



ATENEO DE MANILA UNIVERSITY

# Loyola Schools

**UNDERGRADUATE  
BULLETIN OF INFORMATION**  
2014 Edition

# TABLE OF CONTENTS

---

<b>Message from the President</b>	1
<b>Message from the Vice-President for the Loyola Schools</b>	3
<b>The Ateneo Education</b>	5
History of the Ateneo de Manila University and the Loyola Schools	7
Vision and Mission of the Ateneo de Manila University	8
Purposes and Aims of the Loyola Schools	8
Vision of the Loyola Schools	9
Goals of the Loyola Schools	10
Specific Objectives of the Loyola Schools	11
The School of Humanities	11
The John Gokongwei School of Management	11
The School of Science and Engineering	12
The School of Social Sciences	12
The Government of the Loyola Schools	12
University Organizational Chart	15
Loyola Schools Organizational Chart	16
<b>Commitment to Excellence</b>	17
Academic Curriculum	19
Core Curriculum	19
Major Curriculum	19
The School of Humanities	19
The John Gokongwei School of Management	20
The School of Science and Engineering	20
The School of Social Sciences	21
Teaching Excellence	22
Answering the Call to Service	22
Nurturing the Ateneo Spirit	23
<b>Admissions</b>	25
Guidelines for Local Applicants	27
Guidelines for International Applicants	28
Guidelines for Transfer Applicants	30
Ateneo Provincial Testing Centers	32
Ateneo International Testing Centers	33
Scholarships	34
Merit Scholarships	34
Academic Scholarships	34
Athletic Scholarships	34
Financial Aid Grants	34
Credit by Examination Program	36
Advanced Placement Program	36

<b>Student Services</b>	<b>39</b>
Student Welfare Services	42
Registration and Documents Services	42
Guidance and Counseling Services	47
Health Services	48
Food Services	50
Career and Placement Services	52
Student Housing Services	53
Financial Aid Services	55
International Student Assistance	56
Student Emergency Assistance	57
Safety and Security Services	58
Logistics and Equipment Assistance	59
Student Development	60
The Loyola Schools Integrated Ateneo Formation (InAF) Program	60
Campus Ministry Services	63
Student Organizations and Activities	64
Student Government	65
Council of Organizations of the Ateneo	66
Leadership Development Programs	67
Student Publications	68
Sports Development Programs	69
Learning Support Resources	70
Ateneo Art Gallery	72
Merchandising and Commercial Resources	74
<b>Loyola Schools Regulations</b>	<b>75</b>
General Regulations	77
Academic Regulations	78
<b>The Core Curriculum</b>	<b>87</b>
<b>The School of Humanities</b>	<b>99</b>
<i>Academic Degrees, Curricula and Course Offerings</i>	
Department of English	101
Department of Filipino/ <i>Kagawaran ng Filipino</i>	111
Fine Arts Program	123
Department of Interdisciplinary Studies	149
Department of Modern Languages	163
Department of Philosophy	169
Department of Theology	179
<b>The John Gokongwei School of Management</b>	<b>183</b>
<i>Academic Degrees, Curricula and Course Offerings</i>	
Department of Finance and Accounting	195
Department of Leadership and Strategy	203
Department of Marketing and Law	215
Department of Quantitative Methods and Information Technology	223

<b>The School of Science and Engineering</b>	235
<i>Academic Degrees, Curricula and Course Offerings</i>	
Science and Society	237
Department of Biology	239
Department of Chemistry	253
Department of Electronics, Computer, and Communications Engineering	275
Department of Environmental Science	291
Health Sciences Program	297
Department of Information Systems and Computer Science	303
Department of Mathematics	323
Department of Physics	337
<b>The School of Social Sciences</b>	353
<i>Academic Degrees, Curricula and Course Offerings</i>	
Chinese Studies Program	355
Department of Communication	367
Developmental Studies Program	381
Department of Economics	391
Department of Education	403
European Studies Program	407
Department of History	415
Japanese Studies Program	427
Department of Political Science	433
Department of Psychology	453
Department of Sociology and Anthropology	461
<b>The Physical Education Program</b>	473
<i>Course Offerings</i>	476
<b>Song for Mary</b>	481
<b>Campus Map</b>	483





## **MESSAGE FROM THE PRESIDENT Ateneo de Manila University**

On behalf of the Ateneo de Manila University community, I would like to welcome you to the Loyola Schools.

In this Undergraduate Bulletin of Information, you will find all the information about the services of the Ateneo de Manila and the Loyola Schools that you will need to make your studies and work productive.

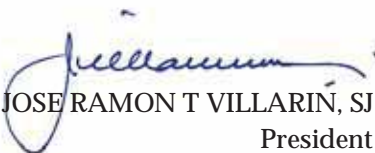
There is also a brief history of the University, its vision and mission, and its various “ways of proceeding” in its service of our people. As you spend this important time of your life here at the Ateneo, we hope that you will come to understand, appreciate, and share fully in the mission that is the Ateneo de Manila.

We take pride in the excellent quality of our faculty and staff, and in the depth of our academic and formation programs that seek to form the whole person for others.

May this Bulletin of Information be your guide in your journey of formation here at the Ateneo de Manila.

With my best wishes, I remain

Very truly yours,



JOSE RAMON T VILLARIN, SJ  
President



## **MESSAGE FROM THE VICE PRESIDENT FOR THE LOYOLA SCHOOLS**



More than one hundred fifty years after the establishment of the school that would become the Ateneo de Manila University, the Loyola Schools remains committed to the same tradition of excellence and service inspired by the values of St. Ignatius of Loyola and the Society of Jesus. In keeping with the times, this tradition has now been redefined in the context of global competitiveness, a uniquely Filipino and Asian perspective, and transformative leadership.

Our undergraduate courses and programs are designed to mold you, our undergraduate students, into outstanding professionals who are not only capable of leading, but also committed to serving. We hope that by the time you graduate, you would have been formed into a leader who will contribute to development in your chosen field as well as positive transformation in society.

This Undergraduate Bulletin of Information serves as your guide through the different facets of undergraduate education in the Loyola Schools, from admission processes and tuition scholarships, to curricula and course descriptions. It is also an invitation to engage in the vision and mission of the university.

We invite you to join us in our journey. Welcome to the Loyola Schools!

A handwritten signature in black ink, appearing to read 'JP Vergara', followed by a long horizontal line.

JOHN PAUL C. VERGARA, Ph.D.  
Vice President for the Loyola Schools





*the*  
**ATENEO**  
**EDUCATION**



## **HISTORY OF THE ATENEO DE MANILA UNIVERSITY AND THE LOYOLA SCHOOLS**

The Ateneo de Manila University traces its roots to 1859 when, at the request of the City of Manila, the Jesuits took over the Escuela Municipal in Intramuros, the walled city of Manila. A primary school originally intended for the sons of Spaniards, the Escuela Municipal was opened by the Jesuits to native Filipinos as well. In 1865, the Jesuits received government approval to add a five-year program leading to the degree of Bachelor of Arts. In keeping with its new academic status, the school was renamed the Ateneo Municipal de Manila. Among the graduates in those early decades was Jose Protacio Rizal (A.B. 1877).

With the withdrawal of city subsidy in 1901, the Ateneo became a private institution, dropping the word “Municipal” from its official name. In 1921, the American Jesuits of the Maryland-New York Province replaced the Spanish Jesuits as teachers and administrators of the Ateneo.

The Intramuros fire of 1932 completely destroyed the Ateneo buildings, forcing the school to move to a new location on Padre Faura Street, Ermita. During the battle for the liberation of Manila, the Padre Faura complex of buildings was razed. Temporary structures were quickly built, but in 1952, the Ateneo moved to its present spacious campus in Loyola Heights, Quezon City.

In 1958, the Society of Jesus in the Philippines was raised to the status of a full province. Administration of the Ateneo passed from the New York to the Philippine Province of the Society of Jesus, and shortly after, the first Filipino Rector/President of the Ateneo was named. Since the growth of the Ateneo demanded a new status, the school obtained its charter as a university in 1959.

Today the Ateneo de Manila University comprises the following units of higher education: the School of Humanities (SOH), the John Gokongwei School of Management (JGSOM), the School of Science and Engineering (SOSE), and the School of Social Sciences (SOSS), collectively known as the Loyola Schools (LS); the Ateneo Graduate School of Business (AGSB), the Ateneo Law School (ALS), the Ateneo School of Government (ASOG), and the School of Medicine and Public Health (ASMPH), collectively known as the Ateneo Professional Schools. In addition, like most Philippine universities, The Ateneo de Manila has a high school, a junior high school and a grade school. The LS, the basic education units, and some offices of the ASOG are located on the Loyola Heights campus, along Katipunan Avenue, Quezon City. The AGBS, ALS, and ASOG are on the Rockwell campus, Makati City. Finally, the ASMPH is housed in the Don Eugenio Lopez, Sr. Medical Complex, Ortigas Avenue, Pasig City.

A number of centers are part of the Loyola Schools. These are the following:

- Ateneo Center for Asian Studies (ACAS)
- Ateneo Center for Economic Research & Development (ACERD)
- Ateneo Center for English Language Teaching (ACELT)
- Ateneo Center for Organization Research & Development (Ateneo CORD)
- Ateneo Center for Social Entrepreneurship (ACSent)
- Ateneo Innovation Center (AIC)
- Ateneo Institute for Literary Arts & Practices (AILAP)
- Ateneo Java Wireless Competency Center (AJWCC)
- Ateneo Language Learning Center (ALLC)
- Ateneo Ricardo Leong Center for Chinese Studies (ARLCCS)
- Ateneo Teacher Center (ATC)

Eugenio Lopez, Jr. Center for Multimedia Communication at the ADMU  
Fr. Jaime C. Bulatao Center for Psychology Services (Bulatao Center)  
Institute of Philippine Culture (IPC)  
JGSOM Business Resource Center (JGSOM BRC)  
JGSOM Family Business Development Center (JGSOM FBDC)  
Konrad Adenauer Center for Journalism at the ADMU (ACFJ)

## **VISION AND MISSION OF THE ATENEO DE MANILA UNIVERSITY**

As a **University**, the Ateneo de Manila seeks to preserve, extend, and communicate truth and apply it to human development and the preservation of the environment.

As a **Filipino University**, the Ateneo de Manila seeks to identify and enrich Philippine culture and make it its own. Through the education of the whole person and the formation of needed professionals, and through various corporate activities, the University aims to contribute to the development goals of the nation.

As a **Catholic University**, the Ateneo de Manila seeks to form persons who, following the teachings and example of Christ, will devote their lives to the service of others and, through the promotion of justice, serve especially those who are most in need of help, the poor and the powerless. Loyal to the teachings of the Catholic Church, the University seeks to serve the Faith and to interpret its teachings to modern Philippine society.

As a **Jesuit University**, the Ateneo de Manila seeks the goals of Jesuit liberal education through the harmonious development of moral and intellectual virtues. Imbued with the Ignatian spirit, the University aims to lead its students to see God in all things and to strive for the greater glory of God and the greater service of mankind.

The University seeks all these, as an academic community, through the exercise of the functions proper to a university, that is, through teaching, research, and service to the community.

## **THE STRATEGIC GOALS OF THE ATENEO DE MANILA UNIVERSITY**

### **Mission and Identity**

- Strengthen Ignatian spiritual formation
- Advance academic excellence in our learned ministry
- Deepen social and cultural involvement
- Enrich Sense of Global Citizenship

### **Nation Building**

- Defeat poverty
- Reform governance and politics
- Cultivate love of country

### **Environment & Development**

- Mainstream sustainable development
- Reduce disaster risk due to climate and other geo-hazards
- Build a sustainable campus

## PURPOSES AND AIMS OF THE LOYOLA SCHOOLS

The Loyola Schools seeks to achieve in an eminent way the mission statement of the Ateneo de Manila University.

The Loyola Schools is concerned primarily, though not exclusively, with the pursuit of these goals through the imparting of a liberal education. It seeks to develop in its students the basic liberal arts of thinking and communicating thought, and to bring them into contact with all that is good in their distinctive Filipino heritage, and indeed, in the cultural heritage of the human race.

At the same time, the Loyola Schools introduces the students to fields of specialization in which they pursue, in greater detail and with greater attention, one particular area of knowledge suited to their individual talents and goals. Through a program of truly co-curricular activities, it seeks, both on and off campus, to make its students aware of the needs of the nation, especially of the underprivileged, and to help them recognize their potential power to transform Philippine society. It thus seeks to encourage its students to strive courageously towards a more just and equitable world.

The Loyola Schools seeks to build an intellectual tradition within the specific context of the developing nation, wherein the principal problem is the concentration of wealth, power, and access to quality education and public services within a small segment of the population, with the vast majority deprived of the material and spiritual resources necessary for human development. It, thus, seeks to couple the traditional Jesuit educational objective of academic excellence with a sense of service and justice today demanded by our faith.

The Loyola Schools, through its Graduate Programs, seeks to further the purposes and aims of the University by imparting to its students a high degree of competence in research or professional practice in one of the academic disciplines. It has a special concern for the formation of educators who will contribute to excellence in the Philippine educational system, and for the formation of scientists, researchers, professionals, creative artists, writers, and others, who will contribute to the development of Philippine society.

## VISION OF THE LOYOLA SCHOOLS

The Ateneo Loyola Schools is a Filipino, Catholic, and Jesuit center of excellence of higher learning that is globally competitive while Asian in perspective, a community that transforms society through its research and creative work, its leadership in service to others and for the environment, and its formation of persons-for-others.

**On being a Filipino University:** As a university, we actively participate in the discussion of what it is to be Filipino and imbue members of our community with a deep sense of what it is to be Filipino. We develop leaders for the nation and as a community, use our competencies for the service of the nation.

**On being a Catholic University:** The daily life of our community is animated by faith informed by the person of Christ and Catholic Tradition. We help our community to see how their faith can be lived out in daily life/work and reflect on our Catholic identity as a university.

**On being a Jesuit University:** Motivated by Ignatian spirituality, our community engages the world in the belief that we can find God in all things. We desire and help our students to become men and women for others who work towards a more just and humane world. We strive to grow in freedom, discernment, and responsible action.

**On being a Center of Excellence:** As an outstanding academic institution, we distinguish ourselves and demonstrate leadership through our innovative research and creative work, outstanding teaching, meaningful learning outcomes, and positive impact on communities that we serve.

**On being globally competitive:** Our output and quality standards are comparable to internationally recognized Higher Education Institutions in our chosen fields of expertise and we are internationally recognized as such. We are globally networked in both academic and professional fields and give our students global perspective.

**On being Asian in perspective:** The LS sees itself and its work through a regional perspective. Even as LS engages Philippine society, it attends to the concerns of the region and participates in the articulation of Asian identity and in placing Asia on the agenda of global fora.

**On being a community that transforms:** Our way of proceeding is characterized by critical thinking and discernment, dialogue and trust, engagement and creativity. We nurture and care for the members of this community. Our values include excellence and service, *magis* and *cura personalis*, professionalism and spiritual maturity.

**On research and creative work:** Scholarly work in the LS generates and communicates new knowledge, understanding, perspectives, forms and expressions. Our body of work influences or informs policy, mindsets, and identity, and/or contributes to the advancement of the field.

**On leadership in service:** The LS takes the lead in initiating and accomplishing transformative change in society, helping to bridge the competitiveness and poverty gaps, and addressing environmental concerns. This service takes the form of civic work, advocacy, or the practice of our respective professions.

**On the formation of persons-for-others:** Our goal is the formation of the total person, helping all members of the LS community to grow in spiritual maturity, academic excellence, social involvement, cultural rootedness, and emotional maturity, as well as in their ability to use their skills and talents in the service of others.

## GOALS OF THE LOYOLA SCHOOLS

Education that is transformative, globally competitive, and Asian in perspective:

- **Curricula and Programs:** Our academic and non-academic formation programs are responsive to Philippine/ Asian/ global realities.
- **Student Profile:** Our students develop spiritual, emotional, and professional maturity that includes dimensions of faith, integrity, service, and love of country.
- **Faculty:** Our faculty members live the *magis* and *cura personalis*, and reflect, serve, and lead in their teaching, scholarly work, and outreach.
- **Instruction:** Our faculty and students exhibit growth in their professional and personal lives as manifested in their leadership, knowledge, competence, creativity, and critical thinking.
- **Student Services and Administrative Support:** Our student services are responsive, available, and accessible.
- **Facilities:** We have world-class facilities and our services are constantly improved.

Knowledge and outreach that make a difference:

- **Scholarly Work:** We generate research and innovation that contributes to the nation's development and makes a difference in the lives of the marginalized.
- **Outreach and Extension Work:** Our outreach/formation work has an impact on the communities as seen through improvements in the performance of its members.

## **SPECIFIC OBJECTIVES OF THE LOYOLA SCHOOLS**

The Loyola Schools is the tertiary level school unit of the Ateneo de Manila University that offers undergraduate and graduate degree programs in the Arts and Sciences. It operates under the statutes of the Ateneo de Manila University. It is composed of the School of Humanities, the School of Science and Engineering, the School of Social Sciences, and the John Gokongwei School of Management.

### **The School of Humanities**

The heart of an Ateneo education is the core curriculum largely made up of courses offered by the different departments that make up the School of Humanities.

From their courses in language – Filipino, English, Spanish or another foreign language—they are taught to be fluent on both the written and spoken levels. They are trained to think critically and communicate effectively.

The study of literature starts students on their journey in the creative life. With a multicultural perspective, students deepen their understanding of themselves and their world by reading literary texts—local and global, classical and contemporary.

The courses of philosophy bring students into contact with the primary texts of great philosophers from classical times to the contemporary era. Challenged with personal, social, religious, and ethical questions, students develop habits of philosophical reflection.

Through its courses in theology, they encounter the saving truth, the Word of Life. Immersed in the many sources of faith's living tradition, they develop a thinking faith and are led to respond to the call for moral transformation and spiritual renewal.

Students are also required to take core curriculum courses in history, social sciences, mathematics, and natural sciences. For more detailed information on these courses, please refer to the brochures of the respective Departments and Programs within the School of Humanities as well as in other Loyola Schools.

### **The John Gokongwei School of Management**

The John Gokongwei School of Management (JGSOM) is a regionally recognized center of excellence and leadership in undergraduate business education. We shape our students into business leaders who are equipped to respond to the needs of tomorrow's world.

Young men and women who are global in perspective and interdisciplinary in approach, technically proficient and analytical yet humanistic and people oriented.

Achievers guided by a strong set of core values, eager and able to provide ethical and principle-centered leadership.



Young professionals and entrepreneurs motivated by the spirit of magis or excellence, inflamed by the passion to make a difference, wherever their lives may take them.

We contribute to the development of undergraduate business education in the country by offering innovative management programs that are responsive to the needs of a business community that must operate within a fast-changing and technology-driven world:

- Programs that are characterized by a strong liberal-arts core curriculum, coupled with a business curriculum that will give our students a broad-based perspective of the management challenge.
- Programs that combine the rigors of academic learning with experiential learning, to provide a much more student-centered experience.

We forge strategic partnerships and actively collaborate with business organizations and professional associations to influence management practice as well as national policy on business and economic affairs, thereby contributing to national economic development.

## **The School of Science and Engineering**

### **OUR VISION**

The School of Science and Engineering at the Ateneo Loyola Schools is a recognized Southeast Asian center of higher learning with academic leaders engaged in service to the nation and global community through science, technology and innovation.

### **OUR MISSION**

We are a teaching and research community engaged in the formation of scientists and engineers grounded on their Filipino self, high ethical standards, leadership, and who are inspired socially and culturally to advance technologies for sustainability and the betterment of life and environment.

## **The School of Social Sciences**

### **OUR VISION**

The School of Social Sciences, Ateneo de Manila University, is a leading academic institution of the social sciences in Asia and the Pacific that forms individuals who are competent, ethical, and responsive to local and global social realities.

### **OUR MISSION**

The School of Social Sciences, Ateneo de Manila University, through multidisciplinary teaching, research, creative work, and outreach initiatives, equips individuals and communities with perspectives and skills for local, national, and global transformation, in the Jesuit tradition of excellence, service, and the promotion of justice.

## **THE GOVERNMENT OF THE LOYOLA SCHOOLS**

The *Loyola Schools*, namely the School of Humanities, the John Gokongwei School of Management, the School of Science and Engineering, and the School of Social Sciences, operate under the Statutes of the University and the By-Laws of the Loyola Schools, and are subject to the government of the University: the Board of Trustees and the officers of the University Administration of which the President is the Chief Executive.

The ***School Council*** has co-deliberative powers regarding the internal academic policies of the Loyola Schools. Decisions of the Council are subject to approval or revision by the University Board of Trustees in accordance with Philippine Corporation Law.

The ***School Forum*** is the assembly of faculty members and administrators of the Loyola Schools. It meets to present and discuss all significant matters affecting the Loyola Schools before they are deliberated upon by the School Council.

The Vice President for the Loyola Schools and the Deans of the Schools are the principal administrative officers and academic leaders. They are responsible for policy execution, for the enunciation and achievement of the educational goals of the Loyola Schools, and for coordination of the work of the different departments in the Loyola Schools.

Several administrative officers assist the Vice President for the Loyola Schools:

The ***Department Chairpersons/Program Directors*** organize, supervise, and evaluate the curriculum, faculty and personnel, including student majors of the individual departments/programs. Academic advisement, load revisions, and other matters affecting student majors usually require their approval.

The ***Associate Dean for Academic Affairs*** takes care of the academic welfare of graduate and undergraduate students and oversees the implementation of the academic regulations of the school. S/he guides the review of proposals for new courses/programs, and their subsequent evaluation by the Committee on Curriculum.

The ***Associate Dean for Student Affairs*** oversees all non-academic matters concerning student welfare and formation including basic services, external discipline including the enforcement of the non-academic rules of the Loyola Schools, and the cultivation of the Integrated Ateneo Formation Program of the school.

The ***Associate Dean for Research and Creative Work*** is responsible for the promotion of research and creative work in the Loyola Schools, scholarly publications and linkages to scholarly work.

The ***Associate Dean for Graduate Programs*** provides academic support services for graduate students and coordinates with other offices in the recruitment and admission of new graduate students. S/he administers financial and scholarship grants for graduate students and handles other administrative duties pertaining to the Graduate Programs.

The ***School Registrar*** is responsible for the processing, archiving, and security of all student records. S/he supervises scheduling of classes as well as undergraduate and graduate registration. The School Registrar issues all transcripts and transfer credentials to students.

The ***Director of the Office of Admission and Aid*** directs the recruitment and admission of new students to the undergraduate programs and administers the financial and scholarship program for undergraduate students.

The ***Director of the Rizal Library*** is responsible for planning and administering the program of library services for teaching and/or research purposes of the Loyola Schools.

The ***Director of the Loyola Schools Office of Health Services*** oversees the administration of acute care (infirmary) services, health awareness and education programs, risk and resiliency assessment, issue-specific interventions, case management and the Collaborative Anti-Drug Abuse Program.

The *Director of the Loyola Schools Office of Guidance and Counseling* is responsible for facilitating the personal growth and adjustment of students with regard to their personal, academic, emotional, and vocational/career concerns.

The *Director of the Placement and Career Services Office* is primarily responsible for linking the academic world and the world of work, particularly for the graduating students. S/he promotes career opportunities for the general student body and provides several venues for career orientation and job skills workshops.

The *Director of the Office of Student Activities* is the ex-officio moderator of the Sanggunian ng mga Mag-aaral ng Mga Paaralan ng Loyola, the student council of the Loyola Schools. S/he oversees the activities of recognized student organizations in the Loyola Schools.

The *Director of the Office for Social Concern and Involvement* is responsible for providing the Loyola Schools with formation and alternative education programs that contribute toward authentic and humane social transformation. S/he ensures the effective implementation of curricular and non-curricular programs that aim to bring out “the person-for-others” in every Atenean through partnerships with non-governmental organizations, people’s organizations, local government units, government units, and other agencies with the same orientation of concern for the poor.

The *Coordinator for College Athletics* implements the sports programs prepared in collaboration with the University Athletics Director. S/he is responsible for providing athletes with their P.E./NSTP exemptions, insurance claims, scholarship grants, and coordinates all of these matters with all the offices involved.

The *Director of the Residence Halls* is the general supervisor of the Residence Halls, responsible for the over-all management, living conditions, general welfare, and discipline therein.

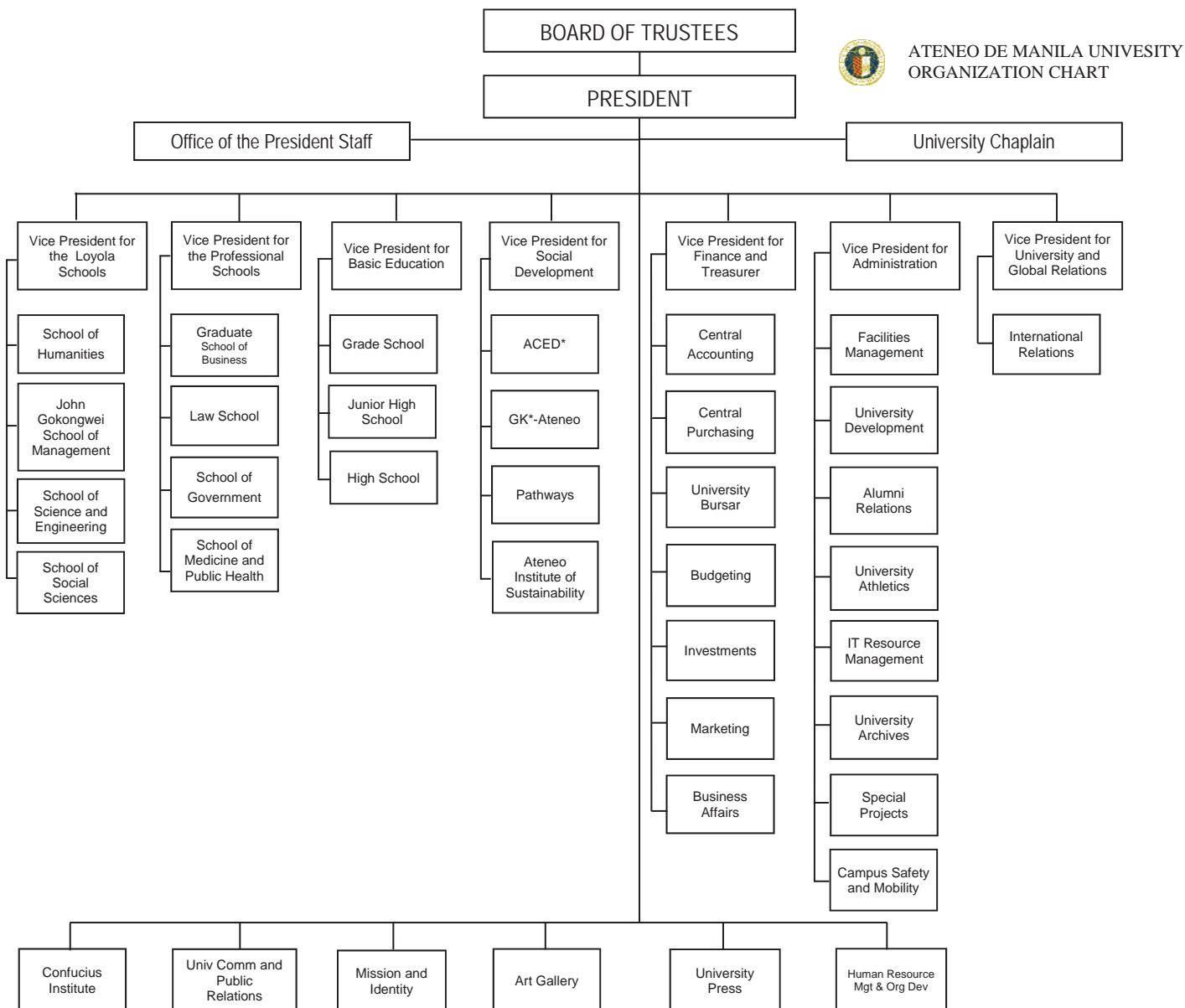
The *Director of the Office of Administrative Services* takes care of the supervision and development of the non-academic personnel of the Loyola Schools and is also in charge of the general supervision of all administrative services involving physical plant and facilities.

The *Director of the Office of Campus Ministry* is responsible for the implementation of the spiritual renewal program for the members of the Loyola Schools community and all the services therein including all student retreats, recollections and all liturgical matters. S/he also takes charge of the Loyola Schools chapel.

The *Director of the Loyola Schools Bookstore* oversees the operation and management of the Loyola Schools Bookstore as the main destination of the entire LS Community to avail of a variety of Ateneo products while promoting student entrepreneurship and updating of available publications in the bookstore.

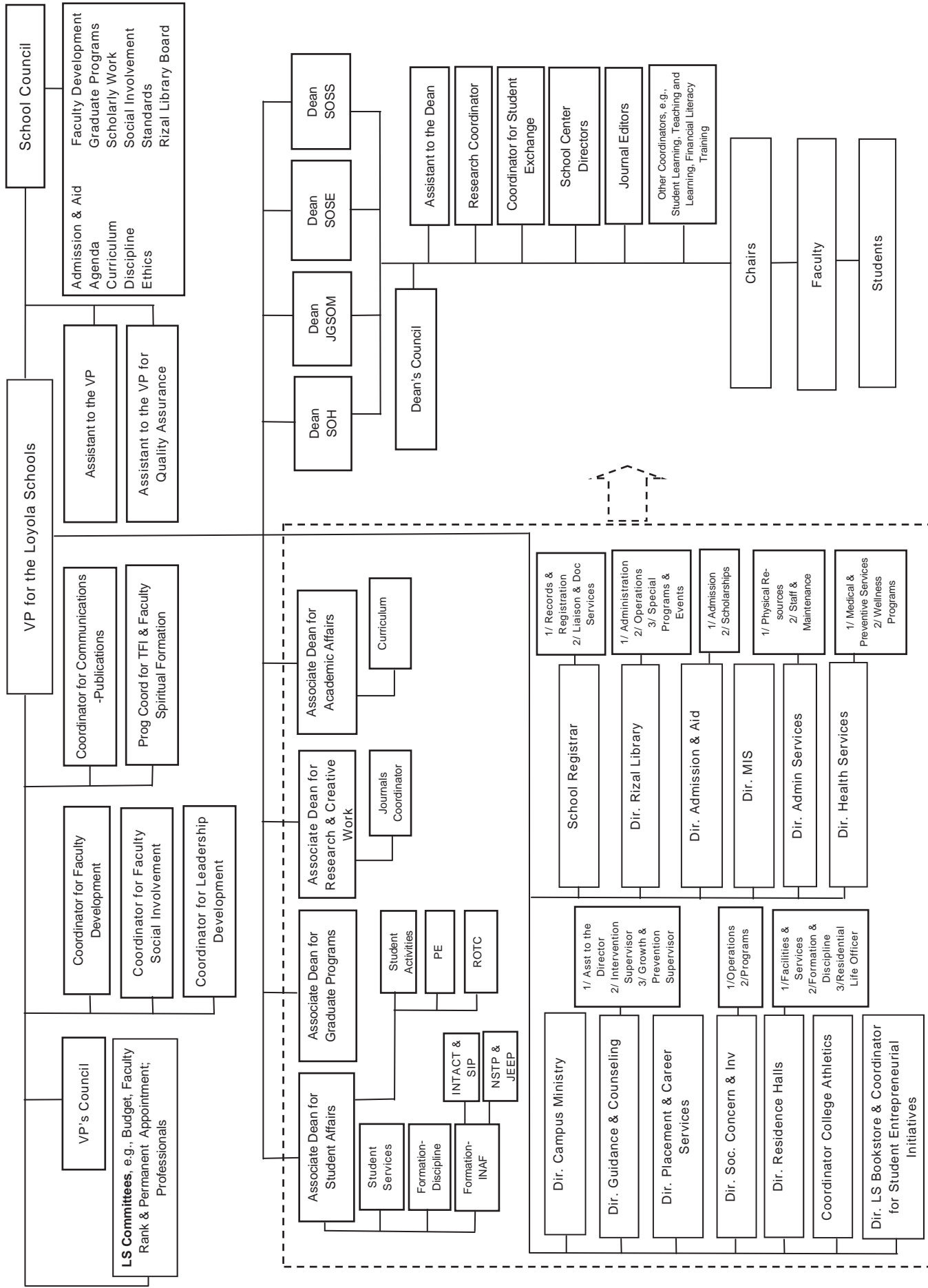
The *Director of the Office of Management Information Systems* oversees the development, implementation, and maintenance of the information systems of the Loyola Schools.

The *Student Affairs Team* is made up of the heads of the offices that directly pertain to the welfare of and services for students, namely: the Director of the Loyola Schools Guidance Office, the Director of the Placement and Career Services Office, the Director of the Office of Student Activities, the Director of the office for Social Concern and Involvement, the Coordinator for College Athletics, and the Director of the Residence Halls.



\*ACED– Ateneo Center for Educational Development; GK-Gawad-Kalinga

September 2014



ORGANIZATION CHART OF THE LOYOLA SCHOOLS

**COMMITMENT**  
*to* **EXCELLENCE**



# COMMITMENT TO EXCELLENCE

## Academic Curriculum

In line with the University's over-arching vision and mission, the Loyola Schools offers academic programs which have two components: the *core curriculum* and the *major curriculum*. The *core curriculum*, which is essentially the same for all students, constitutes an integrated program that the Ateneo conceives to be a truly liberal education. The major curriculum comprises subjects in a wide range of fields of specialization that are carefully selected and regularly reviewed and updated to provide the student with the best preparation for the chosen career.

## Core Curriculum

The Loyola Schools is particularly proud of its *core curriculum*, the primary instrument of formation through which the Ateneo spirit of excellence and service are articulated and passed on to students. It consists of 24 units of courses in Philosophy and Theology, 24 units of Language and Literature courses, 17 to 31 units of Mathematics and Science, 21 units of Social Sciences and History courses, and 6 units of free electives.

Through the *core curriculum*, students are brought to understand the major ideas and methods of inquiry of the disciplines that comprise their intellectual heritage, as well as the breadth and diversity of human knowledge. It stresses interdisciplinarity by communicating how the principal disciplines are related to each other and how different disciplines bring distinctive perspectives to the same issue or problem.

The core curriculum reflects the general goal of developing men and women who are academically competent as well as deeply rooted in values. This tradition of excellence in both academics and service – *eloquentia, sapientia, et humanitas* – is the mark of Ateneo education.

## Major Curriculum

The Loyola Schools offers a wide range of fields of specialization in the arts, sciences, and management through the major curricula. Each major curriculum consists of a sequence of courses that provide a strong program of training in the area of specialization in which the student wishes to major. Usually, the field of concentration will involve introductory courses in either the freshman or sophomore year. These first and second year courses, however, are kept at a minimum in order to allow flexibility so that the student can shift to another major with the least loss of time and units. The academic programs that offer the major curricula are:

### SCHOOL OF HUMANITIES

#### DEPARTMENT OF ENGLISH

*Bachelor of Arts in Literature (English)*

#### DEPARTMENT OF FILIPINO

*Bachelor of Arts in Literature (Filipino)*

*Bachelor of Arts/Master of Arts in Literature (Filipino)*



## **FINE ARTS PROGRAM**

*Bachelor of Fine Arts, major in Art Management*

*Bachelor of Fine Arts, major in Creative Writing*

*Bachelor of Fine Arts, major in Information Design*

*Bachelor of Fine Arts, major in Theater Arts*

## **DEPARTMENT OF INTERDISCIPLINARY STUDIES**

*Bachelor of Arts, major in Humanities*

*Bachelor of Arts, major in Interdisciplinary Studies*

## **DEPARTMENT OF PHILOSOPHY**

*Bachelor of Arts, major in Philosophy*

## **JOHN GOKONGWEI SCHOOL OF MANAGEMENT**

*Bachelor of Science in Information Technology Entrepreneurship*

*Bachelor of Science in Management*

*Bachelor of Science in Management (Honors Program)*

*Bachelor of Science in Management Engineering*

*Bachelor of Science in Management of Applied Chemistry*

*Bachelor of Science in Management, major in Communications Technology Management*

*Bachelor of Science in Management, major in Legal Management*

## **SCHOOL OF SCIENCE AND ENGINEERING**

### **DEPARTMENT OF BIOLOGY**

*Bachelor of Science in Biology*

*Bachelor of Science in Life Sciences*

### **DEPARTMENT OF CHEMISTRY**

*Bachelor of Science in Chemistry*

*Bachelor of Science in Chemistry with Materials Science and Engineering*

*Bachelor of Science/Master of Science in Chemistry*

### **DEPARTMENT OF ELECTRONICS, COMPUTER, AND COMMUNICATIONS ENGINEERING**

*Bachelor of Science in Computer Engineering*

*Bachelor of Science in Electronics Engineering*

### **DEPARTMENT OF ENVIRONMENTAL SCIENCE**

*Bachelor of Science in Environmental Science*

#### HEALTH SCIENCES PROGRAM

*Bachelor of Science in Health Sciences*

#### DEPARTMENT OF INFORMATION SYSTEMS AND COMPUTER SCIENCE

*Bachelor of Science in Computer Science*

*Bachelor of Science/Master of Science in Computer Science*

*Bachelor of Science in Management Information Systems*

*Bachelor of Science in Management Information Systems/Master of Science in Computer Science*

#### DEPARTMENT OF MATHEMATICS

*Bachelor of Science in Mathematics*

*Bachelor of Science/Master of Applied Mathematics, major in Mathematical Finance*

#### DEPARTMENT OF PHYSICS

*Bachelor of Science in Physics*

*Bachelor of Science in Applied Physics (Instrumentation Track or Materials Track)*

*Bachelor of Science in Applied Physics with Materials Science and Engineering*

*Bachelor of Science/Master of Science in Physics*

#### **SCHOOL OF SOCIAL SCIENCES**

##### CHINESE STUDIES PROGRAM

*Bachelor of Arts, major in Chinese Studies*

##### DEPARTMENT OF COMMUNICATION

*Bachelor of Arts, major in Communication*

##### DEVELOPMENT STUDIES PROGRAM

*Bachelor of Arts, major in Development Studies*

##### DEPARTMENT OF ECONOMICS

*Bachelor of Arts, major in Economics (Honors Program)*

*Bachelor of Arts, major in Economics*

*Bachelor of Arts, major in Management Economics*

##### EUROPEAN STUDIES PROGRAM

*Bachelor of Arts, major in European Studies*

##### DEPARTMENT OF HISTORY

*Bachelor of Arts, major in History*

## DEPARTMENT OF POLITICAL SCIENCE

*Bachelor of Arts, major in Political Science*

*Bachelor of Arts, major in Diplomacy and International Relations with Specialization in East and Southeast Asian Studies*

*Bachelor of Arts/Master of Arts in Political Science, major in Global Politics*

*Bachelor of Arts, major in Political Science/Master in Public Management*

## DEPARTMENT OF PSYCHOLOGY

*Bachelor of Arts, major in Psychology*

*Bachelor of Science, major in Psychology*

## DEPARTMENT OF SOCIOLOGY AND ANTHROPOLOGY

*Bachelor of Arts, major in Social Sciences*

## **Teaching Excellence**

### CURA PERSONALIS

*Cura Personalis* - care for the individual person – has always been a guiding principle of Jesuit education since the time of St. Ignatius of Loyola, founder of the Society of Jesus. It enables the kind of superior instruction that makes rigorous demands on students while attending to individual characteristics, learning patterns, and needs. In this spirit, the programs stress student-centered learning, in which teaching and training extend beyond the classroom, and the acquisition of knowledge and skills is achieved through a true and reflective interaction with the world. This thrust encourages students to be proactive and to take responsibility for their own learning and growth.

### RESEARCH

Student-centered learning and professional competence resonate with the Ateneo's commitment to service and excellence. Ateneo teachers have the prime responsibility to keep abreast with developments in their respective fields of expertise, mainly through research activities. Active research also allows the Ateneo to make significant contributions through publications, conferences, consultancies, and policy-making. Students are exposed to research activities through special projects and program requirements. Research and consulting also constitute a major form of outreach, performed by the faculty and administrators of the Ateneo.

## **Answering The Call To Service**

The Loyola Schools' Integrated Ateneo Formation (InAF) Program aims to form persons-for-and-with-others who will contribute meaningfully to the transformation of Philippine society as servant-leaders engaged in various fields of endeavor.

In line with the formation of the whole person characteristic of Jesuit education, the InAF program seeks to provide students with opportunities that can help develop and integrate the personal, academic, socio-cultural, and spiritual dimensions that comprise each student's person.

In forming students to be professionals-for-and-with-others, the InAF program seeks to develop graduates who are: able to apply their academic competence and training in the service of nation building; conscious of their responsibilities as global citizens; guided by Ignatian discernment and rooted in a personal relationship with God; strongly oriented to faith and justice; and critically rooted in their culture.

To achieve the abovementioned goals, all undergraduate students of the Loyola Schools undergo four programs as part of their holistic formation—the Introduction to Ateneo Culture and Traditions (InTACT), the National Service Training Program–Preparatory Leadership Undertaking for Sophomores (NSTP-PLUS), the Junior Engagement Program (JEEP), and the Senior Integration Program (SIP). These programs are supervised by the Office of the Associate Dean for Student Affairs and involve the following offices: the Office of Campus Ministry, the Office of Guidance and Counseling, the Office of Placement and Career Services, the Office for Social Concern and Involvement, and the Office of Student Activities.

## **Nurturing The Ateneo Spirit**

The Ateneo believes in the total development of men and women for others. It is with this conviction, along with the principle that learning does not only occur in the classroom, that the Ateneo invests equal energy in the encouragement and development of student organizations. Student organizations are regarded as partners in the promotion of the Ateneo values of academic excellence and the pursuit of the truth, social justice and solidarity, cultural rootedness and artistic development, and spiritual maturity and holistic formation. The array of student activities caters to the wide spectrum of student interests.

Cultural groups enable students to develop their talents, as well as gain a deeper understanding of local and foreign cultures. The *Ateneo College Glee Club* has won numerous accolades for its performances locally and internationally. *Tanghalang Ateneo* and *Entablado* are some of the theater groups that have received national acclaim.

Business groups such as *AIESEC*, *Ateneo Management Association* (AMA), *Management Engineering Association* (MEA), and the *Ateneo Junior Marketing Association* (AJMA) organize activities to mold competent managers and entrepreneurs with a social responsibility, capable of catapulting industries to greater heights in the future.

Organizations like the *Ateneo Catechetical Instruction League* (ACIL), *Ateneo Student Catholic Action* (AtSCA), *Ateneo Christian Life Community* (ACLC), *Tugon*, *Musmos*, and *Kythe* provide assistance to various communities and groups, and in the process, help students appreciate the complex and interrelated issues of different sectors as seen through urban poverty, the plight of street children, cancer stricken youth, and other vulnerable sectors.

Science and technology organizations such as the *Ateneo Chemistry Society*, *Computer Society of the Ateneo* and the *Ateneo Mathematical Society* organize symposia and talks to learn about theoretical developments and practical applications in specific fields of inquiry. They also participate in national contests, set up exhibits and schedule on-campus tutorials to share knowledge with others.

Students join sports and varsity teams such as basketball, football, track and field, volleyball, taekwondo, fencing, shooting, judo, badminton, lawn tennis, bowling, golf, and arnis. Athletes

learn the virtues of teamwork and discipline while engaging in friendly competition with teams from other universities. It is through these competitions that the school spirit is expressed.

**ADMISSIONS**



# ADMISSIONS

Admission to the Loyola Schools is open to all qualified young men and women. Admission is determined by the applicant's fitness and preparation for the college programs, ability to contribute toward the enrichment of the undergraduate school community, and potential to be of service to one's fellowmen within the context of national development.

The Committee on Admission and Aid is responsible for selecting the new members of the student body. It bases its decisions principally on the results of the Ateneo College Entrance Test, on past academic performance, on the recommendations of teachers, and on information written down on the application form.

## GUIDELINES FOR LOCAL APPLICANTS

Applicants living and/or studying within the Philippines are considered local applicants.

### APPLICATION PROCESS

#### 1. Securing Application Kit

Applicants may secure the application form from the Office of Admission and Aid, G/F Kostka Hall, Ateneo de Manila University from mid-June to mid-August or may download the application form at <http://www.ateneo.edu/ls/undergraduate-programs>.

Applicants may also proceed to their high school guidance office, or the nearest Provincial Testing Center to secure an application kit.

The application kit should contain the following:

- Application form (4 pages)
- Secondary School Record and Principal's Recommendation Form
- Recommendation Form 1
- Recommendation Form 2
- Ateneo College Entrance Test (ACET) Exam Permit
- Acknowledgment Slip
- Scholarship/Financial Aid Questionnaire (if applying for scholarship)

NOTE: The application and testing fee for applicants from local schools in Php500.

#### 2. Filling out the Application Form

- a. Fill-out the application form carefully by printing (using ink) or typing all the information requested. Write N/A if the information is not applicable.
- b. Omissions can delay processing of application.
- c. Only application forms correctly and completely filled out will be accepted and processed.



### 3. Submission of Requirements

#### a. Submit all the requirements listed below:

- Application Form (4 pages)
- **Sealed** Secondary School Record and Principal's Recommendation Form
- **Two (2) sealed** Recommendation Forms
- Personal Essay
- Acknowledgment Slip
- Scholarship/Financial Aid Questionnaire (if applicable)
- Ateneo College Entrance Test (ACET) Exam Permit

#### b. Submit all requirements to the Office of Admission and Aid or to the Provincial Testing Center. The Ateneo College Entrance Test (ACET) will be taken at the place (or testing center) where the application form is submitted.

### 4. Registering for the ACET

Upon submission of complete requirements, applicants are registered for the Ateneo College Entrance Test (ACET) at the Office of Admission and Aid or at the nearest testing center.

### 5. Taking the ACET

The Ateneo College Entrance Test is a test requirement for admission to the undergraduate program of the Loyola Schools of the Ateneo de Manila University. This half-day test covers the areas of Mathematics, English, and General Intelligence.

### 6. Application Decisions

Decision letters will be mailed directly to the applicant.

## GUIDELINES FOR INTERNATIONAL APPLICANTS

Applicants living and/or studying outside the Philippines are considered international applicants.

### A. APPLICATION PROCESS

#### 1. Acquisition of Application Forms

Applicants may secure the application form from the Office of Admission and Aid, G/F Kostka Hall, Ateneo de Manila University from mid-June to mid-August or may download the application form at <http://www.ateneo.edu/ls/undergraduate-programs>. In downloading the Ateneo application kit, please take note of the following:

- a. Print the Ateneo application kit on A4 sized bond paper (8.27" x 11.69").
- b. Make sure to print all required forms listed below:
  - Application Form (4 pages)
  - Secondary School Record and Principal's Recommendation Form

- Recommendation Form 1
- Recommendation Form 2
- ACET Exam Permit
- Acknowledgment Slip

Those who wish to apply for scholarship must ask for or download a Scholarship / Financial Aid Questionnaire from the website.

## 2. Filling out the Application Form

Fill-out the application form carefully by printing (using ink) or typing all the information requested.

## 3. Submission of Requirements

### a. Submit all the requirements listed below:

- Application Form (4 pages)
- **Sealed** Secondary School Record and Principal's Recommendation Form
- **Two (2) sealed** Recommendation Forms
- Personal Essay
- Acknowledgment Slip
- ACET Exam Permit (if taking the ACET) **or** SAT1 Results (if replacing the ACET w/ SAT1)
- School Profile

### b. Submit all requirements to the Office of Admission and Aid or to the nearest International Testing Center. The Ateneo College Entrance Test (ACET) will be taken at the place (or testing center) where the application form is submitted.

### c. International applicants who downloaded the application form must enclose the application fee payment. The following is the payment schedule for easy reference:

International applicants except applicants from United Arab Emirates, Qatar and Saudi Arabia	US\$50 or P2,800
Applicants taking the ACET in the United Arab Emirates, Qatar and Saudi Arabia	US\$100
Applicants from the Middle East taking the SAT 1 in lieu of the ACET	US\$50

Payments (cash or cheque) must be in good condition (i.e. without creases, torn edges and pen marking).

International cheques must be from a major US bank or its affiliated local banks. Please make cheque payable to "Ateneo de Manila University." **The application fee is non-refundable.**

### d. International applicants may opt to courier their application requirements through this address: Office of Admission and Aid, G/F Kostka Hall, Ateneo de Manila University, Katipunan Avenue, Loyola Heights, 1108 Quezon City, Philippines

4. ACET Registration and Taking the ACET *(for those applying through the ACET option only)*

Upon submission of complete requirements, applicants are registered for the Ateneo College Entrance Test (ACET) at the Office of Admission and Aid or at the nearest testing center.

The Ateneo College Entrance Test is a test requirement for admission to the undergraduate program of the Loyola Schools of the Ateneo de Manila University. This half-day test covers the areas of Mathematics, English, and General Intelligence.

5. Application Decisions

Decision letters will be mailed directly to the applicant.

## **B. UPON ACCEPTANCE**

To support the internationalization initiatives of the Loyola Schools, an annual fee will be collected upon enrollment from students who are non-Philippine passport holders.

If accepted, international students must inquire at the Ateneo de Manila University Office of the Registrar for assistance on student visa requirements and processing.

As part of the Ateneo de Manila core curriculum, accepted international students are required to take three courses under the Filipino for Non-Filipino Speakers (FNFS) program.

## **GUIDELINES FOR TRANSFER APPLICANTS**

### **A. PRE-REQUISITE**

To be eligible to apply as a transferee, the student must be taking the regular load requirement per semester and must have finished one full school year in the university he/she is currently enrolled in by the time the requirements are submitted.

### **B. APPLICATION PROCESS**

1. Applicants may secure the application form from the Office of Admission and Aid, G/F Kostka Hall, Ateneo de Manila University from June to December of the application year.

International applicants may download the application form at [ateneo.edu/admissions](http://ateneo.edu/admissions). In downloading the Ateneo application kit, please print the following on A4 sized bond paper (8.27" x 11.69").

- Application Form (4 pages)
- ACET Exam Permit
- Recommendation Form 1
- Acknowledgment Slip
- Recommendation Form 2

2. Register for the ACET in November to December of the same year by submitting the filled out ACET exam permit. (Transfer applicants from the provincial schools may register for the ACET at the Provincial Testing Centers in Cagayan de Oro, Cebu, Davao, Iloilo, Naga, and Zamboanga.)
3. Take the Ateneo College Entrance Test (ACET) in January of the application year.

4. Submit completed forms.

- a. Submit all the requirements listed below to the Office of Admission and Aid by mid-April of the application year:

- Application Form (4 pages) *form with list of classes, class cards or computer print-out of grades*
- Two (2) sealed Recommendation Forms *certified by the school may be submitted; please bring original copies for verification)*
- Acknowledgment Slip
- Personal Essay
- Photocopy of Unofficial Transcript of College Grades covering up to the last completed semester. *(photocopy of registration*
- SAT 1 Results (if replacing the ACET w/ SAT 1) – for International Applicants only
- School Profile

International applicants who downloaded the application form must enclose the application fee payment. The following is the payment schedule for easy reference:

International applicants except applicants from United Arab Emirates, Qatar and Saudi Arabia	US\$50 or P2,800
Applicants taking the ACET in the United Arab Emirates, Qatar and Saudi Arabia	US100
Applicants from the Middle East taking the SAT 1 in lieu of the ACET	US50

Payments (cash or cheque) must be in good condition (i.e. without creases, torn edges and pen marking).

International cheques must be from a major US bank or its affiliated local banks. Please make cheque payable to "Ateneo de Manila University". The application fee is non-refundable.

International applicants may opt to courier their application requirements through this address: Office of Admission and Aid, G/F Kostka Hall, Ateneo de Manila University, Katipunan Avenue, Loyola Heights, 1108 Quezon City, Philippines

5. Application Decisions

Decisions on college transfer applications will be released in May.

## C. UPON ACCEPTANCE

Subjects taken from the previous school are credited upon passing the validation exams given by the departments concerned. The students must do this within the first semester of his / her stay in the Ateneo. Not more than one third of the units earned from the previous college may be validated.

## ATENEO PROVINCIAL TESTING CENTERS

### **Agusan del Norte**

Father Saturnino Urios University  
(form. Urios College)  
San Francisco St.  
Morelos Campus, Libertad, Butuan  
City  
(085) 3424831 loc 614

### **Bulacan**

Immaculate Conception School for  
Boys  
Poblacion  
Malolos City  
(044) 7910288/ 8929971  
(044) 7910288

### **Ilocos Norte**

*Issuance Center Only*  
Holy Spirit Academy of Laoag  
Bonifacio St.  
Laoag City  
(077) 7720391  
(077) 7704165

### **Aklan**

Infant Jesus Academy - Kalibo  
Quezon Ave. cor. F. Quimpo Ave.  
Capitol Subdivision, Kalibo  
(036) 2627523  
(036) 2627523

### **Bulacan**

St. Paul College of Bocaue  
Igulot  
Bocaue  
(044) 7699153  
(044) 7699150

### **Ilocos Sur**

St. Paul College of Ilocos Sur  
2726 Bayubay  
San Vicente  
(077) 7228101  
(077) 6742437

### **Albay**

St. Agnes' Academy  
Rizal St.  
Legazpi City  
(052) 4801682  
(052) 4813322

### **Cagayan**

Cagayan National High School -  
Centro  
Taft St.  
Provincial Road, Tuguegarao City  
(078) 8447768  
(078) 8441232

### **Iloilo**

Ateneo de Iloilo - Sta. Maria Catholic  
School  
Gen. Blanco St.  
Iloilo City  
(033) 3375531  
(033) 3350027

### **Batangas**

St. Bridget College - Batangas  
M.H. del Pilar St.  
Batangas City  
(043) 7021120  
(043) 7221164

### **Camarines Sur**

Ateneo de Naga High School  
J. Phelan Drive, Km. 7 Pacol  
Naga City  
(054) 4737952  
(054) 4732702

### **Isabela**

Centro de Cultura Incorporada  
083 Don Jose Canciller Ave.  
Cauayan City  
(078) 6520314

### **Batangas**

Canossa Academy - Lipa  
San Carlos  
Lipa City  
(043) 7561819/ 1329  
(043) 7561819

### **Cavite**

Statefields School  
National Road Molino III  
Bacoor  
(046) 8723282

### **La Union**

Lorma Colleges Special Science High  
School  
Urbiztondo San Juan  
(072) 7201234/7200345/7200304  
(072) 7201234

### **Benguet**

Baguio City National High School  
Gov. Pack Road  
Baguio City  
(074) 4448380  
(074) 4442645

### **Cebu**

Sacred Heart School - Ateneo de  
Cebu  
H. Abellana St.  
Canduman, Mandaue City  
(032) 3454378 loc. 1228/1222, 4204323  
(032) 3436279

### **Laguna**

Canossa College  
Lakeside Park Subdivision  
San Pablo City  
(049) 5623891  
(049) 5623890

### **Bohol**

Holy Name University  
Janssen Heights  
Dampas District, Tagbilaran City  
(038) 4123823

### **Davao del Sur**

Ateneo de Davao High School  
Acacia St., Juna Subdivision  
Matina, Davao City  
(082) 2992404 to 2405, loc 4302-03  
(082) 2992406

### **Laguna**

Xavier School Nuvali  
W. Conservation Avenue  
Nuvali, Calamba  
(02) 6640143

**Lanao del Norte**

Mindanao State University - Iligan  
Institute of Technology, IDS  
Andres Bonifacio Ave.  
Tibanga, Iligan City  
(063) 2232350  
(063) 2214050; 4921173; 2214056

**Leyte**

Sacred Heart School - Tacloban  
T. Claudio St.  
Tacloban City  
(053) 3417476/ 3212424  
(053) 3253467

**Maguindanao**

Albert Einstein School  
Albert Einstein Road, Rosary  
Heights VII  
Cotabato City  
(064) 3901530

**Misamis Oriental**

Xavier University High School -  
Ateneo de Cagayan  
Corrales Avenue  
Cagayan de Oro City  
0932-8778749

**Negros Occidental**

St. John's Institute  
Capitol Subdivision  
Bacolod City  
(034) 4333773 loc 113  
(034) 4331577

**Nueva Ecija**

College of the Immaculate  
Conception  
Sumacab Este  
Maharlika Highway, Cabanatuan  
City  
(044) 4638101 or 8102 loc 204  
(044) 4637481

**Nueva Vizcaya**

Philippine Science High School -  
Cagayan Valley Campus  
Bgy. Masoc  
Bayombong  
(078) 8080343/0345

**Palawan**

Holy Trinity University  
Quezon St.  
Puerto Princesa City  
(048) 4332061 loc. 205  
(048) 4332161 loc 265

**Pampanga**

Holy Angel University - High School  
Dept.  
1 Holy Angel Ave., Sto. Rosario St.  
Angeles City  
(045) 8888691 to 93 loc 1229 or 1181  
(045) 8882514/ 8881754

**Pangasinan**

Ednas School - Dagupan  
Tapuac District  
Dagupan City  
(075) 5222440/ 5222405/ 5157937  
(075) 5223572

**Quezon**

Sacred Heart College  
1 Merchan St.  
Lucena City  
(042) 7103888 loc. 111  
(042) 3734240

**South Cotabato**

General Santos Hope Christian  
School  
Block 8, Dadiangas Heights  
General Santos City  
(083) 5526468/ 3011813  
(083) 5526468

**Tarlac**

Don Bosco Technical Institute -  
Tarlac  
Sto. Cristo  
Tarlac City  
(045) 9822159 loc 141/ 9825440  
(045) 9825440

**Zambales**

Columban College - Olongapo  
1 Mt. Apo St.  
East Tapinac, Olongapo City  
(047) 2223329 loc 106  
(047) 2227782

**Zamboanga del Sur**

Ateneo de Zamboanga University -  
High School  
Fr. William H. Kreutz, SJ Campus  
Tumaga, Zamboanga City  
(062) 9910871 loc. 3112/3114; 9551001  
(062) 9910870

## ATENEO INTERNATIONAL TESTING CENTERS

**KINGDOM OF SAUDI ARABIA****Jeddah**

Al Dura (Gems) International School  
Aghadeer St. cor Khaybar St.  
Al Azizeyyah, District 7  
Jeddah 21543  
(96612) 6748483

**QATAR****Doha**

Philippine School Doha  
Al Mesilah St.  
Madinat, Khalifa South  
Doha, PO Box 1669  
(974) 44181587  
(974) 44217718

**UNITED ARAB EMIRATES****Dubai**

United International Private School  
Muhaisnah 4, Al Qusais  
Dubai, PO Box 60817  
(971)042543888 ext. 200 or 201  
(971) 042543889

**Abu Dhabi**

Twenty First Century Private  
Academy - Abu Dhabi  
P.O. Box 67986, Muroor Road  
Abu Dhabi  
(9712) 4413077

## SCHOLARSHIPS

### A. MERIT SCHOLARSHIPS

1. The **Ateneo Freshman Merit Scholarship** is an academic distinction awarded yearly to the top forty (40) freshman applicants who have excelled in the Ateneo College Entrance Test, have distinguished themselves in their respective high schools, and who also show great promise for the future. This award includes a full tuition and fees grant for any undergraduate degree of the awardee's choice.
2. The **San Ignacio de Loyola Merit Scholarship** for public high school students is awarded yearly to the top ten (10) freshman applicants from public or state-supported high schools across the country. These students must have distinguished themselves in both academic and co-curricular involvement and more importantly, show the potential to become future leaders and catalysts for national development. This award includes a full tuition and fees grant for any undergraduate degree of the awardee's choice.

### B. ACADEMIC SCHOLARSHIPS

1. The **Loyola Schools Director's List Scholarship** is an academic grant awarded to the top two hundred (200) freshman applicants to the Loyola Schools who have stood out and have done very well in the Ateneo College Entrance Test (ACET), in their academics, as well as in co-curricular activities. For School year 2014-15, each Director's List awardee will be given a P50,000 scholarship grant.
2. The **Fr. Thomas B. Steinbugler, S.J. Academic Scholarship** is an academic grant awarded to Valedictorians and Salutatorians of Jesuit High Schools who are accepted to the Loyola Schools. Upon presentation of a certification from the high school principal, a Valedictorian receives a 100% Tuition and Fees Scholarship while a Salutatorian receives a 50% Tuition and Fees Scholarship.
3. The **Fr. Bienvenido F. Nebres, S.J. Science Academic Scholarship** is an academic grant awarded to the Valedictorians and Salutatorians of science high schools who are accepted to the Loyola Schools in any degree program under the School of Science and Engineering. Upon presentation of a certification from their high school principal, a Valedictorian receives a 100% Tuition and Fees Scholarship while a Salutatorian receives a 50% Tuition and Fees Scholarship.

### C. ATHLETIC SCHOLARSHIPS

Athletic Scholarships are awarded to student-athletes who have excelled in sports and academics. Aside from being financially challenged, applicants must have outstanding athletic ability and must be a recipient of awards in their specific sport. Applicants must complete the Athletic Scholarship Application Form from the University Athletics Office and secure the recommendation of the Ateneo coach and program head for the sport.

## FINANCIAL AID GRANTS

For close to five decades now, the Ateneo College Scholarship Program for deserving but financially challenged students continues to thrive—thanks to the University's unwavering

commitment and the constant support of many generous alumni and other benefactors. For School year 2014-15, 17% of the total college population enjoyed financial support.

Applicants for scholarship must fill out a Scholarship/Financial Aid Questionnaire. This form must be secured and submitted together with the Application for Admission form. Application for scholarship does not influence in any way the decision concerning the acceptance into the college. Scholarship applicants, therefore, should not wait for their application for admission before securing or submitting a scholarship application form.

With limited scholarship slots each year, the Committee on Admission and Aid makes its decision on each application after carefully examining the results of the Ateneo College Entrance Test (ACET) together with the academic record of the applicant, the family's finances and school recommendations.

### **Criteria for Selection**

Financial Aid grantees are selected on the basis of:

- a. financial need as clearly evident in the Scholarship/Financial Aid Questionnaire
- b. intellectual ability and proven consistent academic performance
- c. service to the community and potential for greater service in the future.

### **Types of Grant**

Financial aid takes various forms:

- 25% tuition and fees
- 50% tuition and fees
- 75% tuition and fees
- 100% tuition and fees
- book and/or transportation allowance
- dormitory assistance

### **Program of Study and Tenure of Award**

Scholarships and financial grants are awarded to students in all programs of study in the Loyola Schools. The grant is given for a year only but may be renewed upon evaluation of the student's continued financial need and above satisfactory academic performance. It covers Summer terms and introductory courses if these are required.

### **Government and Other Scholarships**

All applicants are encouraged to take qualifying examinations given by various government agencies, private groups, or foundations, specifically, DOST-SEI and CHED. Awardees may come to the Ateneo under such scholarships.

For additional information, please read the FAQ-Scholarships section in the Ateneo webpage: [ateneo.edu/admissions](http://ateneo.edu/admissions).



## CREDIT BY EXAMINATION PROGRAM

The *Credit by Examination Program (CEP)* refers to the system by which incoming freshmen who feel that they have already sufficiently achieved the learning objectives of a required core course, qualify for exemption from a course by taking and successfully passing a validation exam, which is equivalent to a comprehensive exam in the course.

1. The requirement for passing a CEP exam is the attainment of a score equivalent to a “B” standing for the course in question.
2. A student who passes the validation exam and receives credit for a particular course is exempted from taking the course, but not from the academic unit requirement.
3. Under the advisement of his or her Home Department Chair, the student will choose from the following options, with the goal of maximizing the student’s learning opportunities whether inside or outside the classroom and all choices must be made with the concurrence of the home Department Chair or, in rare cases when there is no agreement, the concurrence of the Associate Dean for Academic Affairs:
  - a. Replace the course with another, more advanced course in the same disciplinary area (similar to APP option)
  - b. Replace the course with either a Major Elective or Free Elective
  - c. Receive an outright waiver of the academic unit requirement by proposing an alternative outside-the-classroom learning activity that he or she would like to pursue (e.g. through a leadership role in some co-curricular activity, or by participating in some community or parish-based activity)
4. Because it is too early for students to know how best to maximize their learning opportunities in their first year, students who are able to successfully participate in the CEP will not be allowed to underload in their first year. Instead, they will be asked to complete their load by taking second year subjects in place of their credited courses. What to do with the “freed up” units will be determined in junior or senior year.

## ADVANCED PLACEMENT PROGRAM

The *Advanced Placement Program (APP)* is given to students who, as a result of a strong secondary education or other forms of formal or non-formal training, have already achieved the learning objectives of particular courses required in the core curriculum.

1. Assessing a student’s qualification for the Advanced Placement is left to the discretion of the core departments concerned. Courses included in the Advanced Placement Program are English 11, Foreign Language and Culture and Filipino 11.
2. The Advanced Placement Program does not exempt the student from a course; the students are asked to replace the course with a more advanced course in the same discipline.
3. This program is designed to help gifted students push further the boundaries of their learning.

### **Basic Courses**

Basic Courses in Freshman Year are given to first year students who need better preparation in English, Math and Filipino.

1. The courses include English 10 (Introduction to College English), Filipino 10 (Basic Filipino), Math 1 (Introduction to College Algebra) and Math 18a/18b (Modern Mathematics I and II for Science Majors) Basic Track.
2. For placement in English and Math basic courses, respective Departments assess the student's performance in the Ateneo College Entrance Test. A standardized diagnostic or Departmental exam will be given within the first few weeks of the first semester to confirm the student's placement in a basic course.
3. The basic courses are part of the college curriculum. The regular courses are then taken at some future time or during summer sessions.

### **PRE-LAW**

Due to the rigorous training and holistic formation that the Ateneo offers, all of the programs under the Loyola Schools may be suitable preparation for students of law.

### **PRE-MED**

In 2004, BS Health Sciences was introduced to provide the seamless, integrated preparation for the professional training in the Ateneo School of Medicine and Public Health, which opened in 2007.

In School Year 2008-2009, the Biology Department of the Ateneo de Manila University undertook a revision of its academic programs. The originally 4-year BS Biology Program was revised to a 5-year program and BS Life Sciences was introduced.

BS Psychology is another course which may be taken by Ateneo students in preparation for medical studies.



# STUDENT SERVICES



## STUDENT SERVICES

The school has the responsibility to cooperate with the family and other social institutions to develop the total personality of the student. Thus, a program of student services, directed and coordinated by a professionally trained staff is an integral part of the Ateneo Loyola Schools' operation. These services are designed to assist the individual student to attain maximum self-realization and become effective in his/her social environment.

**STUDENT SERVICES** refer to the services and programs that pertain to non-academic experiences of students to attain total student development. Non-academic services are two-pronged: those that relate to student welfare and those that relate to student development.

### 1. **Student Welfare Services**

Pertain to basic services and programs needed to ensure student well-being by providing quality, relevant, efficient and effective support and assistance.

### 2. **Student Development**

Services & programs designed for the exploration, enhancement and development of the student's full potential for personal development, leadership and social responsibility through various institutional and/or student initiated activities.

Student services are provided to the students by the Student Affairs Team and its affiliate offices. The Student Affairs team is overseen by the Associate Dean for Student Affairs (ADSA).

The **Office of the Associate Dean for Student Affairs** provides the relevant support services (eg. ID production) and serves as liaison to more specialized offices (eg. the Loyola Schools Health Services) when necessary, and provides opportunities for formation outside the classroom by heading the Integrated Ateneo Formation (InAF) Program and supervising the Office of Student Activities. The ADSA Office also serves as the guardian of the Code of Discipline – seeing to it that students of the Loyola Schools stay true to the values of the Ateneo and grow in responsibility (both personal and social) and moral excellence.

The other offices of the Student Affairs team are the Loyola Schools Office of Guidance and Counseling (LSOGC), the Loyola Schools Office of Campus Ministry (LSOCM), the Loyola Schools Office of Health Services (LSOHS), the Loyola Schools Office of Placement and Career Services (LSOPCS), the Office of Student Activities (OSA), the Office of Social Concern and Involvement (OSCI), the Office of College Athletics and the Residence Halls.

The affiliate offices are the Office of the Associate Dean for Academic Affairs (ADAA), the Office of Admission and Aid (OAA), the Registrar's Office, and the Office of Administrative Services (OAS).

# **I. STUDENT WELFARE SERVICES**

## **REGISTRATION AND DOCUMENT SERVICES**

The **Office of the Registrar** is the central repository of student and curricular information. It is composed of two units – Records and Registration, and Liaison and Document Services – that cohesively offer services related to enrollment and the academic/scholastic records of students. Our market is classified into three main categories – currently enrolled students, alumni and those who left the University without finishing a degree. Primary services are registration, record management, student evaluation, curricular maintenance, and document and liaison services.

### **1. Registration**

- a. Registration is the process that provides the student with an official capacity in the university. The complete registration process involves:
  - i. Enlistment in advised classes
  - ii. Payment of assessed fees
  - iii. ID validation

Students may use services of the Loyola Schools only upon completion of registration. Otherwise they may not borrow books from the library, use parking and internet facilities, join student organizations, participate in graduation exercises, or avail themselves of any other facilities of the Loyola Schools. Most importantly, students may only participate in and receive grades for classes they have officially enrolled in.

- b. Before a student can enroll, he/she must activate his/her AISIS (Ateneo Integrated Student Information System) account by logging on to <http://aisisonline.ateneo.edu>. AISIS will guide the student in the steps for account activation.
- c. Registration/enlistment can be done online or manually.
  - i. Online registration/enlistment is done through <http://aisis.ateneo.edu>. The student can enlist in classes, check class schedules, fix his/her schedules and print his/her assessment form via internet using AISIS.
  - ii. Manual or Regular registration is performed if a student is unable to register online. In most instances, regular registration is done by students who:
    1. Have not activated their AISIS account before the set deadline
    2. Missed their online batching schedule and the free-for-all enlistment time
    3. Failed to enlist online because of technical difficulties
    4. Failed to enlist online because of an existing HOLD ORDER
  - iii. Late registration shall be performed if a student is unable to register during the designated schedule for regular registration.

The student shall proceed to the Office of the Registrar to secure his/her late registration form, then, proceed to the different departments to sign up and secure approval for the courses they intend to take during the semester. The student will return the late registration form to the Office of the Registrar for enlistment and secure an endorsement for assessment and payment of tuition fees and miscellaneous fees.

d. The following must be noted:

- i. Random numbers are systems-generated to determine the order in which students will enlist online for their classes or line up during regular registration.
- ii. Online enlistment is done by batching. Students may enlist only during their enlistment schedule determined by their specified random number.
- iii. Regular registration is also done by batching. Students may enlist during their enlistment schedule determined by their specified random number and their school's ETA. ETA stands for "Expected Time of Arrival" at the designated registration waiting areas. The ETA indicates the estimated earliest time that the random numbers will be served for registration. Students are expected to be at their waiting areas at the specified ETA, regardless of where their number falls in the interval.
- iv. A Hold Order prohibits a student from enrolling/registering. If a student has a hold order, it will appear in his/her AISIS account. All hold orders must be settled before the designated schedule of online registration.
- v. Registration by proxy or representative will be allowed during registration proper with the following requirements to be presented:
  1. Ateneo ID or any ID with picture and signature of the student being proxied
  2. Typewritten or Word-Processed Authorization Letter
  3. Any ID with picture and signature of the Proxy
  4. AISIS Account Password of the student being proxied
- vi. To facilitate the completion of the entire registration process, online payment facilities with the Ateneo's correspondent banks have been made available for tuition payments. The following bank websites can be logged on to for the enrollment of the student accounts and online payment:
  1. [www.bpiexpressonline.com](http://www.bpiexpressonline.com)
  2. [www.bdo.com.ph](http://www.bdo.com.ph)
  3. [www.hsbc.com.ph](http://www.hsbc.com.ph)



## **2. Records Management**

- a. Records management is the efficient and timely implementation of a systematic process for recording, maintaining/updating, monitoring, distributing (when necessary and relevant), and safekeeping student records.
- b. These include, among others and not limited to, personal records (i.e., birth certificate, Alien Certificate of Registration, study permits, visas), academic records (i.e., transcripts of records from previously enrolled schools, transfer credentials, clearance forms, grade reports, application for admission), enrollment records (i.e., registration forms of late registrants). Students must ensure that their records are complete and deposited at the Office of the Registrar. Lacking documents will prevent official status in the Loyola Schools and graduation.
- c. These also include records pertaining to various editions of curricula, course descriptions, commencement programs, government regulations such as CHED memoranda, and others.
- d. The management of records also covers maintaining the integrity of the data contained in the AISIS and the ability to access relevant information when needed.
- e. The information contained in the AISIS and/or in hard copies are the bases for screening the student's eligibility to request for documents such as transcripts of records and certifications.

## **3. Student Evaluation**

- a. Student evaluation is the process that determines and assesses the credentials and monitors the accomplishment of the academic requirements of a student to ensure eligibility to enroll in the next semester and to graduate. However, it must be noted that the student is primarily responsible for ensuring the timely completion of his/her degree. The student must be aware of all specific courses that need to be completed for graduation.
- b. It involves the analysis of the educational history of students, especially those who attended several schools. It also covers the proper sequencing and transfer of credentials and the sufficiency and validity of credentials.
- c. It also includes checking the validation of subjects taken by students in another school to ensure that they are credited for equivalent subjects in the Ateneo Loyola Schools.
- d. It entails the correctness of the curricular versions applicable to each student and the consequent evaluation of the students' Individual Program of Study. This includes the tracking of curricular requirements in the event the student shifts to another degree program, changes concentration, or adds a minor or specialization.

#### **4. Curriculum Maintenance**

- a. Curriculum maintenance is the process that ensures the proper implementation of the students' curricular requirements based on the applicable curricular version to each student.
- b. In a larger spectrum, curricular maintenance also covers curriculum development and processing to ensure compliance to CHED's requirements, i.e., completeness of curriculum documentation to be submitted to CHED.
- c. The scope of curricular matters includes the introduction of new courses and degree programs, the revision of existing degree programs, and the introduction of minors and specializations.

#### **5. Document Services**

- a. Document services cover the following areas:
  - i. Receiving requests;
  - ii. Checking the student's eligibility for the issuance of official documents in terms of status of students, their clearance, hold orders, tuition fee balance, other financial obligations, and other pre-requisite records;
  - iii. The preparation and processing of the document/s requested; and
  - iv. The release of the document/s requested.
- b. Documents can be requested through over-the-counter, email or fax. For reference, our email address is registrar.ls@ateneo.edu and our fax number is (02) 423-6123. To facilitate the request, the requesting party must fill up all the necessary information in the request form, including the purpose of the request. The mailing address and contact number of the entity should also be specified if the document is to be mailed locally or overseas.
- c. Standard document requests include the transcript of records, certifications (i.e., enrollment, graduation, English as a medium of instruction, course description, candidacy for graduation, etc.), English translation of diploma, etc.
- d. The following must be noted:
  - i. Official documents will be processed/released to the student upon settlement of all financial, academic, and documentary liabilities with the school and upon full payment of the documents requested.
  - ii. The claim stub and official receipt must be presented when claiming the requested document/s.
  - iii. Representatives must present an authorization letter with a copy of the student's valid ID with picture and signature and a copy of the representative's valid ID with picture and signature.

- iv. Unclaimed documents beyond 90 days from due date will be destroyed and payments made will be forfeited.

#### **6. Liaison Services**

- a. Liaison services include establishing and/or maintaining business relationships with specific government agencies (i.e., CHED, DFA, BI, etc.) to ensure curricular development and maintenance, certification and authentication of documents, and visa processing.
- b. This specifically includes providing certification and authentication services of documents, particularly, the transcript of records and the certified true copy of the diploma of students/alumni by submitting these documents to CHED, who in turn will forward the same to the Department of Foreign Affairs. The student/alumni will be given a claim stub which will enable them to pick up the CHED/DFA- authenticated documents.
- c. Liaison activities also cover providing student visa and ICard processing services for international students.
  - i. International students must submit all the student visa requirements, including visa fees, at least, 1 month before the expiry of their visas to avoid any penalties.
  - ii. The processing of the ICards can be done after the student visas have been issued.

#### **Contact Information**

Registrar's Office

G/F Social Sciences Building

Tel: 426-6001 loc 5130 (Secretary)

5131 (Request for documents, Graduate)

5132 (Request for documents, Undergraduate)

5134 (Records & Registration)

5139 (Liaison Officer)

Fax: 426-6123

E-mail: registrar@admu.edu.ph

#### **Office Hours**

Monday to Friday      8 AM to 5 PM

Saturdays              8 AM to 12 NN

## GUIDANCE AND COUNSELING SERVICES

The objectives of the Loyola Schools Guidance program are oriented towards student self-realization and total personality development.

The **Loyola Schools Office of Guidance & Counseling (LSOGC)** provides formation and psychological services geared towards the holistic development of the Loyola Schools community. The program aims to equip the students with the necessary tools for self-management in the context of personal, familial and societal realities. It assists in their formation through the developmental stages of self-awareness, self-exploration, self-enhancement, and self-offering.

### SERVICES:

1. **Counseling** – Students, faculty, staff, professionals and alumni may schedule themselves individually or in groups. Counseling services cover academic, career, personal, social and emotional concerns.
2. **Psychological Testing** – Learning styles, social adjustment, decision-making, leadership skills and career-planning are assessed through the use of standardized and projective tests.
3. **Routine Interview** – Information about educational and familial background, psychological test results, and academic performance are updated through yearly interviews designed to help monitor the student's progress vis-à-vis their developmental needs.
4. **Enrichment activities** – A menu of seminar-workshops and group dynamics are readily available to address the common issues and concerns of the students. Among the topics to choose from are Time Management, Maintaining Healthy Relationships, Career Plotting, stress Management, and School Success. Organizations and offices can also request the LSOGC for custom-made modules for specific purposes (eg. team-building, leadership, stress management)
5. **Integrated Ateneo Formation (InAF) Program** – In collaboration with the LS Offices, the LSOGC provides learning and interactive sessions to hone the students personal development. The integration of psychological test results with INAF (InTACT, NSTP-PLUS, JEEP) enables the students to understand and manage their personal traits and tendencies as they hurdle the realities and challenges of life. Its purpose is for students to maximize their strengths and resources, work on their vulnerabilities, and make better life choices.
6. **Career Development Program** – This enables the students to have a better perspective about their chosen course and career, to clarify about their work values, and to formulate a plan of action to achieve their career goals. The LSOGC organizes Shifting Talks and Career Exploration Workshops to address students concern for shifting program concentration.
7. **Consultation and Referrals** – Students, faculty, professionals and staff can refer and consult about how to assist fellow members of the Ateneo community who may be facing difficulties at the present

8. **Recommendations** - Students and alumni can request their counselors for recommendation letters for various purposes, such as graduate studies, study tours, scholarships, and employment.

### **Contact Information**

The Loyola Schools Office of Guidance and Counseling (LSOGC)

2/F Social Sciences Building

Tel: 426-6001 Local 5031/5032

Mobile: +6239209182582

E-mail: [guidance.ls@admu.edu.ph](mailto:guidance.ls@admu.edu.ph)

Web: <http://ls.ateneo.edu> (Administrative Offices, Office of Guidance & Counseling)

### **Office Hours**

Monday to Friday      8 AM to 6 PM

Saturdays              8 AM to 5 PM

## **HEALTH SERVICES**

The ADMU makes professionally trained personnel available to students for varied health care needs. Several facilities are available for student use around campus, such as the Health Development Institute at the Social Development Complex and the Moro Lorenzo Clinic at the Moro Lorenzo Gym.

The care of LS students however, is specifically charged to the **LS Office of Health Services (LSOHS)**, the LS-based health center that attends to their comprehensive health and wellness through its partnership with students, and collaboration with other student-centered offices of the University.

### **SERVICES:**

#### **1. Acute Care Services**

LSOHS provides infirmary services for common presenting health and medical problems (fever, headache, abdominal pain, including common emergencies) that students encounter while in school. Follow-up and referral services are made when necessary. Close coordination with the student's family and their health care provider are also endeavored.

#### **2. Immunization Services**

LSOHS promotes the control and prevention of serious communicable diseases through active immunization. Vaccines for adolescents and young adults are available at affordable costs. The LSOHS health professionals can advise students on the recommended shots they need to receive.

#### **3. Comprehensive Health Assessment**

LSOHS uses the Guidelines for Adolescent Preventive Services (GAPS) during individual encounters with students to assist them in dealing with the critical health issues that concern adolescents and young adults.

#### **4. Clinical Psychology Service**

Trained professionals are available in the LSOHS to provide therapy for specific mental health problems. Case conferences, co-management and referrals are also carried out.

#### **5. Education, Promotion and Advocacy on Health and Wellness**

These activities and initiatives are carried out on every individual encounter in the clinic. LSOHS also conducts trainings and workshops on specific topics. Multi-media use is also maximized to communicate important health messages to students.

#### **6. Collaborative Anti-Drug Abuse Program (CADAP)**

LSOHS is the lead office in the implementation of the school's collaborative anti-drug abuse program. The program includes the Random Drug Testing of students in the spirit of the mandate given to schools by RA 9165 (Comprehensive Dangerous Drugs Act of 2002) to employ every reasonable means to provide a healthy, drug-free environment. Under the CADAP, LSOHS works very closely with the LS Guidance and Counseling Office and the Office of the Associate Dean for Student Affairs to execute the three-pronged approach involving awareness, testing & intervention.

#### **Contact Information**

The LS Office of Health Services (LSOHS) is located at Room 105 of the Social Science Building. During the regular semester, the LSOHS is open from 7 am to 7 pm, Monday to Friday, and 8 am to 4 pm on Saturdays. LSOHS has an extension office that is used for special activities at Room 276 of the same building.

Appointments and inquiries can be made through the contact numbers below.

Tel: 426-6001 Local 5110 (Clinical Services)

Mobile: 0918-944-5997

Fax: (+632) 332-4434

E-mail: [healthservices.ls@ateneo.edu](mailto:healthservices.ls@ateneo.edu)

Web: <http://ls.ateneo.edu/health>

#### ***Auxiliary Health Unit***

Health Alternatives for Total Human Development Institute, Inc. (HEALTHDEV Institute) is a nonstock, non-profit, non-governmental organization within the University premises that students can go to for additional medical treatments and facilities that may not be readily available at the LSHS.

#### **HEALTHDEV Institute**

2/F CCS Building

Social Development Complex

Telephones: Central Office 426-4325, 426-6001 Local 4630

Medical Clinic 426-6001 Local 4663

Dental Clinic 426-6001 Local 4631

Laboratory 426-6001 Local 4632

Fax and Mobile Number 426-4325, 0927-889-9026

E-mail Address: [healthdev@admu.edu.ph](mailto:healthdev@admu.edu.ph), [healthdev@yahoo.com](mailto:healthdev@yahoo.com)

Web Site: [www.healthdev-institute.org](http://www.healthdev-institute.org)

## FOOD SERVICES

The **Office of Food Safety and Quality Assurance (OFSQA)**, under the Vice President for Administration was created in April 2013 to establish and strengthen school food safety programs, prevent incidence of food borne diseases and to ensure that the quality of food served in our campuses meets the community's need for proper nutrition.

To ensure the health and safety of the members of the Ateneo de Manila community, all food and beverage related events catering to 50 and above number of participants, whether Events Open to the Public (Forums, Concerts, Fund Raising, University Events and Food Sales Events) and Internal Events (Unit Office Events, Classroom Christmas Parties and Class Projects) held on campus must have a clearance from the OFSQA.

The Sponsoring Food and Beverage Companies collaborating with the student groups or unit offices are also asked to coordinate, through the respective Food Event Organizers, with the OFSQA to ensure that sponsored goods are also being checked.

### Loyola Schools Food Outlets

The University makes available various options for food service on campus through a number of dining establishments in each unit. These local cafeterias or in-house food providers, and non-recognized food concessionaires such as outside food providers/caterers, including the student-run food establishments managed by the John Gokongwei School of Management Enterprise Center (JSEC) in the Loyola Schools, are directed to provide nutritious, well-balanced, and safe meals, which are subjected to the OFSQA procedures.

All food providers must acknowledge their compliance to the Food Safety and Quality Assurance Safe Food Handling Procedures and accept full responsibility to ensure the safety of the Ateneo de Manila community. They are also encouraged to support the waste minimization goals by observing the Guidelines on Packaging Materials used in Food Products Distributed in Campus by the Ateneo Environment Management Coalition (AEMC).

The following are the Unit Food Outlets located in the Loyola Schools which are being monitored on a routine basis by the OFSQA:

(Note: The main concessionaires operate the cafeterias and its sub-concessionaires or satellites).

Food Outlets at the Loyola Schools	Location
<i>Main Concessionaires:</i>	
1. Ateneo Multi-Purpose Cooperative (AMPC) <i>AMPC Satellite Cafeteria</i>	Gonzaga Hall, Ground Floor  Ground Floor, Bellarmine Hall
2. Blue and Gold Catering Services	Gonzaga Hall, 2nd Floor
3. Heavenly Urban Chef	Cervini Residence Hall
4. Zekaf	Jose Mari Chan Hall, Level 1, University Residence Halls

Food Outlets at the Loyola Schools	Location
5. Manang's Clubhouse	Physical Education (PE) Complex
<i>Student-Run Food Establishments under the John Gokongwei School of Management:</i>	
JGSOM Student Enterprise Center	School of Management (SOM) Matteo Ricci (2nd floor) MVP Ground Floor near LS Bookstore New Rizal Library

#### **SERVICES:**

1. Water Quality and Food Safety Monitoring
2. Food Service, Facility and Personnel Hygiene Monitoring
3. Implementation and Support to Environmental Sustainability Advocacies of AEMC
4. Screening, Approval and Accreditation of Food Providers
5. Food Service Equipment and Utilities Monitoring and Surveillance of Preventive Maintenance and Cleanliness
6. Training and Development of knowledge and skills of food handlers, managers and owners of the Food Outlets
7. Food Complaint Investigation through objective measurements
8. Integrated Pest Management in the Food Outlets
9. Monitoring and Control of Food-Borne Outbreak and Diseases
10. Nutrition Assessment and Development of Nutrition Guidelines
11. Development of Food Allergy Policies

#### **Food Related Concerns**

*If you have food related concerns in any of the University Food Outlets...*

If you have experienced a problem with a food product, be sure to contact the OFSQA.

*If you think you are ill because of food consumed from the food outlets, see a physician.*

It would also be helpful to have information on the type of injury or illness that resulted including a description, types of symptoms and time of onset, nature and location of any medical attention received, and any type of laboratory test taken with the results. You may also call the Loyola Schools Office of Health Services for immediate medical attention.

#### ***The Bottom Line:***

If you sense there's a problem with any food product, don't consume it. "When in doubt, throw it out."



***Tell us what you think:***

How was your dining experience in the University Food Outlets? Submit your feedback – if you include your contact information, we'll respond to your feedback right away!

**Contact Information**

**Office of Food Safety and Quality Assurance (OFSQA)**

Room 208 2/F Faber Hall

Tel: +63 2 426 6001 ext. 4176 and 4175

Fax: +63 2 332 4434

Email: fsqa@ateneo.edu

## **CAREER AND PLACEMENT SERVICES**

The Loyola Schools provides career counseling to students in preparation for their entry into a career. The school maintains systematic contact with its graduates and involves its alumni in its programs for placement, continuing education and community involvement. Formal linkages are established with the employment sector for systematic recruitment and orientation of graduating students and studies are conducted to track their whereabouts, evaluate their preparedness for work, and gauge their actual work performance.

The **Loyola Schools Office of Placement and Career Services (LSOPCS)** is committed to assist in the formation of students as professionals-for-others who are globally competitive and Asian in perspective, by providing employment opportunities and career development services designed to help students make a smooth transition from the academe to the workplace.

**SERVICES:**

**1. Career Counseling**

To facilitate students in their transition to work, the LSOP organizes year-long activities that address the needs of students at key stages / phases of their career decision-making process.

During the “Information-Gathering Phase” in the first semester, juniors and seniors go through Resume-Writing-cum-Group-Career-Counseling Sessions. On the other hand, for orientation on various career fields, a 12-week networking series is likewise offered to all interested students.

For the “Packaging-for-Employment Phase” during the second semester, students are given the chance to go through mock interviews and attend career fora to prepare themselves for the Job / Practicum Fair and various On-Campus Recruitment activities such as Pre-Employment Testing and Job Interviews.

**2. Research**

In aid of career counseling, the LSOP conducts research to trace the whereabouts of its recent graduates (1 year after graduation). Likewise, information on Ateneo alumni's work performance is surveyed among LSOP's partners in the employment

sectors. Finally, graduating students' perception of Ateneo education / formation is studied and made available to the LS community.

### **3. Networking**

The LSOP stages the Annual Job / Practicum Fair to allow students to explore various career outlets suited to their individuality. Galas and industry-specific networking sessions also provide other avenues for students to interact with HR practitioners in the corporate field.

#### **Contact Information**

The LS Office of Placement (LSOP)

2/F Social Sciences Building.

Tel: 426-6077

426-6001 Local 5040-5041

Fax: (+632) 426-6077

E-mail: [placement@admu.edu.ph](mailto:placement@admu.edu.ph)

Web: <http://placement.ateneo.edu>

#### **Office Hours:**

Monday to Friday      8 AM to 5 PM

Saturdays              8 AM to 12 NN

## **STUDENT HOUSING SERVICES**

The Loyola Schools provides comfortable and sanitary living quarters with adequate recreational facilities for students living away from home (or resident students). There are dormitories within campus premises and accredited off-campus housing facilities. On-campus resident students are supervised by professionally-trained resident managers and directors, and enjoy support services and programs organized and managed by the residents themselves through the Ateneo Resident Students Association (ARSA).

The **Loyola Schools Residence Halls Office (RH)** oversees the maintenance and upkeep of the dormitories and provides a living environment conducive to the total human formation of the resident students. The main residence halls are the Cervini Hall for 120 male freshmen students and the Eliazo Hall for 120 female freshmen students. Some remaining rooms are made available for exchange students, visitors and transients. The twin-tower University Dormitory is a 600-bed facility for the upperclassmen.

#### **SERVICES:**

##### **1. On-campus Resident Students are provided the following:**

- a. Room amenities – four occupants in a room are provided individual bed and mattress, cabinet for clothes and shoes, study table with chair, lamp and bookshelves, and ceiling fan.
- b. Toilet and bath are common facilities located in every floor of the buildings.
- c. There is a local phone per room.
- d. Free direct line phones are available.

- e. Air-conditioned prayer rooms and study rooms are available in each building.
- f. In the common recreation room are the TV and video corners, billiards and ping-pong tables, dart board and a spacious open area for multi-purpose activities.
- g. Room-to-room internet access.
- h. The Cervini Cafeteria is open daily from 6:30 AM to 9:00 PM. The Zekaf restaurant in the adjacent Jose Mari Chan Hall is also open Monday to Sunday from 7am – 11pm.
- i. 24-hour security assistance is provided by male and female guards.
- j. Accredited laundry firms pick up and deliver laundry every day, while accredited laundry women offer laundry service to dormers every Monday and Thursday. There are token-operated washing machines for those who wish to do their own laundry.
- k. ARSA activities include academic tutorials, group study and book lending. They also organize Sunday Masses, evening prayer, recollections, confessions and retreats, inter-dorm sports fests, inter-athletic competition, variety shows and open house, as well as opportunities for social awareness and involvement like disaster relief operations, socio political mobilizations and social education.

### **Contact Information**

For On-campus Resident Students:

Director of Residence Halls

Room 101, Cervini Hall

(632) 426-6001 local 5904 or 5932

DL: (632) 426-6119

FAX: (632) 426-6118

e-mail: tgabuna@ateneo.edu

### **2. Off-campus Resident Students**

- a. A Directory of Accredited Off-Campus Student Housing Facilities is made available through the ADSA and lists housing facilities in the Loyola Heights area that have passed the criteria set by the Loyola Schools for student housing. A softcopy may also be requested by e-mailing [adsa@admu.edu.ph](mailto:adsa@admu.edu.ph)
- b. These off-campus dorms are inspected on a regular basis and assessed for continuing accreditation by a de-facto committee composed of members of the Student Affairs Team with student representatives and the an external group of dormitory owners, organized as the Association of Student Housing Facilities (ASHF).

**Off-campus Resident Students** who live in accredited student housing facilities may seek needed assistance directly from the ADSA office which

maintains a 24-hour helpline that students may call or send messages to –  
**ADSA Helpline: 0920-914-ADSA (0920-914-2372)**

## **FINANCIAL AID SERVICES**

For four decades now, the Ateneo College Scholarship Program for deserving but financially needy students continues to thrive -- thanks to the many generous benefactors who have extended much needed and appreciated help. The Ateneo College Scholarship Program is under the auspices of the **Office of Admission and Aid (OAA)**.

Financial aid grantees are selected on the basis of:

- a. intellectual ability and excellent academic achievement
- b. financial need as clearly manifested in the Scholarship / Financial Aid Questionnaire
- c. demonstrated commitment to the service of the community and potential for greater service in the future

### **SERVICE:**

1. Financial Aid Grants
  - a. Financial aid takes various forms:
    - 100% tuition and fee
    - 75% tuition and fees
    - 50% tuition and fees
    - 25% tuition and fees
    - book and/or transportation allowance
    - dormitory assistance
  - b. Program of Study and Tenure of Award

Financial assistance is granted to students in all undergraduate programs of study in the Loyola Schools. The grant is given for a year only. It is renewed annually upon evaluation of the student's continued financial need and above satisfactory academic performance. The student must not have obtained any failing mark. Financial assistance includes Summers and Basic Courses if these are required.

### **Contact Information**

Office of Admission and Aid  
G/F Kostka Hall, Loyola Schools  
Tel: (632) 426-6001 loc. 5154 to 5155  
DL: (632) 426-6075  
FAX: (632) 426-1214  
E-mail: [admissions.ls@ateneo.edu](mailto:admissions.ls@ateneo.edu)

**Office Hours**

Monday to Friday      8 AM to 12 NN  
                                 1 PM to 5 PM  
Saturday                8 AM AM to 12 NN

**INTERNATIONAL STUDENT ASSISTANCE**

The Loyola Schools acknowledges the special needs of its international students. Orientation programs are offered to facilitate their adjustment to the country and campus, with designated staff from the Registrar's Office and the Office of the Associate Dean for Student Affairs assigned to assist with the particular requirements of International Students. The **Office of International Relations (OIR)** takes care of the welfare of non-degree exchange and visiting students and international undergraduate and graduate students.

**SERVICES:**

1. Prepares International Student's Data for Undergraduate and Graduate Levels for submission to Commission on Higher Education and Bureau of Immigration;
2. Prepares requests for student visa and other related concerns for endorsement to Bureau of Immigration and/ Department of Foreign Affairs;
3. Checks completeness of requirements for International Students as may be required by CHED, DFA, and/or Bureau of Immigration
4. Monitors Foreign Students Documents such as validity of Visa, Passport, etc.
5. Controls and releases communication and documentation required for Undergraduate and Graduate International Students.

The Office of International Relations:

6. Hosts visiting faculty and research fellows from institutions abroad.
7. Facilitates active student exchange programs such as:
  - a) The special Philippine Immersion Programs for a month or two for a small group of fifteen to eighteen students.
  - b) The usual exchange program where international students enroll for regular courses during the semesters.

**Contact Information**

Registrar's Office  
G/F Social Sciences Building  
Tel: 426-6001 loc. 5130-36  
Fax: 426-6123  
E-mail: registrar@admu.edu  
Web: <http://ls.ateneo.edu>

Office of International Relations  
Rm. 304, 3/F Faber Hall  
Tel: (+632) 426-6001 local 4037, 4038  
Tel/Fax: (+632) 426-5907, (+632) 927-4534  
Email: oir@ateneo.edu

## STUDENT EMERGENCY ASSISTANCE

In student emergency cases, the Office of the Associate Dean for Student Affairs (ADSA) may be contacted at local 5020 or 5021, or through its direct line (02-4266098) or the 24/7 ADSA HELPLINE (0920-914-ADSA or 0920-914-2372 – also printed at the back of the student ID). The ADSA will then see to it that immediate response is made by the appropriate office or agency.

The offices handling the needed specific service may also be contacted directly:

- Medical Assistance: Loyola Schools Office of Health Services (local 5110)
- Security Assistance: Campus Security Office (local 4111 or 4115 or 426-5930)
- Psycho-emotional Assistance: Loyola Schools Office of Guidance and Counseling (local 5030 or 5031).

The 117 government emergency line may also be contacted for emergency assistance (police, fire or medical).

### ADSA SERVICES:

#### 1. Handling of Medical Emergencies and Emergency Transport

When needed, the ADSA oversees the handling of medical emergencies, in direct coordination with the Loyola Schools Office of Health Services (LSOHS).

- a. Necessary information such as name, year & course and contact numbers are obtained.
- b. Parents/Guardians are informed of the emergency. Their authorization to act is also secured.
- c. Depending on the severity of the illness or injury, the student is brought to one of the following facilities:
  - College Infirmary/Loyola Schools Office of Health Services
  - Health Development Institute (HealthDev)
  - Quirino Memorial Medical Center
  - Medical City – Ortigas
  - Nearest preferred hospital

#### 2. Processing of the Student Accident Insurance

All undergraduate students of the Loyola Schools are covered by a Student Accident Insurance which is one of the annual Miscellaneous Fees. This allows students to reimburse accident-related medical expenses upon submission of proper documents and within the limits specified by the insurance provider.

#### 3. Processing of the Letter of Endorsement to the Associate Dean for Academic Affairs for cases of prolonged absence from class

If a student is absent from class for a long period of time due to illness or injury, the Office of the Associate Dean for Student Affairs forwards a letter of endorsement to the Office of the Associate Dean for Academic Affairs to facilitate dissemination of information to the affected student's teachers.

**Contact Information**

Office of the Associate Dean for Student Affairs

G/F Xavier Hall, Loyola Schools

Tel: 02-4266001 loc. 5020 to 21

DL: 02-4266098

Email: [adsa.ls@admu.edu.ph](mailto:adsa.ls@admu.edu.ph)

ADSA HELPLINE: 0920-914-ADSA (0920-914-2372)

**SAFETY AND SECURITY SERVICES**

The Loyola Schools takes measures to provide a safe and secure environment for the members of its community. The University Security Office, under the auspices of the Facilities Management Office (FMO) ensures 24/7 security with its detail of uniformed and plain-clothes security personnel. Traffic and theft concerns are addressed to the Security Office through the Office of the Associate Dean of Student Affairs (ADSA).

**SERVICES:****1. Theft/Loss Report Processing and Investigation**

In cases where students lose their personal belongings, whether through theft or accidental loss, a theft/loss report may be filed at the ADSA Office. If the item is subsequently found, the owner is immediately contacted. In the cases of possible theft, the ADSA Office Staff for Security can assist the student in tracing possible leads and examining evidence.

**2. Traffic and Parking Tickets and Complaints Processing**

The ADSA Office also handles cases of violations of University traffic and parking regulations by Loyola Schools students. After the security copy of the ticket is turned over by the apprehending officer, the ADSA Office records and processes the violation, assists the student in settling the penalties, answers queries and entertains explanations. When necessary, reprimands may be issued, appeals referred to the corresponding persons, as well as recommendations made to the Facilities Management Office.

**3. Requests for Temporary Gate pass/Parking pass**

In cases where a student is incapacitated and needs special assistance in terms of getting to and from his classes, a Temporary Gate/Parking pass may be applied for at the ADSA Office to enable his/her vehicle to bring him/her as close to the buildings as possible.

**4. Driver/Bodyguard/Chaperone ID processing**

As part of the effort to secure the campus, drivers/bodyguards/chaperones who regularly enter the campus are required to secure IDs from the ADSA Office which are validated every semester.

**Contact Information**

University Security Office  
G/F Blue Eagle Gym  
Tel: 4266001 loc. 4111/4115 or  
426-5930

Office of the Associate Dean for Student Affairs  
G/F Xavier Hall, Loyola Schools  
426-6001 loc. 5020 to 21  
DL: 426-6098  
Email: [adsa.ls@admu.edu.ph](mailto:adsa.ls@admu.edu.ph)  
ADSA HELPLINE: 0920-914-2372

**LOGISTICS AND EQUIPMENT ASSISTANCE**

Different venues, facilities, and equipment are available at the Loyola Schools for student use in the accomplishment of academic requirement and for non-academic formation. Upon request via the **Office of Administrative Services (OAS)**, effective technical support and assistance are also provided.

**SERVICES:**

1. Facilitation of requests for venues (eg. classrooms, meeting rooms, audio-visual rooms, auditoriums, roof decks, hallways, and corridors)
2. Facilitation of requests for equipment (audio-visual equipment, tables and chairs, tents, rolling boards, etc.)
3. Provides Maintenance Personnel to attend to buildings and facilities repair and cleanliness
4. Provides duplication services around campus
5. Oversees food services in the Loyola Schools cafeterias

**Contact Information**

Office of Administrative Services  
2/F Gonzaga Building  
Tel/Fax: 426- 6001 locals 5100-5103  
E-mail: [oas.ls@admu.edu.ph](mailto:oas.ls@admu.edu.ph)  
Web: <http://ls.ateneo.edu>



## **II. STUDENT DEVELOPMENT**

### **THE LOYOLA SCHOOLS INTEGRATED ATENEO FORMATION (INAF) PROGRAM**

The Loyola Schools' InAF program is aimed towards the formation of persons-for-and-with-others who will contribute meaningfully to the transformation of Philippine society as servant-leaders engaged in various fields of endeavor.

In line with the formation of the whole person characteristic of Jesuit education, the InAF program seeks to provide students with opportunities that can help develop and integrate the personal, academic, socio-cultural and spiritual dimensions that comprise each student's person.

In forming students to be professionals-for-and-with-others, the InAF program seeks to develop graduates who are: able to apply their academic competence and training in the service of nation building; conscious of their responsibilities as global citizens; guided by Ignatian discernment and rooted in a personal relationship with God; strongly oriented to faith and justice; and critically rooted in their culture.

To achieve the abovementioned goals, all undergraduate students of the Loyola Schools undergo four programs as part of their holistic formation—the Introduction to Ateneo Culture and Traditions (InTACT), the National Service Training Program–Preparatory Leadership Undertaking for Sophomores (NSTP-PLUS), the Junior Engagement Program (JEEP), and the Senior Integration Program (SIP). These programs are supervised by the Office of the Associate Dean for Student Affairs and involve the following offices—the Office of Campus Ministry, the Office of Placement and Career Services, the Office of Guidance and Counseling, the Office for Social Concern and Involvement, and the Office of Student Activities.

#### **1. Introduction to Ateneo Culture and Traditions (InTACT): First Year**

- a. The InTACT program aims to help first year students develop self-awareness and self-empowerment by providing them with opportunities to take a closer look at themselves and at how they relate to their family, friends, school, country, and God. As students are welcomed into the Ateneo community and introduced to the university's culture and traditions—which are rooted in Filipino, Catholic and Jesuit values—they not only go through a journey of self-discovery but one of formative growth as well.
- b. The InTACT program is designed to assist students in their academic adjustment to college life; raise their self-awareness; introduce them to the value of Ignatian Spirituality; and develop their sense of community and awareness of social realities.
  - A faculty or professional homeroom adviser, partnered with a student facilitator, is assigned to handle each first year block.
  - Through weekly homeroom sessions that span the entire school year, students are guided through modules that are meant to help them get to know themselves better as they undergo the Ateneo brand of holistic formation.

- The homeroom adviser and student facilitator likewise hold individual consultations with each student to continuously look out for their well-being and provide support when needed.

## **2. National Service Training Program – Preparatory Leadership Undertaking for Sophomores (NSTP-PLUS): Second Year**

- a. The NSTP-PLUS was conceived in response to the National Service Training Program (NSTP) Act of 2001 or Republic Act 9163, which seeks to “promote civic consciousness among the youth and ... develop their physical, moral, spiritual, intellectual and social well-being. It shall inculcate in the youth patriotism, nationalism, and advance their involvement in public and civic affairs.” As such, the program seeks to develop the ethics of social involvement and patriotism among sophomores as they undergo training in any of the following components—Civic Welfare Training Service (CWTS), Literacy Training Service (LTS), or Reserved Officers Training Corps (ROTC).
- b. The NSTP-PLUS aims to provide students with opportunities to deepen their knowledge of themselves through the continuous exploration of their gifts. Together with such self-exploration, students are likewise invited to get to know their neighbors from the marginalized sectors of society and, in the case of CWTS and LTS, to respond to the call of being a gift to others through their particular academic disciplines or fields of interest.
  - Through the guidance of formators and faculty from their home departments, students render three hours of discipline-based or interest-related service each week to a particular community or partner institution for the entire school year.
  - These weekly engagements are analysed further via processing sessions and reflected upon more deeply through sessions for prayer and Ignatian discernment.

## **3. Junior Engagement Program (JEEP): Third Year**

- a. To enable third year students to further engage the world beyond the self, the JEEP aims to help juniors develop a deeper awareness of their responsibility towards the “other” and of their role as members of society.
- b. The JEEP is designed to provide opportunities that will allow students to critically engage in the life experiences of people who experience, or work to address the reality of marginalization. Through these experiences, it is hoped that students will gain an understanding of the various contexts of the “other” in relation to economic, political, and socio-cultural realities as well as grow in social responsibility.
  - Through the guidance of formators in consultation with faculty from the Philosophy department, students participate in the work and daily activities of people on the margins through a 12-16 hour experience with persons-with disability, the elderly, environmental issues, labor issues, the government sector and institutions involved in volunteer work.

- Such an engagement is further analyzed and reflected upon from a variety of perspectives—philosophical, personal, social, and spiritual—thus providing students an opportunity to draw together the different dimensions of their lives.

#### **4. Senior Integration Program (SIP): Fourth Year**

- a. The SIP aims to help graduating students reflect on and integrate their Ateneo college experience in light of their personal vocation and the call to help build the nation. By helping seniors discern how their respective disciplines and future career decisions can respond effectively to societal needs, the program seeks to form graduates who will be catalysts for change as professionals-for-and-with-others.
- b. The SIP is designed to form leaders who possess competence in their respective fields of study, a strong sense of their personal giftedness, a genuine desire to be of service to the nation, and a capacity to ground their decisions in Ignatian discernment.

*Several activities comprise the SIP:*

- Through an opening ritual known as the “Paglunsad,” seniors are provided an opportunity to look back at their years in the Ateneo, to prepare to deepen their commitment and involvement during their senior year, and to reflect on their future with the help of Ignatian Discernment talks.
- Through the PRAXIS program—a two-and-a-half-day immersion experience with marginalized communities coursed through their Theology classes— students analyze Philippine social reality in light of the Church’s social teachings and the social dimension of Christian witness, and reflect on the demands such a reality makes on their lives.
- Through guidance testing, placement talks, and a job fair, future graduates are provided an opportunity to meaningfully explore career options.
- Finally, through the culminating ritual known as the “Pabaon,” the graduating students are led through a prayerful reflection about the meaning of their Ateneo education and formation and receive an inspiring send-off as they venture forth from the Ateneo to be professionals-for-and-with-others.

#### **Contact Information**

Office of the Integrated Ateneo Formation  
Program  
G/F, Xavier Hall  
Tel: 426-6001 loc. 5008

Office for Social Concern and Involvement  
Tel: 426-6001 loc. 5090-91  
Fax: 426-1017  
E-mail: [osciateneo@yahoo.com](mailto:osciateneo@yahoo.com)  
Web: <http://ls.ateneo.edu/osci>

## **CAMPUS MINISTRY SERVICES**

The **Office of Campus Ministry (OCM)** sees to the various faith services of all member of the LS, aiming at forming a community with a dynamic spirituality that is grounded on a deep, personal commitment to God. All members of the LS, especially students, are encouraged to participate in the services listed below:

### **SERVICES:**

#### **1. Liturgy and Sacraments**

- Daily Masses and Regular Confessions in the College Chapel
- Special Loyola Schools Community Liturgies (Holy Spirit, St. Ignatius, Immaculate Conception, Christmas, Ash Wednesday and Baccalaureate Masses)
- Rite of Christian Initiation for Adults (Baptism, First Communion, Confirmation)

#### **2. Spiritual Formation Programs**

- Recollections, processing and prayer sessions, and Day of Synthesis for the **Integrated Ateneo Formation (InAF)** programs from first year to fourth year
- Silent Ignatian Retreats and Recollections for members of the Loyola Schools
- Retreat in Daily Life
- Spiritual Direction; Pastoral Counseling
- Workshops on Prayer and Spirituality
- Training of the Loyola Schools Ministers of the Altar: Eucharistic Ministers, Readers and Servers
- Liturgical Guitar Program

#### **3. Others**

- Library of Spiritual Formation Resources
- Prayer Rooms; Multi-Faith Prayer Room
- Mass Cards, Mass Intentions and Mass Sponsorship
- Sale of religious items

### **Contact Information**

Loyola Schools Office of Campus Ministry  
Ground Floor, Manual V. Pangilinan Center for Student Leadership  
Tel: 426-6001 loc. 5161  
Fax: 426-6522  
E-mail: [campusministry.ls@ateneo.edu](mailto:campusministry.ls@ateneo.edu)

## STUDENT ORGANIZATIONS AND ACTIVITIES

The Loyola Schools champions the Ateneo brand of “transformative leadership” for nation-building by offering students opportunities to sharpen existing skills, learn and develop new ones, and apply them as engaged leaders and members of organizations and activities.

Supervision, recognition and monitoring of student organizations and their activities such as leadership programs, student publications, student socio-civic involvement, culture and arts, sports development, per helper programs fall under the responsibility of the **Office of Student Activities (OSA)**.

### SERVICES:

1. Sees to the effective planning, implementation, and evaluation of activities within and among campus organizations.
2. Distributes and oversees Guidelines for student activities (**ie. activity hour, moratorium period, activities inside the campus, activities outside the campus**)
3. Provides a variety of co-curricular programs and activities that contribute to student development and support the school’s objectives.
4. Guides and assists recognized and non-recognized organizations on campus and creates guidelines for student activities that insure loyalty to the vision of the Ateneo.
5. Supervises **OSA Monitored Facilities**
  - Kostka Extension
  - Doghouse/Quadstage
  - Facilities inside the MVP-CSL
  - Organization Rooms
  - Publications Room
  - OSA Conference Room 2
  - Activity Rooms 1-6
  - LDP Seminar Room (LDPSR)
  - Music Rehearsal Room
  - Storage Room
  - Colayco Pavilion
  - Operations Room
6. Creates programs that attract more students and faculty members to extra and co-curricular activities of the Loyola Schools.

### Contact Information

Office of Student Activities

1/F, Manuel V. Pangilinan Center for Student Leadership

Tel: 426 6001 loc. 5050-52

Fax: 426 0795

E-mail: [osa.ls@admu.edu.ph](mailto:osa.ls@admu.edu.ph)

Web: <http://ls.ateneo.edu>

## STUDENT GOVERNMENT

The *Sanggunian ng mga Mag-aaral ng mga Paaralang Loyola ng Ateneo de Manila* (Sanggunian), is the sole autonomous government of the Loyola Schools Student Body, and all of its powers emanate immediately from and belong ultimately to the said body. The Sanggunian joins the various administration offices in the challenge of forming the Ateneans towards the ideals of academic excellence, cultural-rootedness, social involvement and spiritual maturity. The Sanggunian aims to provide basic services, representation, and initiatives that will give opportunities to nurture any or a combination of the four ideals, while considering still the needs and aspirations of typical students in the Ateneo.

The Sanggunian is basically divided into two branches: the *Central Board* (CB) and the *School Boards* (SBs). The CB is composed of the **President**, the **Vice President**, the **Secretary-General**, the **Finance Officer**, the **sixteen CB representatives from each year level of the four Loyola Schools**, and the **Sectors** composed of representatives from the *Ateneo Resident Students Association* (ARSA) and the *Council of Organizations of the Ateneo* (COA). The CB handles concerns encompassing the entire Loyola Schools. To help them do so, they are further divided into different committees with specific areas of focus.

To help the Sanggunian perform its different tasks, different Departments have been established under the direct supervision and jurisdiction of the Sanggunian President and the Central Board. There are currently four auxiliary departments and two service departments.

In line with its representative and administrative roles, the Sanggunian is also directly involved in certain student activities, namely:

- **ORSEM**

Ateneo's Freshman Organization Seminar, more popularly called OrSem, is a two-day event on campus, organized for the incoming freshmen of the Loyola Schools. The event is staffed by around 800 upperclassmen working under the guidance of an Organizing Committee (OrCom). OrSem is scheduled before the first semester begins. It aims to welcome the freshmen and introduce them to the people, the campus, the academic programs, and the student activities of the Loyola Schools.

- **BLUE ROAST**

Every year the Senior Year Council honors its graduating class with a farewell gathering called Blue Roast, where everyone celebrates their four (or five) years of college life with the faculty members, professionals, staff, maintenance personnel, administrators, and the rest of the university community. The Blue Roast is a tradition for seniors - the rite of passage from the world of the academe to the world of professional pursuits.

- **AEGIS**

Aegis is the official yearbook of the Loyola Schools.

### Contact Information

Room 200, 2nd Floor Manny V. Pangilinan Center for Student Leadership

Tel: (632) 426-6001 loc. 5400 (632) 9291029

Sanggunian Hotline: 0928-3481686 (Smart)/0927-7777579 (Globe)

Email: [info@ateneosanggu.com](mailto:info@ateneosanggu.com)

## **COUNCIL OF ORGANIZATIONS OF THE ATENEO (COA)**

The Council of Organizations of the Ateneo, as the confederation of over 50 accredited organizations of the Ateneo, helps protect the diversity and the general welfare of the organizations. Through the Central Board, Executive Board and Executive Teams, the COA aims to empower the organizations and their respective Executive Board Members through the services it provides to them; ensures that the operations cycle of the Council runs smoothly through policies and efficient information dissemination systems; organizes projects such as the Recruitment Week; and represents the organizations as liaison officers to offices and external groups and as official delegates in different LS-wide, nationwide and even international events.

The numerous accredited student organizations are clustered based on their core competencies and advocacies. The different clusters and the organizations under each are:

### **Analysis and Discourse Cluster (ADC)**

Ateneo Debate Society (ADS)  
Ateneo Association of European Studies Students (AEuSS)  
Ateneo Economics Association (AEA)  
Ateneo Project for Asian and International Relations (APAIR)  
Ateneo Statistics Circle (A-Stat)  
Development Society of the Ateneo de Manila University (DevSoc)  
Enterteynment Para sa Tao, Bayan, Lansangan, at Diyos (ENTABLADO)  
The Ateneo Assembly (Assembly)

### **Business Cluster (BC)**

Ateneo Association for Communications Technology Management (ACTM)  
AIESEC-Ateneo de Manila (AIESEC-AdMU)  
Ateneo Junior Marketing Association (AJMA)  
Ateneo Lex (ALEX)  
Ateneo Management Association (AMA)  
Ateneo Management of Applied Chemistry Association (MACA)  
Management Engineering Association (MEA)  
Ateneo Management Economics Organization (MEcO)

### **Faith Formation Cluster (FFC)**

Ateneo Catechetical Instruction League (ACIL)  
Ateneo Christian Life Community (ACLC)  
Ateneo College Ministry Group (ACMG)  
Ateneo Student Catholic Action (AtSCA)  
Youth for Christ – Ateneo (YFC – A)

### **Health and Environment Cluster (HEC)**

Ateneo Environmental Science Society (AESS)  
Loyola Mountaineers (LM)  
Ateneo Peers (PEERS)  
Pre-medical Society of the Ateneo (PMSA)

### **Inter-Cultural Relations Cluster (ICR)**

Ateneo Lingua Ars Cultura (ALAC)  
Ateneo Student Exchange Council (ASEC)  
Ateneo Celadon (Celadon)

### **Media and Creative Arts (MCA)**

Ateneo Association of Communication Majors (ACOMM)  
Ateneo Musicians' Pool (AMP)  
Collegiate Society of Advertising (CoSA)  
Loyola Film Circle (LFC)

### **Performing Arts Cluster (PAC)**

Ateneo de Manila College Glee Club (ACGC)  
Ateneo Blue Repertory (blueREP)  
Ateneo Blue Symphony (Blue Symph)



Company of Ateneo Dancers (CADs)  
Tanghalang Ateneo (TA)

**Service-Based Cluster (SBC)**

Ateneo Consultants for Organization  
Development and Empowerment (Ateneo  
CODE)  
Ateneo Gabay (Gabay)  
Kaingin (Kaingin)  
Kythe-Ateneo  
Musmos Organization (Musmos)  
Ateneo Special Education Society (SPEED)  
Tugon

**Science and Technology Cluster (STC)**

Ateneo Chemistry Society (ACheS)  
Ateneo Electronics and Computer  
Engineering Society (AECES)  
Ateneo Mathematics Society (AMS)  
Ateneo Biological Organization –  
eXperience eXplore eXcel (BOx)  
Computer Society of the Ateneo (CompSAte)  
Ateneo League of Physicists (LeaPs)  
Ateneo Management Information Systems  
Association (MISA)  
Ateneo Psyche (Psyche)

## **LEADERSHIP DEVELOPMENT PROGRAMS**

Answering to its desire to actively contribute to the imminent and urgent need for nation-building, the Loyola Schools under the supervision of the **Office of Student Affairs (OSA)** seeks to form students in organized groups to become leaders who will be key active citizens in the task of national development. This aim is made possible by making organized groups capable of formation and providing them a venue conducive for them to flourish.

**SERVICES:**

1. Hasik-LDP

A leadership development program that is targeted at freshmen and sophomores who have yet been made aware of opportunities in student organizations or in the concept of personal leadership in general. The program is given as a whole-day workshop format.

2. Sibol-LDP

A program that caters to sophomore and junior organizations members who want or are discerning whether to take an active role in their respective organizations. Topics are determined based on the needs of the organization leaders during their tenure as officers. Mentoring and coaching for the participants are given to assist the participants in their current work.

3. Alpas-LDP

Alpas-LDP is a program that seeks to aid student leaders hurdle the stress and challenges of the leadership positions they hold, by giving them an outlet that is different from their daily leadership routines. Different topics are used to invite leaders to try out something new from their usual activities.

4. Ateneo Student Leadership Circles (ASLC)-LDP

ASLC-LDP seeks to provide a venue for current student leaders to develop their skills and themselves through dialogue and fellowship. The program gives an opportunity for these leaders to share with each other their current contexts and best



practices. ASLC offers a community that will serve as a support system to student leaders, as they pursue their vision.

5. Others

Formation and Planning Seminars

Evaluation Seminars

Specific training programs to address local and individual needs of the student groups.

**Contact Information**

Office of Student Activities

Tel: 426 6001 loc. 5050-52

Fax: 426 0795

E-mail: [osa@admu.edu.ph](mailto:osa@admu.edu.ph)

Web: <http://ls.ateneo.edu>

## **STUDENT PUBLICATIONS**

As the official student newspaper of the Ateneo, the **GUIDON** chronicles Ateneo history as it happens, delivering the burning issues and events that matter. Through fair, accurate and responsible campus journalism, the Guidon seeks to enlighten and inspire Ateneans to make a change. The organization molds its members into skilled and principle leaders, as the Guidon looks into the life inside Ateneo and beyond.

As the official Filipino magazine of the Loyola Schools, **MATANGLAWIN** seeks to be an eye that is critical of the issues of the society. In addition, the organization seeks to illuminate sectors that lie on the fringes by giving voice to them. Lastly, Matanglawin aims to expose the corruptions in prevailing systems and structures of the society.

As the official literary and artistic publication of the Ateneo, **HEIGHTS** aims to continue and contribute more to the Ateneo literary and artistic tradition of excellence through developing a community of readers, artists, and writers within and outside the University.

**SERVICES OF THE GUIDON:**

1. Distributes school paper monthly with a circulation of 4,500 copies
2. Provides Feedback forum in the school paper
3. Provides Classified Ads section
4. Organizes seminars on Campus Journalism
5. Covers important Socio-political Events in and outside campus.

**SERVICES OF MATANGLAWIN:**

1. Distributes school paper bi-monthly with a circulation of 4,500 copies
2. Organizes forums on pertinent local issues
3. Organizes seminars on Campus Journalism in Filipino

4. Organizes immersion of members to the masses

#### **SERVICES OF HEIGHTS:**

1. Distributes literary magazine quarterly with a circulation of 3,000 copies
2. Organizes creative writing seminars and workshops
3. Organizes Art Talks
4. Organizes Book launches
5. Organizes immersion of members to the masses

### **SPORTS DEVELOPMENT PROGRAMS**

The Ateneo de Manila University is a Filipino, Jesuit and Catholic educational institution. As such, its primary mission is the pursuit of truth and its transmission to and the holistic formation of the student under its care. Athletics is one the avenues for formation. It has been proven by generations of athletics as an effective tool not just for developing physical prowess but for developing leadership and character as well. University and College Athletics manage the competitive sports side of athletics.

The University recognizes different sports as legitimate venues for formation and supports the formation of varsity teams that are allowed to carry the University's official name and represent the institution in University-sanctioned athletics competitions. These competitions are mostly inter-school or inter-university. The University lends its good name to these teams because it extends its formative responsibility to the students who comprise the varsity teams.

**The Office of College Athletics (OCA)** is responsible for the effective and efficient implementation of all athletic activities and programs in the Loyola Schools. It represents the Loyola Schools in coordinating with the organizers of the leagues and tournaments for the different sports, and ensures the safety and well-being of student-athletes participating in these leagues. Above all, the College Athletics Office concerns itself with the total development of the student-athlete.

#### **SERVICES:**

1. Assistance to college varsity teams (both UAAP and non-UAAP)
2. Issuance of certificate of competition participation
3. Early reservation for registration and/or realignment of block sections in certain subjects for student-athletes,
4. Accident insurance
5. PE and/or NSTP exemptions (except PE 101)
6. Scholarships and reduction of academic loads for student-athletes
7. Varsity team budget for transportation allowances and others
8. Special projects (such as Blue Eagle Cheer Rally and Sportsfests)
9. Internet-based, multimedia coverage for Team Ateneo

**Contact Information**

Office of College Athletics  
 PE Sports Complex  
 Tel: 426-6001 loc. 5080  
 E-mail: athletic@admu.edu.ph

**LEARNING SUPPORT RESOURCES**

The **Ateneo Loyola Schools Rizal Library (RL)** is an academic library that supports the teaching, research and community service functions of the Ateneo de Manila Loyola Schools. The library oversees the operation of the following: New Rizal Library, Rizal Library-Special Collections, Matteo Ricci Study Hall, and CTC 101 Open Access Computer Laboratories. The Rizal Library acquires, organizes, and preserves, print and non-print library materials such as books, serials, VHS, DVD, microforms, as well as digital information sources.

**LIBRARY HOURS:**

SECTION/OFFICES	LOCATION	LIBRARY HOURS	
		Monday-Friday	Saturday
Acquisitions	5 <sup>th</sup> floor, North Wing, New Rizal Library	8:00 a.m.-12:00 p.m. 1:00 p.m. 5:00 p.m.	8:00 a.m. - 12:00 p.m.
American Historical Collection (AHC)	2 <sup>nd</sup> floor, Rizal Library-Special Collections	8:00 a.m.-5:00 p.m.	8:00 a.m. - 12:00 p.m.
Ateneo Library of Women's Writings (ALIWW)	Ground floor, Rizal Library-Special Collections	8:00 a.m.-5:00 p.m.	8:00 a.m. - 12:00 p.m.
Cataloguing	5 <sup>th</sup> floor, North wing, New Rizal Library	8:00 a.m.-12:00 p.m. 1:00 p.m. 5:00 p.m.	8:00 a.m. - 12:00 p.m.
Circulation	1 <sup>st</sup> floor lobby, New Rizal Library	7:30 a.m.-9:30 p.m.	8:00 a.m. - 6:00 p.m.
Director's Office	2 <sup>nd</sup> floor, South Wing, New Rizal Library	8:00 a.m.-12:00 p.m. 1:00 p.m. 5:00 p.m.	8:00 a.m. - 12:00 p.m.
Filipiniana	2 <sup>nd</sup> floor, Rizal Library-Special Collections	7:30 a.m.-7:30 p.m.	8:00 a.m. - 6:00 p.m.
Computer and Audiovisual Services	3 <sup>rd</sup> floor, North Wing, Rizal Library	7:30 a.m.-7:30 p.m.	8:00 a.m. - 6:00 p.m.
Microform Reading Center	Ground floor, Rizal Library-Special Collections	7:30 a.m.-6:00 p.m.	8:00 a.m. - 6:00 p.m.
Pardo de Tavera Special Collections	2 <sup>nd</sup> floor, Rizal Library-Special Collections	8:00 a.m.-5:00 p.m.	8:00 a.m. - 12:00 p.m.
Photoduplication	Ground floor, Rizal Library-Special Collections	8:00 a.m.-12:00 p.m. 1:00 p.m. 5:00 p.m.	8:00 a.m. - 12:00 p.m.
Reference and Information Services	1 <sup>st</sup> floor, South wing, New Rizal Library	7:30 a.m.-9:30 p.m.	8:00 a.m. - 6:00 p.m.

SECTION/OFFICES	LOCATION	LIBRARY HOURS	
		Monday-Friday	Saturday
Reserve	1st floor, North wing, New Rizal Library	7:30 a.m.-9:30 p.m.	8:00 a.m. - 6:00 p.m.
Serials	2nd floor, South wing, New Rizal Library	7:30 a.m.-7:30 p.m.	8:00 a.m. - 6:00 p.m.

#### **ATENEO LS RIZAL LIBRARY SERVICES**

1. Acquisitions
2. Cataloguing
3. Reader Services
  - a. Circulation
  - b. Computer open-access laboratory
  - c. Reference Services
  - d. Documents delivery services
  - e. Inter-library loan services
  - f. Inter-library use services (with referral letter)
  - g. Multi-media services
4. Outreach services
  - a. Library orientation
  - b. Book donations
  - c. Database training
  - d. Readers' advisory
5. Other Services
  - a. photocopying
  - b. microfilms
  - c. digitizing
  - d. cd burning
  - e. printing

**FACILITIES:**

Coffee Shop  
Electronic Resources Terminals  
Group study area  
Information Commons  
  
Multi-media Resources Center  
Open access computer terminals  
  
Open study area  
Pardo De Tavera Exhibit Area  
Quiet study area  
All reading areas

**Contact Information**

Rizal Library  
Tel: 426-6001 loc. 5550-5576  
Fax: 426-5961  
Email: rizal.library@admu.edu.ph  
URL: <http://rizal.lib.admu.edu.ph>  
Yahoo ID: rizallibrary.ls@ateneo.edu  
Facebook: Rizal Library (Be a Fan)

**LOCATION:**

2<sup>nd</sup> floor balcony, Matteo Ricci Study Hall  
1<sup>st</sup> floor South Wing, New Rizal Library  
2<sup>nd</sup> floor, Matteo Ricci Study Hall  
3<sup>rd</sup> and 4<sup>th</sup> floor, North Wing, New Rizal Library  
2<sup>nd</sup> floor, North Wing, New Rizal Library  
1<sup>st</sup> floor, Matteo Ricci Study Hall, CTC 101 3<sup>rd</sup> and 4<sup>th</sup> floor, North Wing, Rizal Library  
Roof deck, South wing, New Rizal Library  
2<sup>nd</sup> floor, Rizal Library-Special Collections  
1<sup>st</sup> floor, Matteo Ricci Study Hall

**ATENEO ART GALLERY SERVICES**

Located in the Second Level of the Rizal Library Special Collections Building, the university museum seeks to animate cultural life on campus and serve as an art resource for students, as well as the general public.

The Ateneo Art Gallery—widely recognized today as the first museum of Philippine modern art—was established in 1960 through Fernando Zóbel's bequest to the Ateneo of his collection of works by key Filipino post war artists. Through the years other philanthropists and artists followed Zobel's initiative, filling in the gaps so that the collection now surveys every Philippine art movement in the post war era: from neo-realism and abstract expressionism to today's post-modern hybrid tendencies. Artists represented in the collection include Fernando Zóbel, Vicente Manansala, David Cortez Medalla, H.R. Ocampo, Galo Ocampo, Arturo Luz, Impy Pilapil and Jose Tence Ruiz.

The Ateneo Art Gallery hosts innovative exhibitions and public programs highlighting works from its permanent collection as well as works from other collections for special thematic shows. The Ateneo Art Gallery also spearheads an exciting overview of young Philippine contemporary art annually through the Ateneo Art Awards.

**SERVICES:**

1. Exhibitions – Students and outsiders alike are welcome to tour the museum's exhibitions. Tours are free.

2. Group Services – Group tours are available for free by appointment. As the museum can only accommodate a limited number, please call the Ateneo Art Gallery in advance to secure arrangements.
3. ArtSpeak – ArtSpeak features artists represented in the collection and faculty members of the Ateneo whose interests revolve around the fine arts. It also involves lectures from guest curators and artists, enhancing the educational experience of the Gallery.
4. Internships – Internships are available to interested students. Applications may be sent to [ybuencamino@ateneo.edu](mailto:ybuencamino@ateneo.edu) and [ijaucian@ateneo.edu](mailto:ijaucian@ateneo.edu).
5. Rizal Library Art Book Collection and Reading Area – Books on art from the Rizal Library as well as the Fr. Rene B. Javellana, S.J. and Teodoro Locsin, Jr. Collections, are now housed in the Ateneo Art Gallery office. Students may access them upon request and browse through them in the reading area.
6. Gallery Shop – Catalogues, books and other souvenirs in line with the permanent and temporary exhibitions are available for sale at the museum's reception area.

## **MUSEUM RULES**

When visiting the Ateneo Art Gallery please help the museum staff protect works of art on view by following the rules listed below. We appreciate your help keeping the art safe so that it may be enjoyed by many generations to come.

### **DO NOT TOUCH WORKS OF ART.**

Your touch may not seem like much, but even the slightest contact can damage the surface of a painting, discolor stone, and even rust metal.

### **KEEP A SAFE DISTANCE BETWEEN YOU AND EACH WORK OF ART.**

Backpacks, laptop bags and large bags must be checked in.

This helps to avoid accidental touching or bumping.

Photography is allowed only after you review and sign a photo release form at the gallery office. Only works of art owned by Ateneo Art Gallery may be photographed. No flash photography is allowed because the intensity of the light damages the art.

**NO LEANING ON WALLS, PEDESTALS, OR CASES (EITHER TO WRITE OR FOR PHYSICAL SUPPORT).** This helps keep works of art hung on the walls or displayed in cases safe. Feel free to sit on the benches or the floor as you talk, write, or draw.

### **NO FOOD, DRINK, OR GUM IS ALLOWED IN THE GALLERIES.**

The art in the museum will provide plenty of food for thought as well as a feast for the eyes!

**RUNNING, PUSHING, AND ROUGH-HOUSING ARE NOT ALLOWED IN THE MUSEUM.** Appropriate museum behavior is necessary to avoid accidentally bumping into and damaging work of art.

**Ateneo Art Gallery**

2/F, Rizal Library Special Collections Building

Tel: (632) 426.6001 loc. 4160 or (632) 426.6488

Fax: (632) 426.6488

E-mail: [ateneoartgallery@yahoo.com](mailto:ateneoartgallery@yahoo.com)/[ybuencamino@ateneo.edu](mailto:ybuencamino@ateneo.edu)/[ijaucian@ateneo.edu](mailto:ijaucian@ateneo.edu)

Web: [www.ateneoartgallery.org](http://www.ateneoartgallery.org)

Twitter: @ateneoartgallery

**Gallery Hours**

Monday to Friday 8 AM to 7 PM

Saturday 8 AM to 6 PM

Closed on Sundays and Holidays

**MERCHANDISING AND COMMERCIAL RESOURCES**

The **Loyola Schools Bookstore** is the main commercial hub on campus which caters to the entire LS community – alumni, students, and employees. In this bookstore, shoppers are given access to a variety of products from the local and global academic market. Students enjoy lower prices, excellent service and convenience in the bookstore's textbook sales and complete backroom services. Decorated and talented alumni and faculty members showcase their works in the bookstores shelves. Books and publications from renowned universities here and abroad are made available to the wide customer base.

**SERVICES:**

1. One-stop shop for various publications and Ateneo memorabilia

The store retails affordable apparel (eg. shirts, jackets) and other paraphernalia conceptualized and designed by current LS students. On sale in the different shelves of the LS bookstore are volumes published by the printing houses of Philippine universities UP, UST, DLSU and Ateneo, as well as works produced by Ivy League schools in the U.S. like Harvard and Duke.

2. Reading Encouragement Program

Prominent alumni are invited to talk about their favorite books to help bring back students to the art of reading.

3. I-CampusStore

Offers discounted Apple-branded items and an in-house Apple-trained technician just for the Ateneo Community.

**Contact Information**

The LS Bookstore

Lower Ground Level, Manny V. Pangilinan Center for Student Leadership

Tel: (632) 426-6001 Local 5184 to 5186

E-mail: [lsbookstore@admu.edu.ph](mailto:lsbookstore@admu.edu.ph)

**Office Hours**

Monday to Friday 8 AM to 5 PM

Saturday 8 AM to 12 NN

# LOYOLA SCHOOLS REGULATIONS





# LOYOLA SCHOOLS REGULATIONS

## I. GENERAL REGULATIONS

The Ateneo de Manila University is a Filipino, Catholic, Jesuit community committed to the preservation, extension and communication of truth and its applications for the fullest development of the human person. The Ateneo de Manila University's Loyola Schools (hereinafter referred to as "Loyola Schools"), founded on the revered tradition of excellence and service, is concerned with the harmonious development of the intellectual and moral virtues of the students so that they may give greater glory to God and greater service to others.

1. The regulations of the Loyola Schools as set forth in this Handbook are calculated to secure the good order necessary for the effective pursuit of knowledge, to help the students attain the level of quality work required of them and to ensure proper deportment of the entire body.
2. The student's registration in the Loyola Schools is considered an expression of willingness to abide by all the rules and regulations prevailing in the Loyola Schools. Every student, therefore, is committed to the observance of these rules.
3. A student is in college primarily to achieve academic excellence and develop his/her total self for the service of his/her brethren. The standard set before each student presupposes maturity, responsibility, and judicious use of all the opportunities made available by the Loyola Schools.
4. Students are encouraged to use the library facilities and to consult regularly with their faculty advisers, and whenever necessary, with the Guidance Counselors and Campus Ministers.
5. A student whose parents do not reside in Manila should have a guardian in the city who is duly authorized by the parents to assume their responsibilities towards him/her.
6. Special University and School functions, being part of a student's life, should be attended by all students.
7. The student is encouraged to develop a deep Christian piety by regular participation in the religious exercises and services of the Loyola Schools. Regular retreats are scheduled for student groups; at least two Masses are offered in the Loyola Schools Chapel daily and the Sacrament of Reconciliation (Confession) is available everyday at designated hours.
8. The Ateneo de Manila has always considered co-curricular activities and athletics essential to the balanced formation and development of the student. Activities and athletics are part of the community life of the Loyola Schools. Therefore, each student should participate in one or several activities to the extent that his/her studies will allow.
9. Co-curricular activities, however, are meant to supplement studies, not to interfere with them. Hence, the Loyola Schools reserves the right to advise against participation in activities, if the student needs to devote more time to studies.

10. A student-athlete who is not a full-time student of the Loyola Schools or whose QPI rating is below the published catalog norms may not represent the Ateneo in inter-collegiate sports.
11. Students, as individuals or groups, may not use the name and/or seal of the University without authorization from the activity moderator and the approval of the Director of Student Activities. This applies to printed programs, invitations, announcements, tickets, and similar materials.
12. No college social function of the students should be held without the written approval of the Director of Student Activities. Appeals, however, may be made to the Associate Dean for Student Affairs.
13. Articles and news releases concerning the Ateneo de Manila should be cleared through the offices concerned.
14. The regulations governing the payment of tuition and other fees are issued from time to time by the Office of the Treasurer.
15. The Loyola Schools student, by joining this community of scholars, assumes the responsibilities, rights, and obligations of scholarship, which pertains to his/her status as a student. Because he/she is serving a period of intellectual apprenticeship, the student is expected by both his/her superiors and peers to perform his/her academic duties according to the proper standards. His/her status as a student commits him/ her to a time of serious study, the results of which are gauged by the marks he/she secures.

## **II. ACADEMIC REGULATIONS**

16. The Faculty Committee on Academic Standards interprets the published undergraduate academic regulations of the Loyola Schools of Ateneo de Manila University comprising the School of Humanities, John Gokongwei School of Management, School of Science and Engineering, and the School of Social Sciences. This Committee reviews all cases of an academic nature, i.e., honors for graduation, departmental awards, departmental QPI requirements beyond the minimum set by the Loyola Schools, status of deficient students, probation and readmission, the exceptions to a given rule, change of grade, etc. All appeals must be made in writing through the Associate Dean for Academic Affairs (ADAA) within two weeks after the official day for distribution of grades by the Office of the Registrar.
17. A student's list of officially registered courses on the Ateneo Integrated Student Information System (A.I.S.I.S.) is the official record of subjects in which the student is enrolled. Changes must be accomplished by the student on the official load revision forms available at the Office of the ADAA.
18. Students should complete the registration process to be considered officially enrolled. The complete registration process involves:
  - a. Enlistment in advised classes
  - b. Payment of the assessed fees
  - c. ID validation

A student must be officially enrolled to participate in classes, e.g., join groups, submit papers, or take exams. Only students who are officially enrolled are entitled to grades at the end of the semester or term. If there are any special circumstances that prevent a student from completing registration, he/she should immediately see the School Registrar.

19. Any change of concentration and/or course after the initial registration period is permitted only at the written request of the student with the recommendations of the Guidance Counselors and the approval of the respective concentration Chairperson or Program Director and the ADAA. The Guidance Office must issue an endorsement form for the change in concentration and/or course before the student can be issued a load revision form by the Office of the ADAA. The copies of the completed load revision form must be submitted by the student to the different offices concerned, and signed by the receiving offices.
20. Substitution of one subject for another shall not be allowed without the properly accomplished load revision form. No request to change a subject shall be entertained after the first week of instruction in the semester. The copies of the completed load revision form must be submitted by the student to the different offices concerned, and signed by the receiving offices.

Students may only add subjects after the initial registration period by filling out the load revision form. No request to add a subject shall be entertained after the deadline set by the Office of the ADAA or the Office of the Registrar for such changes. The copies of the completed load revision form must be submitted by the student to the different offices concerned, and signed by the receiving offices.

No student may drop a registered subject without the approval of the instructor, the home Department Chairperson/Program Director, the Department Chairperson/Program Director of the subject, and the ADAA; otherwise the student shall receive a grade of W (WITHDRAWAL) for the subject. However, while the request is pending, the student must continue to attend the class(es) that are to be dropped until the completed form has been submitted by the student to the offices concerned, and signed by the receiving offices. No request to withdraw from a subject shall be entertained after the deadline set by the Office of the ADAA or the Office of the Registrar. This request may be availed of only by students who have not exceeded the number of absences permitted by the Loyola Schools. (See Section 24.)

21. A student who withdraws voluntarily from the Loyola Schools is entitled to a transfer credential (HONORABLE DISMISSAL) under the following circumstances:
  - a. dismissal is not due to disciplinary reasons
  - b. clearance from all offices within the Loyola Schools must be secured.

Withdrawal shall be effective as of the date the completed clearance and load revision forms are filed with the Office of the Registrar.

22. A student who will not enroll from the Loyola Schools for non-academic or non-disciplinary reasons shall secure a LEAVE OF ABSENCE, which may be granted on the following conditions:
  - a. the student is in good academic standing

- b. the student is in good disciplinary standing
  - c. the student may not study or enroll in another school during the LEAVE OF ABSENCE
  - d. the period of leave may not exceed one academic year
  - e. the student may normally secure a LEAVE OF ABSENCE only once during his/her entire stay in the Loyola Schools.
23. The unit of instruction used for computing the amount of work required for graduation is the semester hour. One semester hour is equivalent to an hour's lecture or recitation per week for one semester.
  24. Regular attendance in all classes is one of the most important obligations of students. They are expected to attend all scheduled class exercises and activities. Honor students are allowed unlimited absences, unless specified otherwise by the instructor in the class syllabus. Students are held responsible for all matters taken and assignments given in their absence.
  25. A limited number of absences is permitted, but these absences must not exceed three times the number of semester hours of the subject. Thus, for a three-unit subject, the maximum allowable absence is nine class hours. The maximum allowable absence in science laboratory classes is three laboratory sessions. The maximum allowable absence in psychology laboratory classes is two sessions. There is no distinction between excused and unexcused absences. There is no such thing as a free cut.
  26. For absences beyond this norm, a student receives an automatic grade of W (WITHDRAWAL).
  27. Class hours lost by late registration are considered as absences.
  28. A student who is absent from class is responsible for all work given by the instructor on the day of his/her absence.
  29. Class attendance should not only be regular; it should be punctual. Recording lateness as an absence shall be left to the instructor's discretion.
  30. All subjects that form part of a student's program in the Loyola Schools are graded on a CREDIT basis, i.e., a letter mark with a corresponding Quality Point Value. A student may register for a subject on an AUDIT basis with the permission of the class instructor. Students who take units beyond the total load required by their program are allowed to have these extra subjects graded on a Satisfactory/Unsatisfactory/Audit (S/U/A) basis.  
  
No student may change the grading option of a subject after the deadline set by the Office of the ADAA or the Office of the Registrar. The change shall only be valid upon the submission of the completed load revision form by the student to the offices concerned, and signed by the receiving office(s).
  31. Six units of FREE ELECTIVES are provided for students to pursue their own interests. They can choose these FREE ELECTIVES only from the outer core curriculum subjects and from subjects not required by their home department/program.

32. Students enrolled in less than twelve units are classified as part-time. Units in freshman basic and bridging subjects ((English 8, 9, and 10, Filipino 8, 9, and 10, and Math 1, 1.1, and 1.2)) are counted as part of the load. Cross-registrants (from other schools) and part-time students are subject to all the academic regulations of the Loyola Schools.
33. The student's grade in any subject is computed at the end of each semester. A grade is based not only on formal examinations, but on every kind of academic evidence: recitation, term papers, book reports, written and oral tests, class participation, student's conduct in class, field work, etc. Attendance does not form part of the student's grade for the subject.
34. A student who cheats in any test or examination receives a grade of F (FAILURE) for that test or examination.
35. The academic performance of students is expressed by the marks they receive in the subjects enrolled. These marks, their respective meanings, and corresponding quality point values, are as follows:
  - A Fulfillment of the requirements set for the subject to a high degree of academic performance as shown by both an intelligent grasp and superior critical appreciation of the course content.  
**Quality Point Value: 4**
  - B Fulfillment of the requirements set for the subject to a degree above satisfactory performance as shown by both an intelligent grasp and rudimentary critical appreciation of the course content.  
**Quality Point Value: 3**
  - C Satisfactory fulfillment of the requirements set for the subject as shown by a fairly intelligent grasp of the course content.  
**Quality Point Value: 2**

The grades of B+ (Quality Point Value: 3.5) and C+ (Quality Point Value: 2.5) are given for those inevitable borderline cases which, in the professor's estimation, do not merit the higher grade and at the same time definitely deserve better than the lower grade or mark.

- D Passing fulfillment of the minimum requirements for the subject.  
**Quality Point Value: 1**
- F Failure: Non-fulfillment of minimum requirements for the subject.  
**Quality Point Value: 0**
- W Withdrawal from a subject without permission.  
**Quality Point Value: 0**

Besides the marks indicated above, the following supplementary marks also appear on a student's report:

- INC (temporary grade)
- NE No final examination
- WP Withdrawal from a subject with permission. **No quality point**

**AUD Audit: No quality point**

- S Satisfactory performance in a remedial, non-academic, or non- required subject
- U Unsatisfactory performance in a remedial, non-academic, or non- required subject

36. The Quality Point Index (QPI) or weighted average is the measure of the quality of a student's general academic performance for a regular academic term. As such, the student's promotion, graduation, honors, or separation from the Loyola Schools are determined by whether or not the QPI requirement for a given academic year, which consists of two semesters and the preceding summer, is satisfied.

The Quality Point Index is computed by:

- a. Multiplying the quality point value of the letter grades in each subject by the number of units of credits in the subject, and
  - b. Adding these products and dividing the result by the total number of units taken during the academic term or year.
  - c. Grades in basic and bridging subjects (English 8, 9, and 10, Filipino 8, 9, and 10, and Math 1, 1.1, and 1.2), P.E. and N.S.T.P. are not included in the computation of the QPI.
37. The students are responsible for ascertaining their general academic performance periodically and especially at the end of each semester.
38. Students should ensure that they have taken and passed all required subjects/courses towards the completion of their degrees. Students should regularly review their Individual Programs of Study (IPS) on the Ateneo Integrated Student Information System (A.I.S.I.S.) to ensure that they do not lack any subjects to graduate on time. If subjects/courses are not yet listed as "passed" on AISIS but the student believes he/she has already passed the said subjects/courses, the student should report to the Office of the Registrar immediately.
39. Rules on promotion, graduation, and separation of a student from the Loyola Schools:
- a. The promotion, graduation or separation of a student from the Loyola Schools is determined by the QPI of the student.
  - b. For unconditional promotion to sophomore year, a freshman should secure a year's QPI of 1.80 or above at the end of the second semester of the academic year.
  - c. The required year's QPI at the end of the second semester of sophomore year for eligibility for junior year is 1.90.
  - d. The required year's QPI at the end of the second semester of junior year for eligibility for senior year is 2.00.
  - e. The required year's QPI for seniors for eligibility for graduation is 2.00.

- f. No student may repeat more than once any subject where a failure has been incurred. Exception to this rule shall be made upon recommendation of the Chairpersons of the departments concerned.
  - g. No student who incurred a failure or deficiency in any subject during a semester shall be permitted a recovery overload during the following semesters.
  - h. Upon approval of the Chairperson, graduating seniors may be allowed a 3-unit overload per semester.
  - i. Students who do not meet the QPI requirement may be admitted on probation and allowed to continue their studies at the discretion of the Vice President for the Loyola Schools after consultation with the Standards Committee. Students must write a letter of appeal to the Standards Committee (through the Office of the Associate Dean for Academic Affairs) if they apply for probation.
  - j. A student may be granted probation only once during his/her entire stay in the Loyola Schools upon the recommendation of the Standards Committee to the Vice President for the Loyola Schools. No second probation is given.
40. Freshman and sophomore students are required to register for all core curriculum subjects designated by their program. They shall not be allowed to withdraw from these subjects.

Exceptions to this rule shall be made by the Associate Dean for Academic Affairs. Juniors and Seniors shall not be allowed to drop subjects so that their total load falls below twelve units.

41. In extraordinary circumstances, when some requirement of a subject (except the final examination) has not been met, the student shall be given the temporary grade of INC (Incomplete). A student with a grade of INC is ineligible to enroll for the following semester. No student on Probation shall be given the grade of INC or NE. The INC mark is changed to a letter grade following this procedure:
- a. submission of completed work to the instructor
  - b. evaluation by the instructor and submission of letter grade to the Chairperson
  - c. submission by the Chairperson of the grade to the Registrar.

The entire procedure must be completed within two weeks after the distribution of grades so that no marks remain INC after the two-week period. Any request for extension of the INC shall be subject to the approval of the Associate Dean for Academic Affairs.

42. The temporary grade of NE shall be reported to the Registrar for every subject in which a student is absent from the final examination. In case the absence is not approved by the ADAA, the grade for the examination shall be changed automatically to F. If the absence has been caused by some grave reason, the student should apply to the Office of the ADAA not later than the second day following the examination for approval for a deferred examination. When, in the judgment of



ADAA, the reason for the absence has been sufficiently justified, the student shall be granted the privilege of a deferred examination.

43. Honors are awarded at the end of each semester on the basis of the QPI average. The QPI average is based on a semestral load of at least fifteen academic units with all the grades carrying the corresponding Quality Point Values.
  - a. First Honors are awarded to students with a general average of 3.70 and above.
  - b. Second Honors are awarded to students with a general average of 3.35 or above but lower than 3.70.
44. To be eligible for Graduation Distinction, students must have completed a minimum of 80 percent of the total number of units required for graduation in their program in the Loyola Schools and only resident credits shall be included in the computation. Latin honors and honorable mention are awarded on the basis of the following overall QPI at the time of graduation:
  - a. Summa Cum Laude = 3.87 - 4.00
  - b. Magna Cum Laude = 3.70 - 3.86
  - c. Cum Laude = 3.50 - 3.69
  - d. Honorable Mention = 3.35 - 3.49

Students who graduate from more than one program may receive Latin honors or honorable mentions only once.

45. A student may take a subject in another school with the approval of the Department Chairperson, the Associate Dean for Academic Affairs, and the Registrar, based on the following conditions:
  - a. the subject is not a core curriculum subject
  - b. the subject is not offered in the Loyola Schools for that particular term
  - c. the subject is validated by the department concerned.

Forms are available at the Office of the ADAA.

46. All Filipino students, usually sophomores, are required to enroll in a National Service Training Program, which shall consist of the following service components:
  - a. The Reserve Officers' Training Corps (ROTC)
  - b. The Literacy Training Service
  - c. The Civic Welfare Training Service

Students, male and female, shall be required to complete one of the above NSTP components for an academic period of two semesters (three units per semester) during their first two years of residence in the Loyola Schools unless official exemption is obtained.

The ROTC option is jointly supervised by the Office of ADAA and the AAST (Ateneo Department of Air Science and Tactics). The Literacy Training Service and the Civic Welfare Training Service components are jointly supervised by the Office of

the Associate Dean for Student Affairs (ADSA) and the Office for Social Concern and Involvement (OSCI).

47. Physical Education Requirement: All regular students are required to complete eight units of Physical Education in the four semesters comprising their freshman and sophomore years. Students who fail any Physical Education subject must take it the following summer session so that prior to entering junior year, they shall have completed the required eight units. The Commission on Higher Education prohibits students from taking more than two units of P.E. in one semester or summer session.

Physically challenged students are not exempted from the Physical Education requirement. They are given a special program upon examination by the Loyola Schools physician. While members of varsity teams are excused from the regular P.E. classes, they are, however, required to:

- a. sign up for an activity class
- b. take and pass the semestral physical fitness tests.

Failure to comply with these requirements shall result in a grade of F.

48. No student may receive official school documents unless all financial obligations to the Loyola Schools are settled. Examples of official school documents are the following:
- a. Transcript of records
  - b. All academic certifications
  - c. Diploma



*the* CORE  
CURRICULUM



# **THE CORE CURRICULUM**

## **THE WORLD TODAY**

The world today is significantly affected by the related processes of globalization, nationalism, and localism.

Societies are becoming interdependent both within and across national boundaries. Globalization, the increasing interdependence across national boundaries, is promoted by the growth of multinational companies, foreign investments, the liberalization of imports, the shift towards exports, the easy movement of migrant labor, and the new information technology. But while this globalization facilitates cooperation across borders, it has also generated greater competition between and within nations. Thus, as nation-states compete with each other to attract investments and to produce goods and services, cities within them also compete with each other in the same ways. Together with this globalization, nationalism and local allegiances on the regional level continue to be important. The nation-state is expected to provide safety nets in the competition with foreigners, and to guarantee law, order, justice, education, and basic medical care, among others. At the same time, because of the diffusion of democratic ideals, and the alienating effects of global forces, people now demand access to decision-making, particularly in local political bodies.

Globalization and its consequences have been possible on account of great scientific and technological advances. Thus science and technology represent for many the vitality and intellectual force of our era. At the same time, the resulting control of nature—more specifically the effective manipulation of ecosystems and disruption of patterns of biodiversity—has stretched our planet's capacity to sustain life now and in the future.

The phenomenon of globalization therefore calls for a deep understanding of newly emerging human and societal behavior. It demands knowledge of the multiplicity of cultural, economic and political structures – all interconnected, all acting to define globalization and all constantly changing because of globalization. Moreover, the emergent culture—primarily driven by the globalization of commerce between nations—could lead to a materialistic worldview that would significantly influence personal and social interaction. Such a “culture” may lead to secularism, where reflection on human and spiritual values will no longer guide contemporary discourse and action.

## **THE PHILIPPINES TODAY**

In this new millennium, the Filipino people need to consolidate gains and overcome threats along the path toward modern sovereign nationhood. Recent developments, both local and global, have brought about improvements, but what remains crucial is the need to assess long-term impact on the people and their ability to chart their future responsibly.

The modest signs of improvement in the economy in the past few years warrant some confidence in continuing economic growth in the future. However, a wide range of indicators still points to the continuing poverty of most citizens and to the persistence of structures that prevent the masses from benefiting from the economic gains.

Democratic processes have been restored, but there continue to be threats on these. Although there are promising signs, such as the Local Government Code, the empowerment of the people remains in many instances an elusive goal.

Philippine culture is rich and vital. It features a diversity of social and economic relations that indicate a strong regard for the family, a deep sense of the sacred, and tenacity in the face of crisis. However, our culture is also marked by excessive personalism and family centeredness which weaken a sense of nation, and easily lead to social fragmentation.

Given this tendency for particularism, a more universal view that stresses solidarity and participation needs to be promoted. Our Christian faith can strengthen the good inherent in our culture and correct what is excessive and deficient in view not only of the national goals of greater democracy, economic equality, social peace and ecological integrity but also of the quest for a more humane and spirit-filled world.

## THE PERSON WHO CAN CONTRIBUTE TO SUCH A WORLD

To be productive citizens in the changing international and national contexts, Ateneo graduates of this generation must be:

*Critically rooted in their culture* – sure of what and who they are, having studied their history and the institutions and processes that have shaped their experience, aware and appreciative of their language, literature, and the arts.

*Proactive in the global context* – informed about developments around the world and in contact with cultures of other peoples; exposed to a range of artistic expressions, and to the study of business, economics, human resource development, technology, and environment management, they possess the ability to communicate with the world.

*Imbued with the scientific spirit* – respectful of facts, critical of unfounded opinions, and open to alternative viewpoints, they are able to integrate the values of science and technology with human and Christian values.

*Professionally trained* – finely honed in their technological/professional skills, which give them a competitive edge as leaders and agents of change in their areas of specialization and expertise.

*Strongly oriented to faith and justice* – having a unified, constructive, well-argued, firmly articulated vision of life grounded in the Christian faith, which integrates the many dimensions of their lives and makes senses of them as a whole. They become a leaven in the renewal of the Church and of society, leaders imbued with “faith that does justice.”

## GENERAL PRINCIPLES UNDERLYING THE CORE CURRICULUM

The general principles that underlie the core curriculum make operative educational strategies that have been a constitutive part of Jesuit education and of the history of the Ateneo. These are traditional principles whose contemporary expression represents current efforts toward an effective response to the increasing complexity of the contemporary world and the present state of Philippine education.

These general principles are: formation of the competent person-for-others, student-centered learning, and integrated learning.

- ***Formation of the competent person-for-others***

***General goals of Ateneo education*** – A tradition of excellence in both academics and service—*eloquentia, sapientia* and *humanita*—is the hallmark of Jesuit education. The core curriculum strives for academic competence and value formation.

Competence refers to the skills and knowledge expected of every student who undergoes the core curriculum and training in a specific academic field. Among the skills and knowledge sought are basic linguistic and rhetorical skills, synthetic and critical thinking as practiced in various disciplines, and leadership and interpersonal skills. This body of knowledge consists of the basics across the board in Literature, History, Mathematics, the Natural and Social Sciences, as well as basic technical knowledge in the student's specific field.

Value formation refers to the communication of human and Christian wisdom and of corresponding ways of proceeding.

***Goal in terms of student outcome*** – All programs of study, whether in the Humanities or the Natural and Social Sciences, seek to form competent persons-for-others who are academically excellent, spiritually mature, socially aware, and culturally rooted individuals.

***Relation between core and major courses*** – Competence and formation, as the general goals of Ateneo education, are accomplished through both the core and major curricula. In terms of the general goals, there should be no inconsistency in course content and methodology, or in the attitudes of faculty of the different departments and programs. Formation is not the exclusive domain of the core curriculum; nor expertise, of the major curriculum. Formation takes place in the major programs; and preparation for and integration of professional work involves the core curriculum.

The core curriculum develops basic skills and imparts general knowledge in different disciplines within the Jesuit framework of formative education. These skills and knowledge constitute the building blocks with which the major program and its faculty initiate the student into a particular field. As the student gains expertise in the field, the core curriculum continues to situate this expertise within human and Christian wisdom and values.

- ***Emphasis on student-centered learning***

One of our most important goals in the Loyola Schools is the development of a *community of learners* among our students. By this is meant the formation of our students as persons who love and take joy in learning, who take responsibility for their learning under the guidance of their teachers, who are reflective, analytical, critical, and strategic in their thinking, and who are resourceful, creative, and motivated lifelong learners.



Developing our students in this way requires *student-centered learning*.

*Student-centered learning* is a system of instruction that places the student in its heart. It is teaching that facilitates active participation and independent inquiry, and seeks to instill among students, the joy of learning inside and outside the classroom.

Thus, the term “student-centered learning” can be applied broadly to almost any type of learning activity. In the context of the core curriculum, it refers specifically to those teaching and learning methodologies that will help our students develop the attitude, the resourcefulness, and the skills necessary for them to become lifelong, strategic, and motivated learners, eager and able to learn outside the classroom (even outside the Ateneo), with an ability for independent inquiry and a sense of responsibility for their own learning.

This goal can be achieved only if we recognize that learning is a process shared by both student and teacher. Far from diminishing the role of teachers, this pedagogical strategy underscores their importance. Through lectures and other teaching methodologies, the teacher provides the necessary content-based learning and plays the role of formator. Lectures, when delivered well, are excellent tools for developing the critical thinking necessary for lifelong learning. Through class discussions, the teacher can point to further areas of interest which students are motivated to pursue beyond the classroom, either individually or in a group, via library research or fieldwork. Outside of class, through a fuller use of the practice of student consultation, the teacher can guide the students in their work, and steer them in the right direction. All these activities are animated by the spirit of *cura personalis* in Jesuit education.

The interaction between teacher and student in the classroom is only one of various possible modes of learning, and that there is also a lot that they can learn on their own outside of class. At the same time, they should not fail to appreciate the value of this interaction. While highlighting the need to require our students to engage in learning activities beyond the classroom, student-centered learning is *not* about minimizing the importance of learning activities *within* the classroom. Teachers are encouraged to experiment with alternative teaching methods, but *not* discouraged from their continued use of effective classroom lectures. Student-centered learning is also *not* about devaluing the knowledge, expertise, and authority of teachers. In fact it demands more from them and draws on the teacher’s wellspring of creativity, forward planning, flexibility, and resourcefulness.

- ***Integration***

Genuine integration is based on respect for the methods and traditions of each discipline, and an appreciation of their inter-related contributions to the common fund of human wisdom.

Although the locus of integration is the student and how his/her education shapes his/her life, courses in the core curriculum facilitate the student’s understanding of the inter-relatedness of the many worlds one lives in. The Natural Sciences situates the student in the world and the processes of nature. The Social Sciences and History introduce the student to the world created by human societies and to the different descriptions of the experience of human society. The Humanities illuminate the natural and human worlds through the use of imagination and help in the creation of new visions. Philosophy and Theology reveal the foundational structure of all reality in terms of human reason and divine grace.

## THE CORE CURRICULUM SUBJECTS

### Languages and Literature Cluster

#### ENGLISH AND FILIPINO SUB-CLUSTER

The general objectives of this sub-cluster are 1) to sharpen basic language skills (listening and speaking, reading and writing) both in English and Filipino so that students can communicate in both and use both to learn other subject areas, and 2) to deepen their knowledge and appreciation of various types of literature shaped by different cultural contexts. Through the core courses in this sub-cluster, the student is trained to think critically and to communicate effectively, and to be in touch with the world of creative imagination.

Traditionally associated with the aims of Jesuit humanistic education, this sub-cluster remains an important locus for evoking student reflection on the human condition through contact with the worlds of the imagination and through exposure to the nuances of languages.

#### ENGLISH (12 UNITS)

##### DEPARTMENT OF ENGLISH

EN 10	Introduction to College English (6 non-academic units)
EN 11	Communication in English I (3 units)
EN 12	Communication in English II (3 units)
LIT 13	Introduction to Fiction (3 units)
LIT 14	Introduction to Poetry and Drama (3 units)

#### FILIPINO (9 UNITS)

##### DEPARTMENT OF FILIPINO/*KAGAWARAN NG FILIPINO*

FIL 10	Basic Filipino/ <i>Panimulang Filipino</i> (3 non-academic units)
FIL 11	Communication Arts in Filipino I/ <i>Sining ng Pakikipagtalastasan sa Filipino I</i> (3 units)
FIL 12	Communication Arts in Filipino II/ <i>Sining ng Pakikipagtalastasan sa Filipino II</i> (3 units)
FIL 14	Survey of Philippine Literature/ <i>Panitikan ng Pilipinas</i> (3 units)

### Foreign Languages Sub-Cluster

The general objective of this sub-cluster is to make our students aware of a culture other than their own through an introduction to a foreign language.

### **FOREIGN LANGUAGE AND CULTURE (3 UNITS)**

#### **DEPARTMENT OF MODERN LANGUAGES**

FLC 1 SP	Basic Spanish 1: Language and Culture
FLC 1 GR	Basic German 1: Language and Culture
FLC 1 FR	Basic French 1: Language and culture
FLC 1 BH	Basic Bahasa Indonesia 1: Language and Culture
FLC 1 ITAL	Basic Italian 1: Language and Culture
FLC 1 LAT	Basic Latin
FLC 1 POR	Basic Portuguese 1: Language and Culture
FLC 1 RUS	Basic Russian 1: Language and Culture
FLC 1 KOR	Basic Korean 1: Language and Culture

#### **CHINESE STUDIES PROGRAM**

FLC 1 CHN	Chinese Mandarin and Culture
-----------	------------------------------

#### **JAPANESE STUDIES PROGRAM**

FLC 1 JSP	Japanese Language and Culture
-----------	-------------------------------

## **Natural Sciences and Mathematics Cluster**

### **NATURAL SCIENCES SUB-CLUSTER**

The general objectives of the natural sciences sub-cluster are 1) to give our students an understanding of the world of nature as evidenced by science and technology, and 2) to introduce them to the scientific mindset through an appreciation of the scientific method. Thus, special emphasis is placed on “hands-on” experience of the scientific enterprise.

Moreover, core courses in this sub-cluster form students by making them understand and respect the natural world and environment, by stimulating critical thinking, and by instilling values of integrity, discipline and creativity.

### **NATURAL SCIENCE (11 UNITS)**

SCI 10	Science and Society (3 Units)
--------	-------------------------------

#### **DEPARTMENT OF BIOLOGY**

BI 5	Biotechnology for Everyone, Lecture (3 units)
BI 6	Biotechnology for Everyone, Laboratory (1 unit)
BI 7	An Introduction to the Plant World, Lecture (3 units)
BI 8	An Introduction to the Plant World, Laboratory (1 unit)
BI 9	An Introduction to the Animal World, Lecture (3 units)
BI 10	An Introduction to the Animal World, Laboratory (1 unit)

#### DEPARTMENT OF CHEMISTRY

CH 1	General Chemistry, Lecture (3 units)
CH 2	General Chemistry, Laboratory (1 unit)

#### DEPARTMENT OF ENVIRONMENTAL SCIENCE

ES 10	Introduction to Environmental Science, Lecture (3 units)
ES 12	Introduction to Environmental Science, Laboratory (1 unit)

#### DEPARTMENT OF PHYSICS

PS 1	Introductory Physics, Lecture (3 units)
PS 2	Introductory Physics, Laboratory (1 unit)

### Mathematics Sub-Cluster

The general objectives of the Mathematics sub-cluster are 1) to develop the student's analytical and problem-solving skills, and 2) to provide the mathematical background necessary for specific major programs.

#### MATHEMATICS (6, 9 OR 15 UNITS)

#### DEPARTMENT OF MATHEMATICS

MA 1	Introduction to College Algebra (3 non-academic units)
MA 11	Modern Mathematics I (3 units)
MA 12	Modern Mathematics II (3 units)
MA 18A	Principles of Modern Mathematics I (3 units)
MA 18B	Principles of Modern Mathematics II (3 units)
MA 19	Applied Calculus for Business (6 units)
MA 20	Calculus for Economists (6 units)
MA 21	Mathematical Analysis I (6 units)
MA 22	Mathematical Analysis II (3 units)

### Social Sciences and History Cluster

#### SOCIAL SCIENCES SUB-CLUSTER

This sub-cluster helps students 1) understand human behavior and social reality from a social scientific perspective, 2) critically form and act upon rational value judgments on the basis of such understanding, and 3) learn basic concepts and methods of different social sciences.

While each of the Social Sciences applies its distinct method to a specific dimension of human life, they are all characterized by the view of society as a coherent dynamic system of human interaction, by the analytical focus on social problems and issues, and by the significant reliance

on empirical data. Thus their contribution towards a multi-dimensional understanding of the contemporary world is invaluable.

Within the context of Jesuit educational strategy, the Social Sciences cannot be reduced to the technical areas of scientific endeavor where the scientific method is applied to another domain analogous to the natural world. The Social Sciences provide an empirically-based understanding of human society, and so provide an essential foundation for human intervention and social action based on human and spiritual values.

### **SOCIAL SCIENCES (12 UNITS)**

#### **DEPARTMENT OF ECONOMICS**

EC 102            Basic Economics, Agrarian Reform and Taxation (3 units)

#### **DEPARTMENT OF POLITICAL SCIENCE**

POS 100           Politics and Governance (3 units)

#### **DEPARTMENT OF PSYCHOLOGY**

PSY 101           General Psychology (3 units)

#### **DEPARTMENT OF SOCIOLOGY AND ANTHROPOLOGY**

SA 21            Introduction to Sociology and Anthropology (3 units)

### **History Sub-Cluster**

The general objective of this sub-cluster is to help students understand contemporary society against the background of the past, especially as this past is recorded and interpreted in the form of narratives.

Using such narratives and other documentary evidence of the past, the historical method seeks to distinguish fact from falsehood and thus reveal the underlying presuppositions of our individual and collective self-understanding. As a result, History keeps the memory of the past human achievement and failure alive and serves as a guide to a future informed by the past and formed through responsible action.

By laying out the entirety of collective human experience, it provides data that other disciplines such as the Social Sciences and the Humanities can reflect on. Moreover, this data is an invaluable aid to philosophical and theological inquiry. Because of its method as well as its substance, History thus occupies a significant place in Jesuit education.

### **HISTORY (9 UNITS)**

#### **DEPARTMENT OF HISTORY**

HI 165            Rizal and the Emergence of the Philippine Nation (3 units)

HI 166            Philippine History (3 units)

HI 16 or           Asian History (3 units) or

HI 18            Western History (3 units)

## **Philosophy and Theology Cluster**

This cluster remains the centerpiece of the core curriculum. Philosophy not only trains students in the systematic use of reason in facing foundational issues, but also introduces them to the tradition of wisdom. Theology deepens the faith of students by giving them an integrated understanding of its beliefs and a solid foundation in Scripture and Church teaching. Moreover, core courses in both departments seek to lead students to a reasoned faith response integral to their reflective skills and knowledge.

The courses in this cluster provide an explicit locus for integration of the Ateneo goals of competence and value formation on the level of programs and of the individual student. This integration is facilitated through greater awareness of the contribution of the Humanities, and the Natural and Social Sciences. On account of this, the Philosophy and Theology cluster is continually challenged to be at the forefront of dialogue and growth in the university.

### **PHILOSOPHY (12 UNITS)**

#### **DEPARTMENT OF PHILOSOPHY**

PH 101	Philosophy of the Human Person I (3 units)
PH 102	Philosophy of the Human Person II (3 units)
PH 103	Philosophy of Religion (3 units)
PH 104	Philosophy of Moral Values (3 units)

### **THEOLOGY (12 UNITS)**

#### **DEPARTMENT OF THEOLOGY**

TH 121	An Introduction to Doing a Catholic Theology (3 units)
TH 131	Marriage, Family Life, and Human Sexuality in a Catholic Perspective (3 units)
TH 141	A Theology of the Catholic Social Vision (3 units)
TH 151	The Catholic Commitment to Today's Filipino: A Synthesis (3 units)

## **Free Electives**

Six (6) units of free electives are provided for students to pursue their own interests.



*the*  
SCHOOL  
*of* HUMANITIES

Maria Luz C. Vilchez, Ph. D.  
*DEAN*





1/F Horacio de la Costa Hall  
(632) 426-6001 loc. 5310/5311  
fax: (632) 426-6120  
english.soh@ateneo.edu

## ENGLISH

**Maria Luz C. Vilches**  
*Chair*

**Remmon E. Barbaza**  
*Acting Chair*

**Danilo Francisco M. Reyes**  
*Associate Chair*

**Faculty**  
**Professor**  
Maria Luisa T. Reyes

**Associate Professors**  
Ma. Isabel P. Martin  
Marianne Rachel G. Perfecto  
Maria Luz C. Vilches

**Assistant Professors**  
Alexis Augusto L. Abola  
Oscar V. Campomanes  
Ana Marie O. Fernandez  
Celeste Aida A. Jugo  
Margarita R. Orendain  
Ma. Socorro Q. Perez  
Maximino U. Pulan Jr.  
Danilo Francisco M. Reyes  
Rica Remedios B. Santos  
Vincenz C. Serrano  
Mary C. Thomas  
Charlie S. Veric

**Instructors**  
Irene B. Benitez  
Maria Luz Elena N. Canilao  
Mark Anthony R. Cayan  
Rachelle T. Cayog  
Priscilla Angela T. Cruz  
Emar Ivery D. Del Campo  
Frances Paola G. Doplon  
Michael Ian Benedict P. Estipona

(cont'd)

The Department of English seeks to be a center for literary-cultural studies, giving high-level instruction from a developing nation's perspective. It engages in and publishes significant research to create a distinctively Philippine theory. It also aims to be a leading institution in developing the competencies of students, teachers, and other language users through relevant language education and research.

***Instructors***

Apricinia B. Fernandez  
Alona U. Guevarra  
John B. Labella  
Gad S. Lim  
Miguel Antonio N. Lizada  
Jocelyn S. Martin  
Maria Gabriela Johanna P. Martin  
Lara Katrina T. Mendoza  
Anna Marie S. Oblepias  
Devi Benedicte I. Paez  
Jhoanna Michelle G. Paterno  
Lorenzo Alexander L. Puente  
Louie Jon A. Sanchez  
Annette A. Soriano  
Cecilia A. Suarez

***Assistant Instructors***

Roy Tristan B. Agustin  
Jose Mari B. Cuartero  
Gino Francis S. Dizon  
Cesar Miguel G. Escaño  
Francis Sollano

***Lecturers***

Victor Felipe S. Bautista  
Regina Angelica Theresa A. Bengzon  
Deirdre Patricia Z. Camba  
Inez Chiara C. Cortes  
Angelica Maria De Asis  
Charlene B. Diaz  
Joceli Julia E. Embuscado  
Laurel Anne F. Fantauzzo  
Maria Natividad I. Karaan  
Roce Jane A. Limoso  
Helen E. Lopez  
Andrea N. Macalino  
Julius C. Martinez  
Maria Angela C. Mina  
Maria Concepcion B. Montenegro  
Daniel Jr. H. Olivan  
John Ryan M. Recabar  
Rea Glaiza R. Reyes  
Carlo Antonio R. Rivera  
Ara Marie Leal. R. Rodriguez  
Edward-David E. Ruiz  
Elineth Elizabeth L. Suarez  
Samuel Julian F. Tacujan

**Faculty of Other Departments**

***Assistant Professor***

Jayson P. Jacobo

***Instructors***

Melissa Vera M. Maramara  
Glenn S. Mas

## BACHELOR OF ARTS IN LITERATURE (ENGLISH)

The Bachelor of Arts in Literature (English) is a program in general literature in English from various European, American, African, Latin American, and Asian traditions, including Philippine literature and criticism in English. Emphasis is on the study of a range of theoretical and critical approaches in the analysis of literature.

Graduates enter a wide range of careers, including work in communication arts, human resources development, advertising and publicity, arts administration, teaching, and research. Many graduates also become lawyers, executives and managers, as well as social workers and civil servants.

### FIRST YEAR

<u>First Semester</u>	<u>Units</u>	<u>Second Semester</u>	<u>Units</u>
EN 11 Communication in English I	3	EN 12 Communication in English II	3
LIT 13 Introduction to Fiction	3	LIT 14 Introduction to Poetry and Drama	3
MA 11 Modern Mathematics I	3	MA 12 Modern Mathematics II	3
FIL 11 Sining ng Pakikipagtalastasan sa Filipino I	3	FIL 12 Sining ng Pakikipagtalastasan sa Filipino II	3
NATSCI 1A Natural Science, Lecture	3	NATSCI 2A Natural Science, Lecture	3
NATSCI 1B Natural Science, Laboratory	1	NATSCI 2B Natural Science, Laboratory	1
PE 1 Physical Education	(2)	PE 2 Physical Education	(2)
INTAC 1 Introduction to Ateneo Culture and Traditions	(0)	INTAC 2 Introduction to Ateneo Culture and Traditions	(0)
<i>Total:</i>	<i>16</i>	<i>Total:</i>	<i>16</i>

### SECOND YEAR

<u>First Semester</u>	<u>Units</u>	<u>Second Semester</u>	<u>Units</u>
TH 121 An Introduction to Doing a Catholic Theology	3	SA 21 Introduction to Sociology and Anthropology	3
FIL 14 Panitikan ng Pilipinas	3	PSY 101 General Psychology	3
FLC Foreign Language and Culture	3	SCI 10 Science and Society	3
HI 16/HI 18 Asian History/Western History	3	LIT 126.2 Western Literature II: Neoclassicism to the Modern Age	3
LIT 126.1 Western Literature I: The Ancient World to the Renaissance	3	LIT 101 Introduction to Literary Studies	3
PE 3 Physical Education	(2)	PE 4 Physical Education	(2)
NSTP 1 National Service Training Program	(3)	NSTP 2 National Service Training Program	(3)
<i>Total:</i>	<i>15</i>	<i>Total:</i>	<i>15</i>

### THIRD YEAR

<u>First Semester</u>	<u>Units</u>	<u>Second Semester</u>	<u>Units</u>
PH 101 Philosophy of the Human Person I	3	PH 102 Philosophy of the Human Person II	3
TH 131 Marriage, Family Life and Human Sexuality in a Catholic Perspective	3	EC 102 Basic Economics, Agrarian Reform and Taxation	3
HI 165 Rizal and the Emergence of the Philippine Nation	3	LIT 161 Philippine Literature in English	3
LIT 112.1 Classical to Modern Literary Criticism	3	LIT 112.2 Contemporary Literary Criticism	3
LIT ELECTIVE	3	LIT ELECTIVE	3
FREE ELECTIVE	3		3
<i>Total:</i>	<i>18</i>	<i>Total:</i>	<i>18</i>

### FOURTH YEAR

<u>First Semester</u>	<u>Units</u>	<u>Second Semester</u>	<u>Units</u>
PH 103/ PH 104 Philosophy of Religion/ Foundations of Moral Value	3	PH 103/ PH 104 Philosophy of Religion/ Foundations of Moral Value	3
TH 141/ TH 151 A Theology of the Catholic Social Vision/ The Catholic Commitment of Today's Filipino: A Synthesis	3	TH 141/ TH 151 A Theology of the Catholic Social Vision/ The Catholic Commitment of Today's Filipino: A Synthesis	3
HI 166 Philippine History	3	POS 100 Politics and Governance	3
LIT 127.1 Third World Literature I	3	LIT 127.2 Third World Literature II	3
LIT 198 Independent Research I	3	LIT 199 Independent Research II	3
LIT ELECTIVE	3	FREE ELECTIVE	3
<i>Total:</i>	<i>18</i>	<i>Total:</i>	<i>18</i>

Total Number of Academic Units: 134  
Curriculum Effective Freshman Batch SY 2002-2003

## MINOR IN LITERATURE

The program is open to all Loyola Schools undergraduate students who are at least in second year and have no grade lower than C in their four English courses: EN 11, EN 12, LIT 13, and LIT 14.

Students are required to complete 12 more units of literature subjects or three required subjects and an elective, with a grade no lower than C. The subjects are as follows:

LIT 126.1	Western Literature I: The Ancient World to the Renaissance	OR	3 units
LIT 126.2	Western Literature II: Neoclassicism to the Modern Age		3 units
LIT 161	Philippine Literature in English		3 units
LIT 127.1	Third World Literature I	OR	3 units
LIT 127.2	Third World Literature II		3 units
Any LIT elective			3 units

## COURSE OFFERINGS

### EN 8

#### BASIC ENGLISH SKILLS 1

##### Non-credit

This course develops students' study skills and strategies to prepare them for the academic demands of their college courses. It hones students' reading, speaking, listening and basic writing skills through tasks and activities that focus on English language usage.

### EN 8.1

#### LEARNING ENGLISH FOR ACADEMIC PURPOSES

##### (L.E.A.P.) I

##### 6 units

L.E.A.P. I develops the academic skills of learners and focuses on the fundamentals of oral communication, expository writing, and research. A grammar review is included to improve their language proficiency. Tasks are provided to help them communicate more effectively in a multicultural and global context.

### EN 9

#### BASIC ENGLISH SKILLS 2

##### Non-credit

This course develops students' reading and writing competence in English to prepare them for the communicative requirements of their college courses. It calls for intensive work in basic reading and writing, focusing on effectively developing paragraphs and reading with accuracy.

### EN 9.1

#### LEARNING ENGLISH FOR ACADEMIC PURPOSES

##### (L.E.A.P.) II

##### 6 units

L.E.A.P. II exposes students to a variety of listening and reading texts that develop their inferential and analytical skills. It introduces them to the basics of academic writing. Tasks are designed to sharpen their cultural and critical awareness and enhance their oral communication skills further.

### EN 10

#### INTRODUCTION TO

#### COLLEGE ENGLISH

##### Non-credit

This course prepares students for the various communication requirements of their college courses. It focuses on developing their skills of efficient listening for purposeful activities, speaking and writing with accuracy, coherence, clarity and appropriateness, and active reading for critical thought.

### EN 11

#### COMMUNICATION IN ENGLISH I

##### 3 units

This English language course develops students' communicative skills necessary for their academic study. This is primarily focused on, but not limited to, the development of reading and writing skills across the curriculum.

**EN 12**  
**COMMUNICATION IN**  
**ENGLISH II**

**3 units**

This course is a follow-up language course to EN 11.

**EN 101**  
**ADVANCED EXPOSITORY**  
**WRITING**

**3 units**

This course continues to develop the writing and reading skills and macro-communication skills students have learned in EN 12 merit class. It further practices students in different forms of nonfiction writing, both creative and critical, by combining traditional classroom and seminar/workshop methods.

**LIT 13**  
**INTRODUCTION TO FICTION**  
**3 units**

This course is a study of the modes, conventions, and uses of fiction. The course presents a range of reading strategies related to the mode, form, and individual and social functions of fiction in exploring vital connections among culture, history, and fiction.

**LIT 14**  
**INTRODUCTION TO POETRY**  
**AND DRAMA**

**3 units**

This course is an introduction to poetry and drama in English. The course trains students in the analysis, evaluation, and appreciation of poetry and drama by familiarizing them with the elements, forms, and practices of these genres.

**LIT 101**  
**INTRODUCTION TO**  
**LITERARY STUDIES**

**3 units**

This course is an introduction to undergraduate literary research and general scholarship, as well

as basic issues in literary theory and criticism.

**LIT 106**  
**APPROACHES TO THE**  
**TEACHING OF LITERATURE**

**3 units**

This course is a practical study of approaches to the teaching of literary texts such as the short story, poetry, drama, and essay for secondary and collegiate levels. The course includes module materials preparation and syllabus design. Students are required to teach a demonstration class.

**LIT 107**  
**APPROACHES TO THE**  
**TEACHING OF LANGUAGE**

**3 units**

This course is a practical study of approaches to the teaching of language (i.e., listening, speaking, reading, writing, grammar) for secondary and collegiate levels. The course includes module materials preparation and syllabus design. Students are required to teach a demonstration class.

**LIT 112.1**  
**CLASSICAL TO MODERN**  
**LITERARY CRITICISM**

**3 units**

This course is an introduction to literary criticism from five Western periods: the Classical Age, the Middle Ages and the Renaissance, the Age of Enlightenment, the Romantic Period, and the Modern Age.

**LIT 112.2**  
**CONTEMPORARY LITERARY**  
**CRITICISM**

**3 units**

This course is an introduction to literary criticism from seven critical movements of the contemporary period: Russian Formalism, New Criticism, Reader-Response Criticism and Reception Theory, Psychoanalytic

Criticism, Marxist Criticism, Structuralism, and Post-structuralism.

**LIT 114**  
**EUROPEAN MASTERPIECES**

**3 units**

This course is an introduction to representative works that have shaped and influenced European literature, including works by Leo Tolstoy, Gustave Flaubert, and Franz Kafka.

**LIT 121**  
**FOLKLORE I**

**3 units**

This course is an introduction to folklore—its definition, formulae, and conventions—and scholarly approaches to the study of folklore, with an emphasis on literary folklore.

**LIT 122**  
**FOLKLORE II**

**3 units**

This course is an advanced study of the definition, formulae, and conventions of folklore, with emphasis on Philippine folklore and concrete examples from field study.

**LIT 125**  
**CLASSICAL EPIC**

**3 units**

This course is a survey in translation of three Greco-Roman epics (*The Iliad*, *The Odyssey*, and *The Aeneid*) and one Medieval Christian epic (*The Divine Comedy*), focusing on their structure, techniques, and themes.

**LIT 126.1**  
**WESTERN LITERATURE I: THE**  
**ANCIENT WORLD TO THE**  
**RENAISSANCE**

**3 units**

This course is a survey of the literature of the Western World produced between the 10<sup>th</sup> century BC and the late 17<sup>th</sup> century, including representative poetry, drama, prose fiction, and

non-fiction from the Ancient World, the Middle Ages, and the Renaissance.

**LIT 126.2**

**WESTERN LITERATURE II: NEOCLASSICISM TO THE MODERN AGE**

**3 units**

This course is a survey of the literature of the Western World produced from the late 17<sup>th</sup> century to the present, including representative poetry, drama, prose fiction, and non-fiction from the Neoclassical, Romantic, Realist, Modern, and Postmodern periods.

**LIT 127.1**

**THIRD WORLD LITERATURE I**

**3 units**

This course is a survey of African, Asian, and Latin American literature from antiquity to the 1700's, focusing on works selected primarily for their ability to illustrate the strong influence of colonialism.

**LIT 127.2**

**THIRD WORLD LITERATURE II**

**3 units**

This course is a survey of African, Asian, and Latin American literature from the 1800's to the present. The course is organized around seven important literary/post-colonial issues rather than according to historical chronology. The course includes both literary and critical texts.

**LIT 131**

**POETRY TO THE 19TH CENTURY**

**3 units**

This course is a survey of poetry from its earliest beginnings, including Chaucer, Milton, and Shakespeare, and encompassing the Renaissance, the Neoclassical Period, and the Romantic Period.

**LIT 132**

**MODERN POETRY**

**3 units**

This course is an intensive study of representative works and authors of modern poetry designed to develop a critical and a historical approach toward leading and seminal figures in 20<sup>th</sup> century poetry.

**LIT 136**

**CREATIVE WRITING I: FICTION**

**3 units**

This course is a creative writing workshop under the direction of a guest writer with guided writing, discussion, and analysis of students' original short stories, novellas, and novels.

**LIT 137**

**CREATIVE WRITING II: POETRY AND DRAMA**

**3 units**

This course is a creative writing workshop under the direction of a guest writer, with guided writing, discussion, and analysis of students' original poetic and/or dramatic works.

**LIT 138**

**CREATIVE WRITING III: NON-FICTION**

**3 units**

This course is a creative writing workshop under the direction of a guest writer, with guided writing, discussion, and analysis of students' non-fictional works such as personal essays, journals, and travelogues.

**LIT 139**

**CREATIVE WRITING IV: TRANSLATION**

**3 units**

This course is a creative writing workshop/seminar on the art of translation, including an appreciation of the theories, techniques, and complexities of translation.

**LIT 141**

**DRAMA TO THE 19TH CENTURY**

**3 units**

This course is an intensive study of representative plays and playwrights up to the 19<sup>th</sup> century.

**LIT 142**

**MODERN DRAMA**

**3 units**

This course is an intensive study of representative modern plays and playwrights from the late 19<sup>th</sup> century to the early 21<sup>st</sup> century.

**LIT 143**

**CLASSICAL DRAMA**

**3 units**

This course is an intensive study of the classical drama of the Greeks and Romans, including Aeschylus, Euripides, and Sophocles.

**LIT 145**

**SHAKESPEARE: TRAGEDIES**

**3 units**

This course is an introduction to Shakespearean tragedy, including Macbeth, Hamlet, King Lear, and Othello.

**LIT 146**

**SHAKESPEARE: COMEDIES AND HISTORICAL PLAYS**

**3 units**

This course is an introduction to Shakespearean comedies and historical dramatic works, with emphasis on the texts as poetic drama. Historical and biographical materials are used where relevant.

**LIT 147**

**ASIAN DRAMA**

**3 units**

This course is an introduction to Asian drama and a survey of representative works from both classical and modern Asian theater.

**LIT 151**  
**THE NOVEL TO THE 19TH CENTURY**  
**3 units**  
This course is an intensive study of the traditional novel, reviewing its evolution from both narrative and non-narrative antecedents into the genre that emerged in the 18<sup>th</sup> century and underwent variations in the 19<sup>th</sup> century. The readings include twelve novels beginning with Cervantes' *Don Quixote*.

**LIT 152**  
**THE MODERN NOVEL**  
**3 units**  
This course is an intensive study of the modern novel with emphasis on differentiating the modern novel from the traditional novel. The reading list includes twelve novels from the turn of the century to the mid-1960s.

**LIT 161**  
**PHILIPPINE LITERATURE IN ENGLISH**  
**3 units**  
This course is an intensive study of Philippine literature originally written in English from the early 1900s to the present, locating it within the study of Philippine literature recorded and written in the different languages of the Filipino people.

**LIT 162**  
**PHILIPPINE LITERATURE IN SPANISH**  
**3 units**  
An intensive study of representative Philippine writings in Spanish and their writers.

**LIT 163**  
**PHILIPPINE LITERATURE IN THE VERNACULAR**  
**3 units**  
This course is an intensive study of representative Philippine writings in the vernacular languages and their writers.

**LIT 164**  
**PHILIPPINE DRAMA**  
**3 units**  
This course is a study of the history and evolution, texts, and artistic dimensions of different Philippine dramatic forms, from the traditional to the modern.

**LIT 165**  
**PHILIPPINE NOVEL IN ENGLISH**  
**3 units**  
This course is a survey of the Philippine novel in English from the Spanish regime to the present, including works by Rizal, Nollado, Dalisay, Jose, and Santos.

**LIT 171**  
**ASIAN LITERATURE I: INTRODUCTION TO ASIAN LITERATURE IN ENGLISH**  
**3 units**  
This course is a study of the works and trends of Asian Literature written in the English language, including prose, poetry, drama, and essays from various periods from all regions of Asia.

**LIT 172**  
**ASIAN LITERATURE II: CLASSICAL LITERATURE**  
**3 units**  
This course is a study of classical Asian literature.

**LIT 172.1**  
**ASIAN LITERATURE II: CLASSICAL LITERATURE (INTRODUCTION TO CHINESE LITERATURE)**  
**3 units**  
This course is a survey of Chinese literature from the classical to the contemporary period. Given the historical span and wealth of Chinese literature, this course will focus only on major literary genres, writers and masterpieces. English translation of the works will be used.

**LIT 172.2**  
**ASIAN LITERATURE II: CLASSICAL LITERATURE (VEDIC LITERATURE)**  
**3 units**  
This course introduces students to Vedic literature (1500 BC-400 BC): its strata, function, style and cultural significance for past and present India. It describes the impact of the discovery of Vedic in the West. Vedic literature is set against the background of ritual and mythology.

**LIT 172.5**  
**ASIAN LITERATURE III: MODERN SOUTH KOREAN LITERATURE IN TRANSLATION**  
**3 units**  
This course explores fiction produced in South Korea after 1945 to the early 2000s, showing the changes from its establishment as a democratic republic to its influence today as a cultural center in Asia and a key player in the global economy.

**LIT 173**  
**ASIAN LITERATURE III: MODERN LITERATURE**  
**3 units**  
This course is a study of the major printed texts of modern Asian literature.

**LIT 174**  
**ASIAN LITERATURE IV: CONTEMPORARY LITERATURE**  
**3 units**  
This course is a study of contemporary Asian literature, including the influence of present-day economic, historic, political, and literary realities.

**LIT 181**  
**CLASSICAL LITERATURE**  
**3 units**  
This course is an intensive study of the literature of the Ancient World, focusing on drama and poetry, from Homer to Sophocles.



**LIT 182****MEDIEVAL LITERATURE****3 units**

This course is an intensive study of representative works and authors of the Medieval Period, including Chaucer, Dante, and Boccaccio.

**LIT 183****RENAISSANCE LITERATURE****3 units**

This course is an intensive study of representative works and authors of the Age of Enlightenment, including Machiavelli, More, Montaigne, Cervantes, Shakespeare, and Milton.

**LIT 184****NEO-CLASSICAL LITERATURE****3 units**

This course is an intensive study of representative works and authors of the Neoclassical Period, including Moliere, Goethe, Pope, Voltaire, Blake, and Melville.

**LIT 185****ROMANTIC LITERATURE****3 units**

This course is an intensive study of representative works and authors of the Romantic Period, including Whitman, Dickinson, Melville, and Keats.

**LIT 186****MODERN LITERATURE****3 units**

This course is an intensive study of representative works and authors of the 20<sup>th</sup> century, including Eliot, Joyce, and Beckett.

**LIT 187****AMERICAN LITERATURE****3 units**

This course is a survey of representative works and authors of the New World, including Whitman, Dickinson, Nabokov,

Faulkner, Roth, Updike, and Morrison.

**LIT 188****BRITISH LITERATURE****3 units**

This course is an introduction to major British writers and their works, including Milton, Keats, Pound, Forster, and Greene.

**LIT 189****EUROPEAN LITERATURE****3 units**

This course is an introduction to major European writers from the ancient world to postmodernist times.

**LIT 191****LITERATURE AND IDEAS I (FICTION)****3 units**

This course is a study of specific themes and literary trends in prosaic fiction. The course explores short stories, novellas, and novels from different eras and continents.

**LIT 191.4****LITERATURE AND IDEAS I: IRISH FICTION****3 units**

The course offers an overview of Irish prose fiction in English—both novels and short stories—from 1690-2014. Emphasizing formal experimentation, it asks how different modes of writing, including realism, romance, and metafiction, represent political, social and cultural conditions at different historical moments.

**LIT 191.8****LITERATURE AND IDEAS I: CONTEMPORARY FICTION OF FILIPINOS ABROAD****3 units**

This course surveys contemporary fiction by Filipino authors located outside the country. The various activities and discussions examine how these writers-immigrants from the

Philippines, and cross-cultural authors raised outside the archipelago-incorporate specifically Filipino concerns and universal human questions into their work.

**LIT 191.11****LITERATURE AND IDEAS I: FANTASY LITERATURE****3 units**

This course is a course on the modes, conventions, and uses of fantasy in novels. Students are expected to investigate these works according to authorial intentions, literary influences, thematic and mythic connections, structure, and style.

**LIT 191.24****THE BIOLOGY OF SCIENCE FICTION****3 units**

This course is a joint offering of the Department of Biology and English. The course deals with the critical analysis and discussion of science fiction and of the biological basis behind popular trends in the genre.

**LIT 192****LITERATURE AND IDEAS II (POETRY AND DRAMA)****3 units**

This course is a study of specific themes and literary trends in poetry and/or drama. The course explores short stories, novellas, and novels from different eras and continents.

**LIT 193****LITERATURE AND IDEAS III (CULTURAL STUDIES)****3 units**

This course is a study of the relationship between literature and the trends and movements of history and culture. The course explores texts from different eras and continents.

**LIT 193.27**  
**LITERATURE AND IDEAS III:**  
**CULTURAL STUDIES**  
**(LITERATURE AND WRITING:**  
**THE BOOK)**

**3 units**

This course is an introduction to the wonderful world of the History of the Book. It involved the study of the origins and development of the book as a material object and as an agent of civilization. Special attention is paid to Philippine book history and to Philippine literary publishing.

**LIT 193.28**  
**LITERATURE AND IDEAS III:**  
**CULTURAL STUDIES**  
**(LITERATURE, FILM, AND**  
**OPERA)**

**3 units**

This course presents literature as narrative source of opera and also establishes the libretto by itself as a viable work of literature. Finally, the course examines the union of literature and opera as embodied through the medium of film and its various elements—from cinematography to *mise-en-scène*, from editing to acting, from sound to ideology.

**LIT 193.29**  
**LITERATURE AND IDEAS III:**  
**CULTURAL STUDIES**  
**(TRANSMEDIAL**  
**SHAKESPEARE)**

**3 units**

This course provides an overview of some of the modes of existence of Shakespeare as both textual artifact and cultural icon. It surveys a selection of Shakespearean incarnations in literary and theatrical traditions but moves outside the scope of conventional Shakespearean media to include music, the visual arts, popular culture, advertising, film, and other digital media.

**LIT 193.32**  
**LITERATURE AND IDEAS III:**  
**LITERATURE, SEXUALITY,**  
**AND URBAN SPACE**

**3 units**

The course examines contemporary queer-themed Asian literary and cinematic texts. Drawing on ideas from materials concerned with spatial politics and queer theory, it probes the ways in which the interplay between the erotic and the urban is transformed into an aesthetics of dislocation, play, and transgression.

**LIT 193.35**  
**LITERATURE AND IDEAS III:**  
**LITERATURE AND BLACK**  
**STUDIES**

**3 units**

This course introduces post-colonial theory to Literature, culture and Black Studies. Topics include the Negritude movement, African-American double-consciousness and slavery, Caribbean diasporic black identity, women and blackness, epidermal stereotype, psychiatry and Bleaching Syndrome, representation of blackness in media and museums, and the black tradition in music from negro spirituals to Michael Jackson.

**LIT 193.36**  
**LITERATURE AND IDEAS III:**  
**SECURITY, TERROR, AND**  
**TECHNOLOGY**

**3 units**

The course interrogates discourses surrounding technology, security, and terror through legal and historical documents, literature, film, and new media. Course aims include: (1) introducing a number of contemporary theories of race and the state; (2) developing students' skills in critical thinking and cultural and discourse analysis; and (3) teaching research methods.

**LIT 193.37**  
**LITERATURE AND IDEAS III:**  
**THE PHILIPPINE TELESERYE**  
**3 units**

This course explores the "teleserye," in Philippine television, using cultural studies and media studies frameworks. The exploration explicates the development of the genre as it was practiced, defined (and re-defined) in the last 30 years. This course is designed for literature majors and minors, and communication majors.

**LIT 194**  
**LITERATURE AND IDEAS IV**  
**(NON-FICTION)**

**3 units**

This course is a study of various works of non-fiction. The course explores essays, biographies, journals, travelogues, and letters from different literary traditions.

**LIT 198**  
**INDEPENDENT RESEARCH I**  
**3 units**

This is a seminar course for seniors in writing papers which are either a literary text analysis or a creative writing compilation. The students determine the subject of their study, compile research, familiarize themselves with the theoretical basis of their work, and organize their paper.

**LIT 199**  
**INDEPENDENT RESEARCH II**  
**3 units**

This is a seminar course that consists of the drafting, defense, and revision of the Senior Paper. The paper serves as the culminating project of the undergraduate literary study reflecting competent textual analysis, research-gathering, and critical thinking.



3/F Horacio de la Costa Hall  
(632) 426-6001 loc. 5320/5321  
filipino.soh@ateneo.edu  
<http://www.ateneo.edu/depts/filipino/>

## FILIPINO

**Joseph T. Salazar**  
*Chair*

**Faculty  
Professor**  
Benilda S. Santos

**Associate Professors**  
Michael M. Coroza  
Jerry C. Respeto  
Corazon L. Santos  
Alvin B. Yapan

**Assistant Professors**  
Christine S. Bellen  
Jose Bernard T. Capino  
Gary C. Devilles  
Jayson P. Jacobo  
Marco Aniano V. Lopez  
Glenda C. Oris  
Jema M. Pamintuan  
Joseph T. Salazar  
Edgar C. Samar

**Instructors**  
Aristotle J. Atienza  
Ryan Dennis B. Callueng  
Christoffer Mitch C. Cerda  
Pamela Marie M. Cruz  
Allan Alberto N. Derain  
Ariel A. Diccion  
Carlota B. Francisco  
Mark Benedict F. Lim  
Allan C. Popa  
Maricar D. Pulvera  
Julz Henriane E. Riddle  
Kristine V. Romero  
Jethro Niño P. Tenorio  
Claudette M. Ulit

**Lecturers**  
Honorio B. de Dios • Richard C. de Guzman  
Jomar I. Empaynado • Maria Louella C.E. Fortez  
Yolando B. Jamendang, Jr. • Sining Maria Rosa L.  
Marfori • Patricia P. Velez

*Taglay ang atas ng Pamantasang Ateneo de Manila na magsilbing tagaingat at tagasulong ng kabang-yaman ng kulturang Pilipino, nang isinasaalang-alang ang pana-panahong pagbabago ng kasaysayan at lipunang sarili at pati ng sa mundo, itinatakda ng Kagawaran ng Filipino ang: propesyunal at multidisiplinaryong pagtugon sa pangangailangang pinaglilingkuran nito sa mahalagang gawain ng integrasyon ng mga kaalaman at mga kulturang sarili sa pamamagitan ng malikhaing praktis, pagtuturo, at pananaliksik na walang-humpay na pinalalaya at pinalalalim ng espiritwalidad ni San Ignacio.*

Summoned by the Ateneo de Manila University to defend and care for the archives of Philippine culture, and always mindful of constant changes and transitions in our society and elsewhere, the Department of Filipino initiates a professional and multidisciplinary response in anchoring the University and leading it home to the bedrock of our culture, not by ruling out acquired wisdom, but by letting it harmonize with our own.

The Filipino Department lives this through creative practice, teaching, and research that allow Ignatian spirituality to reign with freedom and boundless resonance.

## BACHELOR OF ARTS IN LITERATURE (FILIPINO)

*Natatangi ang programang AB Panitikan (Filipino) sa pagkakaroon ng apat na larangan ng espesyalisasyon: pananaliksik, malikhaing pagsulat, pagtuturo, at pagsasalin. Gamit ang mga tradisyunal at kontemporaryong teorya sa araling pampanitikan at pangkultura, sasanayin ang mag-aaral sa pagbasa, pagsusuri at pagpapakahulugan sa mga akdang pampanitikan at mga teksto ng kulturang popular upang pagkaraan mailapat ang kanyang kasanayan sa produksiyon ng sariling teksto na may maiaambag sa alinman sa mga larangang nabanggit. Natatangi rin ang paradigma na pagtawid sa mga larangan (cross-disciplinary) sa Programang AB Direkto sa MA at Programang Minor sa Panitikan (Filipino) na nagtatakda ng integrasyon ng mga kaalamang hiram sa mga kaalamang sarili. Higit sa lahat, pinatatatag at pinadadaloy ang lahat ng kaalaman sa mahusay at mabisang pagsulat.*

*Ang mga propesyong maaaring pasukin ng mga nagtapos sa programa ay ang pagiging guro, tagapagsaliksik, tagasalin, manunulat (sa pahayagan, radyo, telebisyon, advertising, o iba pang kaugnay na larangan), kritiko, at iba pang anyo ng pagiging manggagawang intelektwal.*

The AB Literature (Filipino) is unique in its four major fields of specialization: research, creative writing, pedagogy, and translation. Using traditional and contemporary theories of literary and cultural studies, students are trained to read, research, and evaluate literary works and textual production of popular culture so that they may also contribute to the production of literature or to any of the major fields mentioned above. AB Literature (Filipino) is also progressive because of its straight program and minor program in Literature which are essentially cross-disciplinary and integrative of other methodologies and studies. Ultimately, the program aims to ground and develop all knowledge through efficient and effective writing.

Graduates of this program are employed as teachers, researchers, translators, writers (in newspaper, radio, television, advertising, and other related fields), critics, and other forms of intellectual work.

### FIRST YEAR

First Semester		Units	Second Semester		Units
EN 11	Communication in English I	3	EN 12	Communication in English II	3
LIT 13	Introduction to Fiction	3	LIT 14	Introduction to Poetry and Drama	3
MA 11	Modern Mathematics I	3	MA 12	Modern Mathematics II	3
FIL 11	Sining ng Pakikipagtalastasan sa Filipino I	3	FIL 12	Sining ng Pakikipagtalastasan sa Filipino II	3
NATSCI 1A	Natural Science, Lecture	3	NATSCI 2A	Natural Science, Lecture	3
NATSCI 1B	Natural Science, Laboratory	1	NATSCI 2B	Natural Science, Laboratory	1
PE 1	Physical Education	(2)	PE 2	Physical Education	(2)
INTAC 1	Introduction to Ateneo Culture and Traditions	(0)	INTAC 2	Introduction to Ateneo Culture and Traditions	(0)
		Total: 16			Total: 16

### SECOND YEAR

First Semester		Units	Second Semester		Units
TH 121	An Introduction to Doing a Catholic Theology	3	HI 165	Rizal and the Emergence of the Philippine Nation	3
FIL 14	Panitikan ng Pilipinas	3	SCI 10	Science and Society	3
FLC	Foreign Language and Culture	3	SA 21	Introduction to Sociology and Anthropology	3
EC 102	Basic Economics, Agrarian Reform and Taxation	3	PSY 101	General Psychology	3
HI 16/HI 18	Asian History/Western History	3	FIL ELECTIVE		3
PE 3	Physical Education	(2)	PE 4	Physical Education	(2)
NSTP 1	National Service Training Program	(3)	NSTP 2	National Service Training Program	(3)
		Total: 15			Total: 15

### THIRD YEAR

First Semester		Units	Second Semester		Units
PH 101	Philosophy of the Human Person I	3	PH 102	Philosophy of the Human Person II	3
TH 131	Marriage, Family Life and Human Sexuality in a Catholic Perspective	3	POS 100	Politics and Governance	3
HI 166	Philippine History	3	FIL ELECTIVE		3
FIL ELECTIVE		3	FIL ELECTIVE		3
FIL ELECTIVE		3	FREE ELECTIVE		3
		Total: 15			Total: 15

FOURTH YEAR					
<u>First Semester</u>		<u>Units</u>	<u>Second Semester</u>		<u>Units</u>
PH 103/	Philosophy of Religion/		PH 103/	Philosophy of Religion/	
PH 104	Foundations of Moral Value	3	PH 104	Foundations of Moral Value	3
TH 141/	A Theology of the Catholic Social Vision/		TH 141/	A Theology of the Catholic Social Vision/	
TH 151	The Catholic Commitment of		TH 151	The Catholic Commitment of	
	Today's Filipino: A Synthesis	3		Today's Filipino: A Synthesis	3
FIL ELECTIVE		3	FIL 120	Pananaliksik na Indibidwal	3
FIL ELECTIVE		3	FIL ELECTIVE		3
FIL ELECTIVE		3	FREE ELECTIVE		3
Total:		15	Total:		15

Total Number of Academic Units: 122  
Curriculum Effective Freshman Batch SY 2002-2003

## BACHELOR OF ARTS/MASTER OF ARTS IN LITERATURE (FILIPINO)

*Ang programang AB/MA Panitikan (Filipino) ang tugon ng Kagawaran ng Filipino sa tumitinding pangangailangan sa propesyunalismo sa larangan ng mga araling pampanitikan sa Filipino. Bukas lamang ito sa mahuhusay na mag-aaral sa programang AB Panitikan (Filipino) na nais magpakadalubhasa sa pag-aaral ng panitikang Filipino. Aanyayahan ang mga mag-aaral na maging bahagi ng programa mula sa unang semestre ng ikatlong taon. Pagkakuha ng AB Panitikan (Filipino) sa loob ng apat na taon, handa na ang mag-aaral na tumungo sa mga araling gradwado na matatapos sa loob ng dalawang semestre at dalawang tag-araw.*

The AB/MA Literature (Filipino) is the Filipino Department's response to the increasing need for professionalism in the field of literary studies in Filipino. The program is open only to outstanding undergraduates in the AB Literature (Filipino) who intend to pursue further studies in Filipino literature. Students will be invited to join the program at the start of first semester of junior year. Upon completion of their AB Literature (Filipino) in four years, they are eligible to begin their graduate studies, which they complete in two semesters and two summers.

FIRST YEAR					
<u>First Semester</u>		<u>Units</u>	<u>Second Semester</u>		<u>Units</u>
EN 11	Communication in English I	3	EN 12	Communication in English II	3
LIT 13	Introduction to Fiction	3	LIT 14	Introduction to Poetry and Drama	3
MA 11	Modern Mathematics I	3	MA 12	Modern Mathematics II	3
FIL 11	Sining ng Pakikipagtalastasan sa Filipino I	3	FIL 12	Sining ng Pakikipagtalastasan sa Filipino II	3
NATSCI 1A	Natural Science, Lecture	3	NATSCI 2A	Natural Science, Lecture	3
NATSCI 1B	Natural Science, Laboratory	1	NATSCI 2B	Natural Science, Laboratory	1
PE 1	Physical Education	(2)	PE 2	Physical Education	(2)
INTAC 1	Introduction to Ateneo Culture and Traditions	(0)	INTAC 2	Introduction to Ateneo Culture and Traditions	(0)
		<i>Total:</i> 16			<i>Total:</i> 16

SECOND YEAR					
First Semester		Units	Second Semester		Units
TH 121	An Introduction to Doing a Catholic Theology	3	HI 165	Rizal and the Emergence of the	
FIL 14	Panitikan ng Pilipinas	3		Philippine Nation	3
FLC	Foreign Language and Culture	3	SCI 10	Science and Society	3
EC 102	Basic Economics, Agrarian Reform and Taxation	3	SA 21	Introduction to Sociology and Anthropology	3
HI 16/HI 18	Asian History/Western History	3	PSY 101	General Psychology	3
PE 3	Physical Education	(2)	FIL ELECTIVE		3
NSTP 1	National Service Training Program	(3)	PE 4	Physical Education	(2)
		Total: 15	NSTP 2	National Service Training Program	(3)
					Total: 15

THIRD YEAR					
First Semester		Units	Second Semester		Units
PH 101	Philosophy of the Human Person I	3	PH 102	Philosophy of the Human Person II	3
TH 131	Marriage, Family Life and Human Sexuality in a Catholic Perspective	3	POS 100	Politics and Governance	3
HI 166	Philippine History	3	FIL ELECTIVE		3
			FIL ELECTIVE		3

FIL ELECTIVE	3	FREE ELECTIVE	3
FIL ELECTIVE	3		
<b>Total:</b>	<b>15</b>	<b>Total:</b>	<b>15</b>

#### FOURTH YEAR

<u>First Semester</u>	<u>Units</u>	<u>Second Semester</u>	<u>Units</u>
PH 103/ Philosophy of Religion/		PH 103/ Philosophy of Religion/	
PH 104 Foundations of Moral Value	3	PH 104 Foundations of Moral Value	3
TH 141/ A Theology of the Catholic Social Vision/		TH 141/ A Theology of the Catholic Social Vision/	
TH 151 The Catholic Commitment of		TH 151 The Catholic Commitment of	
Today's Filipino: A Synthesis	3	Today's Filipino: A Synthesis	3
FIL ELECTIVE	3	FIL 120 Pananaliksik na Indibidwal	3
FIL ELECTIVE	3	FIL ELECTIVE	3
FIL ELECTIVE	3	FREE ELECTIVE	3
<b>Total:</b>	<b>15</b>	<b>Total:</b>	<b>15</b>

#### FIFTH YEAR

<u>Summer</u>	<u>Units</u>		
FIL 200 Pamamaraan ng Pagsasaliksik sa Pampanitikan	3		
FIL 203 Mapanuring Kasaysayan ng Panitikan ng Pilipinas	3		
FIL ELECTIVE *	3		
<b>Total:</b>	<b>9</b>		

<u>First Semester</u>	<u>Units</u>	<u>Second Semester</u>	<u>Units</u>
FIL 201 Teorya at Kritisismong Pampanitikan	3	FIL 225.1 ** Pagsulat ng Tesis:	
FIL 202 Kritisismong Pampanitikan ng Pilipinas	3	Ginabayang Pagsasaliksik	0
FIL COMPRE 200 Comprehensive Examinations	0	FIL COMPRE 200 Comprehensive Examinations	0
FIL ELECTIVE *	3	FIL ELECTIVE *	3
FIL ELECTIVE *	3	FIL ELECTIVE *	3
<b>Total:</b>	<b>12</b>	FIL ELECTIVE *	3
		<b>Total:</b>	<b>9</b>

<u>Summer</u>		
FIL 225.2 ** Pagsulat ng Tesis: Ginabayang Pagsulat	0	
FIL DEF 200 Oral Defense (Masters)	0	
<b>Total:</b>	<b>0</b>	

\* any elective not taken as a slash course in the AB Literature (Filipino) Program

\*\* The units for the thesis are credited after the student passes the oral defense and submits the final revised copy of the thesis.

Total Number of Undergraduate Academic Units: 122

Total Number of Graduate Academic Units: 36

Total Number of Academic Units: 158

Curriculum Effective Freshman Batch SY 2002-2003

English Translation of the MA Courses:

FIL 200 Method of Literary Research

FIL 201 Literary Theory and Criticism

FIL 202 Philippine Literary Criticism

FIL 203 Critical History of Philippine Literature

FIL 225.1 Thesis Direction: Guided Research

FIL 225.2 Thesis Direction: Writing Thesis

### MINOR IN LITERATURE (FILIPINO)

The Minor in Literature (Filipino) program offers sufficient training to enhance and complement the students' mastery of their field of specialization. It gives an interesting interplay of courses highlighting literary history, genre studies, literary theory, and contemporary topics in literary studies as these are applied to the reading of our own literature.

To qualify for the minor, applicants need to earn at least a B in the core courses, FIL 11 and FIL 12, and in FIL 14 which is one of the required courses. Students must complete 18 units of study, and earn at least a grade of C on the remaining 15 units.

PRE-REQUISITES 6 units

#### Communication Arts

FIL 11 Communication Arts in Filipino I 3 units

FIL 12 Communication Arts in Filipino II 3 units

<b>REQUIRED COURSES</b>		<b>18 units</b>
<u>Survey of Philippine Literature</u>		
FIL 14	Survey of Philippine Literature	3 units
<u>Generic Criticism (choose one)</u>		
FIL 103.1	Generic Studies: Filipino Poetry	3 units
FIL 103.2	Generic Studies: Filipino Drama	3 units
FIL 103.3	Generic Studies: Filipino Novel	3 units
FIL 103.4	Generic Studies: Filipino Short Fiction	3 units
FIL 103.5	Generic Studies: Filipino Essay	3 units
<u>General Theory and Criticism (choose one)</u>		
FIL 104	Literary Criticism in the Philippines	3 units
FIL 105	Literary Theory	3 units
FIL 115.1	Ideas in Literature I: Eastern	3 units
FIL 115.2	Ideas in Literature II: Western	3 units
FIL 116.1	Literary Tradition: Eastern	3 units
FIL 116.2	Literary Tradition: Anglo-American	3 units
<u>Critical Studies (choose one)</u>		
FIL 108.1	Critical Studies: Marxism in Philippine Literature	3 units
FIL 108.2	Critical Studies: Postcolonialism in Philippine Literature	3 units
FIL 108.3	Critical Studies: Feminism in Philippine Literature	3 units
FIL 108.4	Critical Studies: Gender Studies in Philippine Literature	3 units
<u>Periods in Philippine Literature (choose one)</u>		
FIL 102	A Critical Survey of Philippine Literature	3 units
FIL 107	Philippine Literature in the 19 <sup>th</sup> Century	3 units
FIL 109.1	Aboriginal Literature: Philippine Folk Literature	3 units
FIL 109.2	Aboriginal Literature: The Philippine Epic	3 units
FIL 110	Philippine Regional Literature	3 units
<u>Special Topics (choose one)</u>		
FIL 111.1	Popular Culture: Forms of Popular Culture in the Philippines	3 units
FIL 111.2	Popular Culture: Filipino Film and Literature	3 units
FIL 112	Philippine Children's Literature	3 units
FIL 114	Philippine Journalism	3 units
FIL 118.1	Teaching Literature and Composition: Strategies and Methods	3 units
FIL 118.2	Teaching Literature and Composition: Production of Instructional Materials	3 units
FIL 119.1	Creative Writing: Poetry	3 units
FIL 119.2	Creative Writing: Short Fiction	3 units
FIL 119.3	Creative Writing: Contemporary Prose Forms	3 units
FIL 119.4	Creative Writing: Play	3 units
FIL 119.5	Creative Writing: Children's Literature	3 units
FIL 119.6	Creative Writing: Forms of Popular Culture	3 units



FIL 121.1	Translation: Theory and Practice	3 units
FIL 121.2	Translation: Analysis	3 units

## COURSE OFFERINGS

### FIL 8

#### BATAYANG FILIPINO I

3 units

*Isa itong pantawid kurso upang mapakinis ang transisyong pangwika ng mag-aaral mula sa mataas na paaralan tungo sa antas pangwika na hinihingi ng pamantasan.*

*Pinagtutuunan pansin sa kursong ito ang pasalita, pakikinig, pagbasa, at pagsulat sa wikang Filipino.*

### FIL 9

#### BATAYANG FILIPINO II

3 units

*Isa itong pantawid kurso upang mapakinis ang transisyong pangwika ng mag-aaral mula sa mataas na paaralan tungo sa antas pangwika na hinihingi ng pamantasan.*

*Pinagtutuunan ng pansin dito ang paggamit ng moralistiko at pormalistikong pagsusuri bilang pangunahing teorya upang mapataas ang sopistikasyon ng pagsusuri.*

### FIL 10

#### BASIC FILIPINO

#### PANIMULANG FILIPINO

Non-credit

*Isa itong kurso sa paglinang ng mga kasanayan sa pagbasa, pagsulat, pakikinig, at pagsasalita sa Filipino upang pag-ibayuhin ang aktwal na kagalingan ng mag-aaral sa pakikipagtalastasan sa konteksto ng mga akdang pampanitikan at pangkultura bilang paghahanda sa mga kursong regular.*

This course is an introduction and preparation for the regular Filipino classes through developing basic skills in reading, writing, listening, and speaking that are crucial to the study of literary and cultural texts in Filipino.

### FIL 11

#### COMMUNICATION ARTS IN FILIPINO I

#### SINING NG

#### PAKIKIPAGTALASTASAN SA FILIPINO I

3 units

*Isa itong kurso sa pag-aaral at pagpapahalaga sa wika at kultura sa pamamagitan ng pagkilala at pagsusuri sa tula, maikling kwento, dula, at nobela sa Filipino.*

This course is a critical discussion and appreciation of poems, short stories, plays, and novels in Filipino to give students awareness and knowledge of language and culture.

### FIL 11.1

#### COMMUNICATION ARTS IN FILIPINO I: FILIPINO FOR FOREIGN STUDENTS – INTRODUCTION TO PHILIPPINE CULTURE

3 units

This course is a survey of oral and written texts and practices that present multiple facets of Philippine culture expressed in language.

### FIL 11.2

#### FILIPINO FOR FOREIGN STUDENTS – INTRODUCTION TO PHILIPPINE CULTURE THROUGH IMMERSION

3 units

This is a course on the use of conversational Filipino for beginner-level foreign students to acquaint them with the realities of Philippine culture through a practical application of the Filipino language in immersion work, and to aid in their

integration with the local community.

### FIL 12

#### COMMUNICATION ARTS IN FILIPINO II

#### SINING NG

#### PAKIKIPAGTALASTASAN SA FILIPINO II

Pre-requisite: FIL 11

3 units

*Isa itong kurso sa pagsasanay at pagpapaunlad sa kakayahang sumulat ng iba't ibang anyo ng sanaysay, nang binibigyan ng diin ang pagsusuri sa panitikan at kultura.*

This is a preparatory course in essay writing with an emphasis on the critical analysis of literature and culture.

### FIL 12.1

#### COMMUNICATION ARTS IN FILIPINO II: FILIPINO FOR FOREIGN STUDENTS—CONVERSATIONAL FILIPINO

3 units

This is a course on Filipino in simple conversation or everyday situations that leads to reading, comprehension, and composition writing, with topics and themes derived from readings on contemporary Philippine life and culture.

### FIL 14

#### SURVEY OF PHILIPPINE LITERATURE

#### PANITIKAN NG PILIPINAS

Pre-requisite: FIL 12

3 units

*Isa itong batayang kurso sa kasaysayang pampanitikan na nakatuon sa pag-aaral ng pagkaunlad*

*ng panitikang Filipino mula sa panahong aborihinal hanggang sa panahong kontemporaryo.*  
This is an introductory course on the history of Philippine literature focusing on the development of Philippine literature from its aboriginal roots to its contemporary forms and conventions.

**FIL 14.1**  
**FILIPINO FOR FOREIGN STUDENTS: SURVEY OF PHILIPPINE LITERATURE**  
**3 units**

This course is a survey providing basic information of Philippine literary history from the pre-colonial to the contemporary period, studying both oral and written forms.

**FIL 101**  
**HISTORY OF THE FILIPINO LANGUAGE KASAYSAYAN NG WIKANG FILIPINO**  
**3 units**

*Isa itong kurso sa pagsusuri ng pagkaunlad ng Filipino mula sa mga unang aklat ng gramatika hanggang sa kontemporaryong anyo at gamit nito sa mga akdang pampanitikan at popular.*

This is an analytical course on the development of Filipino from the first grammatical texts to contemporary forms, and applications in literary and popular texts.

**FIL 102**  
**A CRITICAL SURVEY OF PHILIPPINE LITERATURE MAPANURING KASAYSAYAN NG PANITIKANG FILIPINO**  
**3 units**

*Isa itong masaklaw at diakronikong pag-aaral ng kasaysayan ng panitikang Filipino sa simula hanggang sa kasalukuyan nang isinasaalang-alang ang mga puwersang nagtatakda sa tunguhin nito.*

This course is a comprehensive and diachronic study of the history and development of Philippine literature from its beginnings to the present with an analysis of the different forces that have affected its growth.

**FIL 103.1**  
**GENERIC STUDIES: FILIPINO POETRY**  
**ARALING HENERIKO: TULANG FILIPINO**  
**3 units**

*Isa itong kurso sa pag-aaral ng kasaysayan at pagkaunlad ng tulang Filipino.*

This course is a study of the history and development of poetry in Filipino.

**FIL 103.2**  
**GENERIC STUDIES: FILIPINO DRAMA**  
**ARALING HENERIKO: DULANG FILIPINO**  
**3 units**

*Isa itong kurso sa pag-aaral ng kasaysayan at pagkaunlad ng dulang Filipino.*

This course is a study of the history and development of drama in Filipino.

**FIL 103.3**  
**GENERIC STUDIES: FILIPINO NOVEL**  
**ARALING HENERIKO: NOBELANG FILIPINO**  
**3 units**

*Isa itong kurso sa pag-aaral ng kasaysayan at pagkaunlad ng nobelang Filipino.*

This course is a study of the history and development of the novel in Filipino.

**FIL 103.4**  
**GENERIC STUDIES: FILIPINO SHORT FICTION**  
**ARALING HENERIKO: MAIKLING KWENTONG FILIPINO**  
**3 units**

*Isa itong kurso sa pag-aaral ng kasaysayan at pagkaunlad ng maikling kwentong Filipino.*  
This course is a study of the history and development of the short story in Filipino.

**FIL 103.5**  
**GENERIC STUDIES: FILIPINO ESSAY**  
**ARALING HENERIKO: SANAYSAY NA FILIPINO**  
**3 units**

*Isa itong kurso sa pag-aaral ng kasaysayan at pagkaunlad ng sanaysay na Filipino.*

This course is a study of the history and development of the essay in Filipino.

**FIL 104**  
**LITERARY CRITICISM IN THE PHILIPPINES KRITISISMONG PAMPANITIKAN NG PILIPINAS**  
**3 units**

*Isa itong introduksyon sa kritisismong pampanitikan sa Filipino at sa iba pang wikang Pilipino, kasama ang pagsusuri sa layon, estilo, at tunguhin nito.*

This course is an introduction to literary criticism in Filipino and in other Philippine languages, including the analysis of its objectives, styles, and methods.

**FIL 105**  
**LITERARY THEORY TEORYANG PAMPANITIKAN**  
**3 units**

*Isa itong masaklaw na pag-aaral ng mga teoryang pampanitikan kaagapay ng paglilina sa teoryang pampanitikang Pilipino.*

This course is a study of the various literary theories as sources and influences of literary theory in Filipino.

**FIL 106****A CRITICAL STUDY OF THE LIFE AND WORKS OF RIZAL****MAPANURING PAG-AARAL NG BUHAY AT MGA AKDA NI RIZAL****3 units**

*Isa itong kurso sa historiko-kritikal na pagsusuri ng mga akda ng Bayaning Pambansa sa konteksto ng nagpapatuloy na pananaliksik sa kanyang biograpiya at mga teksto.*  
This course is a historico-critical study of the works of Jose P. Rizal in view of prospective research on his life and contributions to national literature.

**FIL 107****PHILIPPINE LITERATURE IN THE 19<sup>TH</sup> CENTURY PANITIKANG TAGALOG SA IKA-19 NA DANTAON****3 units**

*Isa itong kurso sa pag-aaral ng mga kumbensyon at tradisyong pampanitikan ng mga akda ng ika-19 na dantaon na humubog sa kamalayang makabayan.*  
This course is a study of 19<sup>th</sup> century literature focusing on its literary conventions and traditions, and its contribution to the development of a national consciousness.

**FIL 108.1****CRITICAL STUDIES: MARXISM IN PHILIPPINE LITERATURE****ARALING KRITIKAL: MARXISMO SA PANITIKANG FILIPINO****3 units**

*Isa itong masaklaw na pag-aaral at paglalapat ng teoryang Marxista sa pagkaunlad, tema, at kumbensyong pampanitikan ng literatura ng protesta at radikalismo sa ika-19 na dantaon at hanggang sa kasalukuyan.*  
This course is a survey and application of Marxist theory in themes in Philippine literature, especially in protest literature and

the radicalism of the 19<sup>th</sup> century to the present.

**FIL 108.2****CRITICAL STUDIES: POSTCOLONIALISM IN PHILIPPINE LITERATURE****ARALING KRITIKAL: POSTKOLONYALISMO SA PANITIKANG FILIPINO****3 units**

*Isa itong masaklaw na pag-aaral at paglalapat ng teoryang post-kolonyal sa panitikang Filipino.*  
This course is a survey and application of postcolonial theory in Philippine literature.

**FIL 108.3****CRITICAL STUDIES: FEMINISM IN PHILIPPINE LITERATURE ARALING KRITIKAL: FEMINISMO SA PANITIKANG FILIPINO****3 units**

*Isa itong masaklaw na pag-aaral at paglalapat ng teoryang feminista sa panitikang Filipino.*  
This class is a survey and application of feminist literary theory in Philippine literature.

**FIL 108.4****CRITICAL STUDIES: GENDER STUDIES IN PHILIPPINE LITERATURE****ARALING KRITIKAL: ARALING PANGKASARIAN SA PANITIKANG FILIPINO****3 units**

*Isa itong masaklaw na pag-aaral at paglalapat ng mga teorya sa araling pangkasarian sa panitikang Filipino.*  
This course is a survey and application of gender studies in Philippine Literature.

**FIL 109.1****ABORIGINAL LITERATURE: PHILIPPINE FOLK LITERATURE PANITIKANG ABORIHINAL: PANITIKANG-BAYAN NG PILIPINAS****3 units**

*Isa itong masaklaw na pag-aaral ng panitikang-bayan ng iba't ibang rehiyon sa Pilipinas.*

This is a reading course on Philippine folk literature from the different regions of the country.

**FIL 109.2****ABORIGINAL LITERATURE: THE PHILIPPINE EPIC PANITIKANG ABORIHINAL: EPIKO NG PILIPINAS****3 units**

*Isa itong kurso sa masusing pagbasa ng mga pangunahing epiko ng bayan kaagapay ang masaklaw na pag-aaral ng kulturang pinag-uugatan ng mga ito.*  
This is a survey course on Philippine epic literature and its cultural and regional roots.

**FIL 110****PHILIPPINE REGIONAL LITERATURE PANITIKANG REHIYUNAL NG PILIPINAS****3 units**

*Isa itong masaklaw na pag-aaral ng nilalaman at pamaraan ng piling panitikan ng mga pangunahing rehiyong linggwistika sa Pilipinas.*  
This is a course on the literature and forms of expression of the major linguistic regions of the Philippines.

**FIL 111.1****POPULAR CULTURE: FORMS OF POPULAR CULTURE IN THE PHILIPPINES KULTURANG POPULAR: MGA ANYO NG KULTURANG POPULAR NG PILIPINAS****3 units**

*Isa itong masaklaw na pag-aaral ng nilalaman at pamaraan, at ng midya at mambabasa/manonood ng mga anyo ng kulturang popular.*  
This course is a study of the content and conventions of popular culture, the media, and the audience of popular literature in the Philippines.

**FIL 111.2**  
**POPULAR CULTURE: FILIPINO**  
**FILM AND LITERATURE**  
**KULTURANG POPULAR:**  
**PANITIKAN AT PELIKULANG**  
**FILIPINO**

**3 units**

*Isa itong kurso sa pag-aaral ng impluwensya ng mga tradisyon at kumbensiyong pampanitikan sa mga piling pelikulang Filipino.*

This course is a critical survey of the influence of literary tradition and conventions in selected Filipino films.

**FIL 112**  
**PHILIPPINE CHILDREN'S**  
**LITERATURE**  
**PANITIKANG PAMBATA NG**  
**PILIPINAS**

**3 units**

*Isa itong kurso sa pag-aaral ng mga pili at kontemporaryong panitikang pambata.*

This is a reading course on selected contemporary children's literature in Filipino.

**FIL 113**  
**CONTEMPORARY FORMS OF**  
**PHILIPPINE PROSE**  
**MGA KONTEMPORANYONG**  
**ANYO NG TULUYAN NG**  
**PILIPINAS**

**3 units**

*Isa itong kurso sa pag-aaral ng mga sangkap at nilalaman ng kontemporaryong anyo ng tuluyan.*

This is a reading course on contemporary forms of prose in Filipino.

**FIL 114**  
**PHILIPPINE JOURNALISM**  
**PAMAMAHAYAG SA FILIPINO**

**3 units**

*Isa itong kurso sa pag-aaral ng kasaysayan, at ng iba't ibang anyo at estilo, ng pamamahayag sa Filipino.*

This course is a survey of the history and the various forms and styles of journalism in Filipino.

**FIL 115.1**  
**IDEAS IN LITERATURE I:**  
**EASTERN**  
**MGA KAISIPAN SA**  
**PANITIKAN: SILANGANIN**

**3 units**

*Isa itong kurso sa pag-aaral ng mga pangunahin at kontemporaryong akda ng panitikang Silanganin kaugnay ng iba't ibang sistemang pangkaisipan ng Silangan.*

This course is a survey of classical and contemporary works in Eastern literature as they figure in the development of schools of thought in the East.

**FIL 115.2**  
**IDEAS IN LITERATURE II:**  
**WESTERN**  
**MGA KAISIPAN SA**  
**PANITIKAN: KANLURANIN**

**3 units**

*Isa itong kurso sa pag-aaral ng mga pangunahin at kontemporaryong akda ng panitikang Kanluranin kaugnay ng iba't ibang sistemang pangkaisipan ng Kanluran.*

This course is a survey of classical and contemporary works of Western literature as they figure in the development of schools of thought in the West.

**FIL 116.1**  
**LITERARY TRADITION:**  
**EASTERN**  
**TRADISYONG**  
**PAMPANITIKAN: SILANGANIN**

**3 units**

*Isa itong kurso sa historiko-kritikal na pag-aaral ng mga pangunahing tradisyong pilosopikal, relihiyoso, at pampanitikan ng India, China, Korea, at Japan.*

This course is a survey of the historico-critical development of major philosophical, religious, and literary traditions of India, China, Korea, and Japan.

**FIL 116.2**  
**LITERARY TRADITION:**  
**ANGLO-AMERICAN**  
**TRADISYONG**  
**PAMPANITIKAN:**  
**ANGLO-AMERIKANO**

**3 units**

*Isa itong kurso sa historiko-kritikal na pag-aaral ng mga pangunahing tradisyong pampanitikan na Anglo-Amerikano.*

This course is a survey of the historico-critical development of major Anglo-American literary traditions.

**FIL 117**  
**THE LITERATURE OF**  
**SOUTHEAST ASIA**  
**PANITIKAN NG TIMOG-**  
**SILANGANG ASYA**

**3 units**

*Isa itong kurso sa pag-aaral ng mga piling akdang pampanitikan na kakatawan sa mga natatanging kalakaran sa mga panitikan ng Timog-Silangang Asya, kasama ang Indonesia, Malaysia, Thailand, Vietnam, Laos, Cambodia, Myanmar, Brunei, at Singapore.*

This course is a close reading of selected literary works that represent the unique literary traditions and practices of Southeast Asian nations including Indonesia, Malaysia, Thailand, Vietnam, Laos, Cambodia, Myanmar, Brunei, and Singapore.

**FIL 118.1**  
**TEACHING LITERATURE AND**  
**COMPOSITION:**  
**STRATEGIES AND METHODS**  
**PAGTUTURO NG PANITIKAN**  
**AT KOMPOSISYON:**  
**MGA ESTRATEHIYA AT**  
**PAMARAAN**

**3 units**

*Isa itong kurso sa pag-aaral at pagsasanay sa pagtuturo ng panitikan at komposisyon sa mataas na paaralan at sa kolehiyo, kasabay ng paghahanda ng kurikulum, teksbuk, manwal, at antolohiyang panturo.*

This is a course on the theory and methodology of teaching literature and composition in the secondary and tertiary levels, including the preparation of curricula, textbooks, manuals, and anthologies for teaching.

**FIL 118.2**  
**TEACHING LITERATURE AND COMPOSITION:**  
**PRODUCTION OF INSTRUCTIONAL MATERIALS**  
**PAGTUTURO NG PANITIKAN**  
**AT KOMPOSISYON:**  
**PRODUKSYON NG MGA KASANGKAPANG PANTURO**  
**3 units**

*Isa itong kurso sa pag-aaral ng mga simulain sa paghahanda ng mga pagsusulat, lesson plan, manual, at audio-visual na kasangkapang panturo, at pagsasanay sa aktwal na produksyon ng mga ito.*

This is a course on pedagogical principles related to the preparation of tests, lesson plans, manuals, and audio-visual aids, with practical training in the actual production of these instructional materials.

**FIL 119.1**  
**CREATIVE WRITING: POETRY**  
**MALIKHAING PAGSULAT:**  
**TULA**  
**3 units**

*Isa itong palihan sa pagsulat ng tula sa Filipino, at pag-aaral ng mga kakanyahan ng tula nang isinasaalang-alang ang proseso ng rebisyon.*

This is a workshop for the study and practice of writing poetry with emphasis on the process of revision.

**FIL 119.2**  
**CREATIVE WRITING: SHORT FICTION**  
**MALIKHAING PAGSULAT:**  
**MAIKLING KUWENTO**  
**3 units**

*Isa itong palihan sa pagsulat ng maikling kuwento sa Filipino, at pag-aaral ng mga kakanyahan nito nang*

*isinasaalang-alang ang proseso ng rebisyon.*

This is a workshop for the study and practice of short story writing with emphasis on the process of revision.

**FIL 119.3**  
**CREATIVE WRITING:**  
**CONTEMPORARY PROSE FORMS**  
**MALIKHAING PAGSULAT:**  
**MGA KONTEMPORANYONG**  
**MGA ANYO NG TULUYAN**  
**3 units**

*Isa itong palihan sa pagsulat ng mga kontemporaryong anyo ng tuluyan sa Filipino, at pag-aaral ng mga kakanyahan nito nang isinasaalang-alang ang proseso ng rebisyon.*

This is a workshop for the study and practice of writing contemporary forms of prose with emphasis on the process of revision.

**FIL 119.4**  
**CREATIVE WRITING: PLAY**  
**MALIKHAING PAGSULAT:**  
**DULA**  
**3 units**

*Isa itong palihan sa pagsulat ng dula sa Filipino, at pag-aaral ng mga kakanyahan nito nang isinasaalang-alang ang proseso ng rebisyon.*

This is a workshop for the study and practice of writing plays with emphasis on the process of revision.

**FIL 119.5**  
**CREATIVE WRITING:**  
**CHILDREN'S LITERATURE**  
**MALIKHAING PAGSULAT:**  
**PANITIKANG PAMBATA**  
**3 units**

*Isa itong palihan sa pagsulat ng panitikang pambata sa Filipino, at pag-aaral ng mga kakanyahan nito nang isinasaalang-alang ang proseso ng rebisyon.*

This is a workshop for the study and practice of writing children's literature with emphasis on the process of revision.

**FIL 119.6**  
**CREATIVE WRITING:**  
**FORMS OF POPULAR CULTURE**  
**MALIKHAING PAGSULAT:**  
**MGA ANYO NG KULTURANG POPULAR**

**3 units**

*Isa itong palihan sa pagsulat ng mga anyo ng kulturang popular sa Filipino, tulad ng dulang pampelikula, pantelebisyon, panradyo, at ng advertisement, nang isinasaalang-alang ang proseso ng rebisyon.*

This is a workshop for the study and practice of writing some forms of popular culture such as movie scripts, teleplays, radio plays, and advertisements.

**FIL 120**  
**INDIVIDUAL RESEARCH**  
**PANANALIKSIK NA**  
**INDIBIDWAL**

**3 units**

*Isa itong kurso sa pagsasagawa ng pag-aaral at pananaliksik, at pagsulat ng mahabang papel.*

This is a course on research that culminates in thesis writing.

**FIL 121.1**  
**TRANSLATION: THEORY AND PRACTICE**  
**PAGSASALIN: TEORYA AT PRAKTIS**

**3 units**

*Isa itong kurso sa pag-aaral ng piling teorya ng pagsasalin, at paglalapat ng mga ito sa isang proyekto ng pagsasalin sa Filipino.*

This course is a survey of selected translation theories applied in actual translation projects in Filipino.

**FIL 121.2**  
**TRANSLATION: ANALYSIS**  
**PAGSASALIN: PAGSUSURI**

**3 units**

*Isa itong kurso sa pag-aaral at ebalwasyon ng mga salin sa Filipino ng mga natatanging akdang pampanitikan ng Kanluran at*



*Silangan, pati na ng iba pang rehiyon sa Pilipinas.*

This course is a critical study and evaluation of Filipino translations of selected Eastern and Western texts and Philippine regional works.

**FIL 122.1**  
**TECHNICAL FILIPINO FOR ACADEME**  
**TEKNIKAL NA FILIPINO: MGA ANYONG PANG-AKADEMIKO**  
**3 units**

*Isa itong kurso sa pag-aaral ng mga anyo, gamit, at paraan ng editing ng teknikal na Filipino sa komunikasyong pormal sa iba't ibang disiplina nang kaagapay ang aktwal na paggamit dito.*

This is a seminar course on forms, usage, and methods of editing technical Filipino for formal communication in the different academic disciplines with its actual application.

**FIL 122.2**  
**TECHNICAL FILIPINO IN MEDIA**  
**TEKNIKAL NA FILIPINO: MGA ANYONG PANGMIDYA**  
**3 units**

*Isa itong kurso sa pag-aaral ng mga anyo, gamit, at paraan ng editing ng teknikal na Filipino sa radyo, telebisyon, pelikula, advertising, at pamamahayag nang kaagapay ang aktwal na paggamit dito.*

This is a seminar course on the forms, usage, and methods of editing technical Filipino for radio, television, film, advertising, and journalism.

**FIL 123.1**  
**SPECIAL TOPICS:**  
**LITERATURE AND ART STUDIES**  
**MGA NATATANGING PAKSA: PANITIKAN AT MGA ARALING PANSINING**  
**3 units**

*Isa itong kurso sa pag-aaral ng pagkakasangkot ng panitikan sa mga produksyong artistiko, at gayon din*

*naman, ng pagkakasangkot ng mga produksyong artistiko sa panitikan, sa mga piling akdang pampanitikan at akdang pansining.*

This is a seminar course on the role of literature in artistic production, and conversely, the role of artistic production in literature, using selected literary and artistic works.

**FIL 123.2**  
**SPECIAL TOPICS:**  
**LITERATURE AND CULTURAL MANAGEMENT**  
**MGA NATATANGING PAKSA: PANITIKAN AT PAMAMAHALANG PANGKULTURA**  
**3 units**

*Isa itong kurso sa paghubuo ng mga paraang eksperimental na hihiramin sa mga sistemang pampanitikan upang mapamahalaan ang mga produksyong pangkultura na malakas ang paggamit ng teknolohiya at mabigyan ito ng malikhaing tunguhin.*

This is a seminar course on managing technology-oriented cultural production and providing it with creative directions.

**FIL 123.3**  
**SPECIAL TOPICS:**  
**LITERATURE AND GLOBALISM**  
**MGA NATATANGING PAKSA: PANITIKAN AT GLOBALISMO**  
**3 units**

*Isa itong kurso sa pag-aaral ng mga akdang kontemporaryo na maituturing na nagtataglay ng mga katangiang global at lumalampas sa katangiang panitikang pambansa.*

This course is a survey of contemporary works with considerable global uniqueness that transcends national literary boundaries.

**FIL 123.4**  
**SPECIAL TOPICS:**  
**CONTEMPORARY WORKS I**  
**MGA NATATANGING PAKSA: KONTEMPORANYONG PANITIKAN I**  
**3 units**

*Isa itong bukas na kursong nakalaan sa pag-aaral ng bago o higit na espisipikong usapin sa panitikan tulad ng pagbasa at pag-aaral ng anyong science fiction, Panitikan ng Dayaspora, ng Panitikang Afrikano, Panitikang Latina Amerikana, Panitikang Europeo o Panitikan ng Silangang Asya.*

This is an open course on the study of new and more specific literary issues such as the study of science fiction, migrant literature, African literature, Latin American literature, European or East Asian literature.

**FIL 123.5**  
**SPECIAL TOPICS:**  
**CONTEMPORARY WORKS II**  
**MGA NATATANGING PAKSA: KONTEMPORANYONG PANITIKAN II**  
**3 units**

*Isa itong bukas na kursong nakalaan sa pagbasa at pagpapahalaga sa mga kontemporaryong akdang pampanitikan tulad ng mga nasa bestseller list, o nagkamit ng parangal na pampanitikan gaya ng Palanca Award, Nobel Prize, o Booker Prize.*

This is an open course on the appreciation of exceptional literary works such as those in bestseller lists, or those that have won honors such as the Palanca Award, Nobel Prize, or Booker Prize.

**FIL 200**  
**METHODS OF LITERARY RESEARCH**  
**PAMAMARAAN NG PAGSASALIHSIK NA PAMPANITIKAN**  
**3 units**

*Isa itong teorya at praktis sa pagsasaliksik sa pampanitikan.*

This is a course on the theory and practice of literary research and scholarship.

**FIL 201**

**LITERARY THEORY AND CRITICISM**

**TEORYA AT KRITISISMONG PAMPANITIKAN**

**3 units**

*Isa itong masinsing pag-aaral ng kalakaran ng teorya at kritisismong pampanitikan nang may pagbibigay-diin sa araling kultural, postkolonyal, feminista, at pangkasarian.*

This is an intensive study of literary theories, with focus on cultural, postcolonial, feminist, and gender studies, and the practice of literary criticism.

**FIL 202**

**PHILIPPINE LITERARY CRITICISM**

**KRITISISMONG**

**PAMPANITIKAN NG**

**PILIPINAS 3 units**

*Isa itong masusing pag-aaral ng kritisismong pampanitikan sa Filipino at sa iba pang wikang Pilipino tungo sa paglilinaw ng mga tradisyon at kilusang pampanitikan.*

This course on advanced studies on literary criticism in Filipino and in the other major Philippine languages, leading to the delineation of literary traditions and movements.

**FIL 203**

**CRITICAL HISTORY OF PHILIPPINE LITERATURE  
MAPANURING KASAYSAYAN  
NG PANITIKAN NG PILIPINAS  
3 units**

*Isa itong kritikal na pag-aaral ng kasaysayan ng panitikan mula sa panahong aborihinal hanggang sa kasalukuyan nang kaagapay ang pagsusuri ng kritikal na pananaw ng mga pangunahing aklat ng kasaysayang pampanitikan ng Pilipinas tungo sa pagbubuo ng bagong kritikal na pananaw sa pagsulat ng kasaysayan ng panitikan.*

This course is a critical and diachronic study of Philippine literary history from pre-Hispanic times to the present. The course evaluates the critical framework that informs major texts of Philippine literary history to formulate a new critical framework in rewriting Philippine literary history.

**FIL 225.1**

**THESIS DIRECTION:  
GUIDED RESEARCH  
PAGSULAT NG TESIS:  
GINABAYANG  
PAGSASALIKSIK**

**0 units**

**Pre-requisites: A total of 30 units of core courses, courses in the field of concentration and electives, and passing the comprehensive examinations**

*Isa itong masinop at ginabayang pagsasaliksik sa ilalim ng isang tagapayo tungo sa pagsulat ng tesis.*

These are projects in research leading to a thesis under the supervision of an adviser.

**FIL 225.2**

**THESIS DIRECTION:  
WRITING THESIS  
PAGSULAT NG TESIS:  
GINABAYANG PAGSULAT**

**0 units**

**Pre-requisites: A total of 30 units of core courses, courses in the field of concentration and electives, and passing the comprehensive examinations**

*Isa itong aktwal na pagsulat ng tesis sa patnubay ng isang tagapayo.*

This is a thesis writing course under the supervision of an adviser.

Room 208 Gonzaga Hall  
(632) 426-6001 loc. 5330/5331  
finearts@admu.edu.ph

## FINE ARTS

**Jerry C. Respeto**  
*Director*

**Martin V. Villanueva**  
*Associate Director*

**Faculty**  
*Associate Professors*  
Rene B. Javellana, S.J.  
Jerry C. Respeto

*Assistant Professor*  
Glenn S. Mas

*Instructors*  
Melissa Vera M. Maramara  
Martin V. Villanueva

*Assistant Instructors*  
Elbert T. Or  
Jason J. Moss

*Lecturers*  
Mark Clarence M. Andres • Yael B. Borromeo •  
Sarah Delphine C. Buencamino • Robby Derrick S.  
Cham • Philip Michael A. Cheang • Voltaire Vincent  
G. De Jesus • Joel Alexander S. De Leon • Michael-Ali  
D. Figueroa • Giselle Maria Rebecca G. Garcia •  
Henedina Shanice A. Garcia • Gino G. Gonzales •  
Eloisa May P. Hernandez • Maria Victoria T. Herrera  
• Joi Marie Angelica M. Indias • Ana Maria W.  
Katigbak • Mark Lester C. Lacsamana • Glen Charles  
N. Lopez • Alfred Benedict C. Marasigan • Meneer B.  
Marcelo • Tracy Ann Liberty A. Monsod • Michael  
Bernardo A. Parker • Emmanuel Antonio O. Perlas •  
Vincent Martin B. Pinpin • Alexander M. Osias •  
Benilda S. Santos • Angelo Alfonso G. Soliongco •  
Paolo Miguel G. Tiausas • Ace D. Vitangcol •  
Trina Karla T. Yabut • Analyn L. Yap

The Fine Arts Program (FA) is an integrated undergraduate arts program offering four Bachelor of Fine Arts (BFA) degrees, namely Art Management, Creative Writing, Information Design, and Theater Arts.

The BFA programs embody and continue the University's distinguished tradition in creative writing, theater arts, and visual arts. It upholds artistic excellence shaped by a rigorous practice of the artist's craft, a critical appreciation of theory and history, and an active engagement with the relevant contexts that shape and are shaped by artistic and creative endeavors.

All BFA majors pass through similar core courses in art theory and history where the humanistic dimension of art is emphasized, the imaginative capabilities of the young artist are initially challenged, and the experience of art is enriched.

Further, there is a focus on critical engagement, on a creativity that flourishes not in spite of an intelligent socio-cultural consciousness but because of it. Thus, the study of art in the FA is committed to a contextualized syllabus that is aware of the local, regional, and global realities and forces that affect the contemporary artistic practice.



## BACHELOR OF FINE ARTS MAJOR IN ART MANAGEMENT

The Bachelor of Fine Arts, major in Art Management program endeavors to expose students to the highest professional standards in art practice outside of its own production. Through its linkage with the Ateneo Art Gallery, the Ateneo's art museum and the country's premier museum of modern Philippine art, the program provides important interfaces for education and training in areas such as curatorship, exhibition design, as well as the marketing and promotion of the arts.

The program seeks to produce individuals who will influence, develop, support, and implement programs on behalf of artistic institutions or practitioners, helping them realize their full creative potential in the service of the nation. By fine-tuning their connoisseurship, enhancing their knowledge of art and its histories and critical theories, endowing them with technical competencies, and providing them sound management skills, the program hopes to graduate enlightened and committed visionaries who will extricate the arts from the realm of esotericism and privilege by positioning it as a proactive catalyst intrinsic to, engaged in, and committed to the edification of the quality of life.

BFA AM graduates are qualified to work in museums and art institutions as curators, exhibition designers, and education/promotion officers. They may also become art critics, art historians, culture and heritage advocates, editors of art, culture, and lifestyle publications, as well as publicists and managers of artists/performers.

### FIRST YEAR

<u>First Semester</u>	<u>Units</u>	<u>Second Semester</u>	<u>Units</u>
EN 11 Communication in English I	3	EN 12 Communication in English II	3
LIT 13 Introduction to Fiction	3	LIT 14 Introduction to Poetry and Drama	3
MA 11 Modern Mathematics I	3	MA 12 Modern Mathematics II	3
FIL 11 Sining ng Pakikipagtalastasan sa Filipino I	3	FIL 12 Sining ng Pakikipagtalastasan sa Filipino II	3
NATSCI 1A Natural Science, Lecture	3	NATSCI 2A Natural Science, Lecture	3
NATSCI 1B Natural Science, Laboratory	1	NATSCI 2B Natural Science, Laboratory	1
PE 1 Physical Education	(2)	PE 2 Physical Education	(2)
INTAC 1 Introduction to Ateneo Culture and Traditions	(0)	INTAC 2 Introduction to Ateneo Culture and Traditions	(0)
<b>Total:</b>	<b>16</b>	<b>Total:</b>	<b>16</b>

### SECOND YEAR

<u>First Semester</u>	<u>Units</u>	<u>Second Semester</u>	<u>Units</u>
TH 121 An Introduction to Doing a Catholic Theology	3	FLC Foreign Language and Culture	3
FIL 14 Panitikan ng Pilipinas	3	PSY 101 General Psychology	3
SA 21 Introduction to Sociology and Anthropology	3	SCI 10 Science and Society	3
HI 16/HI 18 Asian History/Western History	3	EC 102 Basic Economics, Agrarian Reform and Taxation	3
FA 101 Introduction to Art and Aesthetics	3	FA 102 Research in the Fine Arts	3
FA 165.1 Introduction to Visual Arts	3	FA 165.2 Introduction to Philippine Visual Arts	3
PE 3 Physical Education	(2)	PE 4 Physical Education	(2)
NSTP 1 National Service Training Program	(3)	NSTP 2 National Service Training Program	(3)
<b>Total:</b>	<b>18</b>	<b>Total:</b>	<b>18</b>

### THIRD YEAR

<u>First Semester</u>	<u>Units</u>	<u>Second Semester</u>	<u>Units</u>
PH 101 Philosophy of the Human Person I	3	PH 102 Philosophy of the Human Person II	3
TH 131 Marriage, Family Life and Human Sexuality	3	FA 167 Art History Series (Choose One)	3
HI 165 Rizal and the Emergence of the Philippine Nation	3	FA 168 Art Management Series (Choose One)	3
FA 166 Art Theory Series (Choose One)	3	FA ELECTIVE	3
FA 168 Art Management Series (Choose One)	3	FREE ELECTIVE	3
<b>Total:</b>	<b>15</b>	<b>Total:</b>	<b>15</b>

#### FOURTH YEAR

<u>First Semester</u>	<u>Units</u>	<u>Second Semester</u>	<u>Units</u>
PH 103/ Philosophy of Religion/		PH 103/ Philosophy of Religion/	
PH 104 Foundations of Moral Value	3	PH 104 Foundations of Moral Value	3
TH 141/ A Theology of the Catholic Social Vision/		TH 141/ A Theology of the Catholic Social Vision/	
TH 151 The Catholic Commitment of		TH 151 The Catholic Commitment of	
Today's Filipino: A Synthesis	3	Today's Filipino: A Synthesis	3
HI 166 Philippine History	3	POS 100 Politics and Governance	3
FA 198 Seniors' Creative Project I	3	FA 199 Seniors' Creative Project II	3
FA 103 Art Apprenticeship and Outreach	3	FA 104 The Creative Professional	3
FA ELECTIVE	3	FREE ELECTIVE	3
<i>Total:</i>	<i>18</i>	<i>Total:</i>	<i>18</i>

Total Number of Academic Units: 134  
Curriculum Effective Freshman Batch SY 2014-2015

### BACHELOR OF FINE ARTS MAJOR IN CREATIVE WRITING

The Bachelor of Fine Arts, major in Creative Writing program introduces students to the various writing genres and allows them to specialize in the genres of their choice. The program follows a two-pronged process – apprenticeship, where students learn from their elders, and the workshop, where they learn from their peers.

By putting these methods alongside the academic study of literary and critical texts, the creative process, and the pertinent contexts that influence literary production, the program aims to produce writers who are competent in the craft of their chosen genre specialty (fiction, nonfiction, poetry, or drama) while remaining aware of literature's place and influence in one's life and one's society.

Aside from being practitioners of literature, BFA CW graduates are qualified to work in publications as writers and editors; in the creative industry, public relations, and advertising as copywriters and content developers; in media and entertainment as journalists, scriptwriters, and producers; as well as in the academe as teachers of language and literature. Graduates are also qualified to move on to law school.

#### FIRST YEAR

<u>First Semester</u>	<u>Units</u>	<u>Second Semester</u>	<u>Units</u>
EN 11 Communication in English I	3	EN 12 Communication in English II	3
LIT 13 Introduction to Fiction	3	LIT 14 Introduction to Poetry and Drama	3
FIL 11 Sining ng Pakikipagtalastasan sa Filipino I	3	FIL 12 Sining ng Pakikipagtalastasan sa Filipino II	3
MA 11 Modern Mathematics I	3	MA 12 Modern Mathematics II	3
NATSCI 1A Natural Science, Lecture	3	NATSCI 2A Natural Science, Lecture	3
NATSCI 1B Natural Science, Laboratory	1	NATSCI 2B Natural Science, Laboratory	1
PE 1 Physical Education	(2)	PE 2 Physical Education	(2)
INTAC 1 Introduction to Ateneo Culture and Traditions	(0)	INTAC 2 Introduction to Ateneo Culture and Traditions	(0)
<i>Total:</i>	<i>16</i>	<i>Total:</i>	<i>16</i>

#### SECOND YEAR

<u>First Semester</u>	<u>Units</u>	<u>Second Semester</u>	<u>Units</u>
FA 101 Introduction to Art and Aesthetics	3	FA 102 Research in the Fine Arts	3
FA-CW 101.1 Fiction Writing: Introduction to Fiction Writing	3	FA-CW 103.1 Poetry Writing: Introduction to Poetry Writing	3
FA-CW 102.1 Nonfiction Writing: Introduction to		FA-CW 104.1 Drama Writing: Introduction to Drama Writing	3
Nonfiction Writing	3	HI 16/HI 18 Asian History/Western History	3
FIL 14 Panitikan ng Pilipinas	3	PSY 101 General Psychology	3
SA 21 Introduction to Sociology and Anthropology	3	SCI 10 Science and Society	3
TH 121 An Introduction to Doing a Catholic Theology	3	PE 4 Physical Education	(2)
PE 3 Physical Education	(2)	NSTP 2 National Service Training Program	(3)
NSTP 1 National Service Training Program	(3)	<i>Total:</i>	<i>18</i>
<i>Total:</i>	<i>18</i>		

### THIRD YEAR

<u>First Semester</u>	<u>Units</u>	<u>Second Semester</u>	<u>Units</u>
FA-CW 10X.2 Fiction / Nonfiction / Poetry / Drama Writing: Writing Workshop I (CHOOSE 1 DEPENDING ON GENRE TRACK)	3	FA-CW 10X.3 Fiction / Nonfiction / Poetry / Drama Writing: Writing Workshop II (CHOOSE 1 DEPENDING ON GENRE TRACK)	3
FA-CW 111.1 Theory and Criticism for Writers: Introduction to Theory and Criticism for Writers	3	FA-CW 112.1 Special Topics in Creative Writing: The Novel and Other Book-Length Works	3
FA ELEC Fine Arts Elective I	3	FA ELEC 2 Fine Arts Elective 2	3
HI 165 Rizal and the Emergence of the Philippine Nation	3	EC 102 Basic Economics, Agrarian Reform and Taxation	3
PH 101 Philosophy of the Human Person I	3	FLC Foreign Language and Culture	3
TH 131 Marriage, Family Life and Human Sexuality in a Catholic Perspective	3	PH 102 Philosophy of the Human Person II	3
<i>Total:</i>	<i>18</i>	<i>Total:</i>	<i>18</i>

### FOURTH YEAR

<u>First Semester</u>	<u>Units</u>	<u>Second Semester</u>	<u>Units</u>
FA 103 Art Apprenticeship and Outreach	3	FA 104 The Creative Professional	3
FA-CW 199.1 Seniors' Creative Project: Creative Writing Seniors' Project I	3	FA-CW 199.2 Seniors' Creative Project: Creative Writing Seniors' Project II	3
HI 166 Philippine History	3	POS 100 Politics and Governance	3
PH 103/ Philosophy of Religion/	3	PH 103/ Philosophy of Religion/	3
PH 104 Foundations of Moral Value	3	PH 104 Foundations of Moral Value	3
TH 141/ A Theology of the Catholic Social Vision/	3	TH 141/ A Theology of the Catholic Social Vision/	3
TH 151 The Catholic Commitment of Today's Filipino: A Synthesis	3	TH 151 The Catholic Commitment of Today's Filipino: A Synthesis	3
F ELEC 1 FREE ELECTIVE	3	F ELEC 2 FREE ELECTIVE	3
<i>Total:</i>	<i>18</i>	<i>Total:</i>	<i>18</i>

Total Number of Academic Units: 140  
Approved Curriculum for SY 2012-2013

## BACHELOR OF FINE ARTS MAJOR IN INFORMATION DESIGN

Information Design roots its relevance in problem solving through the effective presentation of relevant information so that it can best be received, understood, and utilized by a target audience. Design and communication theories contextualize and inform the students' education in graphic design procedures and techniques. The program provides its students with opportunities to develop their own skills in design, which they are tasked to use to attain specific goals that can aid personal growth, growth in industry, and change in society.

The Bachelor of Fine Arts, major in Information Design program seeks to produce graduates who have the requisite knowledge, experience, and skills in communicating to different audiences and clients, utilizing the principles and tools of design, creating effective strategies for designing information, knowing and utilizing with some depth, arts in general and particular fields of the arts.

BFA ID graduates are qualified to work in advertising, marketing, media, corporate communications, and publishing. They can work as freelance designers or for design studios who offer services such as the creation of marketing collaterals, the conceptualization of corporate and personal branding, as well as the development of interfaces for software and websites.

### FIRST YEAR

<u>First Semester</u>	<u>Units</u>	<u>Second Semester</u>	<u>Units</u>
EN 11 Communication in English I	3	EN 12 Communication in English II	3
LIT 13 Introduction to Fiction	3	LIT 14 Introduction to Poetry and Drama	3
FIL 11 Sining ng Pakikipagtalastasan sa Filipino I	3	FIL 12 Sining ng Pakikipagtalastasan sa Filipino II	3
MA 11 Modern Mathematics I	3	MA 12 Modern Mathematics II	3
NATSCI 1A Natural Science, Lecture	3	NATSCI 2A Natural Science, Lecture	3
NATSCI 1B Natural Science, Laboratory	1	NATSCI 2B Natural Science, Laboratory	1

PE 1	Physical Education	(2)	PE 2	Physical Education	(2)
INTAC 1	Introduction to Ateneo Culture and Traditions	(0)	INTAC 2	Introduction to Ateneo Culture and Traditions	(0)
		<i>Total:</i>			<i>Total:</i>
		16			16

## SECOND YEAR

<u>Summer</u>		<u>Units</u>			
FIL 14	Panitikan ng Pilipinas	3			
PSY 101	General Psychology	3			
FA-ID 10.1	Foundation Studio: Digital Studio	(0)			
		<i>Total:</i>			6

<u>First Semester</u>	<u>Units</u>	<u>Second Semester</u>	<u>Units</u>
FA 101	Introduction to Art and Aesthetics	FA 102	Research in the Fine Arts
FA-ID 101.1	Design Theory and History: Information Architecture	FA-AM 101.1	Introduction to Visual Arts
FA-ID 101.2	Design Theory and History: Elements of Visual Communication	FA-ID 101.5	Design Theory and History: History of Graphic Design
FA-ID 10.2	Foundation Studio: Drawing	FA-ID 10.3	Foundation Studio: Painting
HI 16/HI 18	Asian History/Western History	EC 102	Basic Economics, Agrarian Reform and Taxation
SA 21	Introduction to Sociology and Anthropology	FLC	Foreign Language and Culture
TH 121	An Introduction to Doing a Catholic Theology	SCI 10	Science and Society
PE 3	Physical Education	PE 4	Physical Education
NSTP 1	National Service Training Program	NSTP 2	National Service Training Program
		<i>Total:</i>	<i>Total:</i>
		21	21

## THIRD YEAR

<u>First Semester</u>	<u>Units</u>	<u>Second Semester</u>	<u>Units</u>
FA-AM 101.2	Visual Arts: Introduction to Philippine Visual Arts	FA-ID 101.6	Design Theory and History: Philippine Design
FA-ID 102.1	Design Procedures: Digital Design Procedures	FA-ID 102.4	Design Procedures: Basic Web Design
FA-ID 102.2	Design Procedures: Basic Typography	FA-ID 103.2	Design Practice: Advanced Graphic Design
FA-ID 103.1	Design Practice: Basic Graphic Design	FA-ID 103.3	Design Practice: Branding
HI 165	Rizal and the Emergence of the Philippine Nation	FA ELEC 1	Fine Arts Elective I
PH 101	Philosophy of the Human Person I	PH 102	Philosophy of the Human Person II
TH 131	Marriage, Family Life and Human Sexuality in a Catholic Perspective	F ELEC 1	Free Elective
		<i>Total:</i>	<i>Total:</i>
		21	21

## FOURTH YEAR

<u>First Semester</u>	<u>Units</u>	<u>Second Semester</u>	<u>Units</u>
FA-ID 198.1	Portfolio Development: Portfolio Presentation	FA 104	The Creative Professional
FA-ID 199.1	Seniors' Creative Project: Information Design Seniors' Project I	FA-ID 199.2	Seniors' Creative Project: Information Design Seniors' Project II
FA 103	Art Apprenticeship and Outreach	POS 100	Politics and Governance
FA ELEC 2	Fine Arts Elective II	PH 103/	Philosophy of Religion/
HI 166	Philippine History	PH 104	Foundations of Moral Value
PH 103/	Philosophy of Religion/	TH 141/	A Theology of the Catholic Social Vision/
PH 104	Foundations of Moral Value	TH 151	The Catholic Commitment of Today's Filipino: A Synthesis
TH 141/	A Theology of the Catholic Social Vision/	F ELEC 2	Free Elective
TH 151	The Catholic Commitment of Today's Filipino: A Synthesis		
		<i>Total:</i>	<i>Total:</i>
		21	18

Total Number of Academic Units: 161  
Curriculum Effective Freshman Batch SY 2012-2013

## BACHELOR OF FINE ARTS MAJOR IN THEATRE ARTS

The Bachelor of Fine Arts, major in Theater Arts program exposes students to the range of theater activities, onstage and offstage, all of which require an individual and collaborative intelligence and a passionate interest in theater. The program is seen as a way to increase the number of trained men and women in theater practices, and to provide a venue for the development of theater artists who intend to apply their knowledge of the theater craft for work in professional theater or in film, radio, or television.

The program seeks to produce graduates that have the requisite knowledge, experience and skills in managing the theater as organized activity involving the orchestration of talents; fulfilling the different roles in theater: writer, designer, director, actor, musician, technician, manager; being flexible to adjust to the realities of theater work in the Philippines; facing an audience with conviction, intelligence and passion; and understanding and appreciating theater within the contexts of the arts and society.

Aside from the obvious involvement in theater and media, BFA TA graduates do well in fields and in careers that place heavy demands on meeting the public. The program is a sound undergraduate preparation for public service or law, for teaching, for careers in sales and business, and for fields involving human relations.

### FIRST YEAR

First Semester		Units	Second Semester		Units
EN 11	Communication in English I	3	EN 12	Communication in English II	3
LIT 13	Introduction to Fiction	3	LIT 14	Introduction to Poetry and Drama	3
MA 11	Modern Mathematics I	3	MA 12	Modern Mathematics II	3
FIL 11	Sining ng Pakikipagtalastasan sa Filipino I	3	FIL 12	Sining ng Pakikipagtalastasan sa Filipino II	3
NATSCI 1A	Natural Science, Lecture	3	NATSCI 2A	Natural Science, Lecture	3
NATSCI 1B	Natural Science, Laboratory	1	NATSCI 2B	Natural Science, Laboratory	1
PE 1	Physical Education	(2)	PE 2	Physical Education	(2)
INTAC 1	Introduction to Ateneo Culture and Traditions	(0)	INTAC 2	Introduction to Ateneo Culture and Traditions	(0)
		Total: 16			Total: 16

### SECOND YEAR

First Semester		Units	Second Semester		Units
TH 121	An Introduction to Doing a Catholic Theology	3	FLC	Foreign Language and Culture	3
FIL 14	Panitikan ng Pilipinas	3	PSY 101	General Psychology	3
SA 21	Introduction to Sociology and Anthropology	3	SCI 10	Science and Society	3
HI 16/HI 18	Asian History/Western History	3	EC 102	Basic Economics, Agrarian Reform and Taxation	3
FA 101	Introduction to Art and Aesthetics	3	FA 102	Research in the Fine Arts	3
FA 137.3	Theatrical Performance: Voice, Movement, and Mime	3	FA 137.1	Theatrical Performance: Acting I	3
PE 3	Physical Education	(2)	PE 4	Physical Education	(2)
NSTP 1	National Service Training Program	(3)	NSTP 2	National Service Training Program	(3)
		Total: 21			Total: 18

### THIRD YEAR

First Semester		Units	Second Semester		Units
PH 101	Philosophy of the Human Person I	3	PH 102	Philosophy of the Human Person II	3
TH 131	Marriage, Family Life and Human Sexuality in a Catholic Perspective	3	FA 138.1	Directing: Directing I	3
HI 165	Rizal and the Emergence of the Philippine Nation	3	FA 140.1	Theater Technology: Technical Theatre	3
FA 136.1	Theatre History and Dramatic Literature: Survey of Theatre History and Dramatic Literature	3	FA ELECTIVE		3
FA 139.1	Theatre Design: Production Design	3	FREE ELECTIVE		3
		Total: 15			Total: 15

### FOURTH YEAR

First Semester		Units	Second Semester		Units
PH 103/	Philosophy of Religion/		PH 103/	Philosophy of Religion/	
PH 104	Foundations of Moral Value	3	PH 104	Foundations of Moral Value	3
TH 141/	A Theology of the Catholic Social Vision/		TH 141/	A Theology of the Catholic Social Vision/	
TH 151	The Catholic Commitment of Today's Filipino: A Synthesis	3	TH 151	The Catholic Commitment of Today's Filipino: A Synthesis	3
HI 166	Philippine History	3	POS 100	Politics and Governance	3
FA 198	Seniors' Creative Project I	3	FA 199	Seniors' Creative Project II	3
FA 103	Art Apprenticeship and Outreach	3	FA 104	The Creative Professional	3
FA ELECTIVE		3	FREE ELECTIVE		3
		Total: 18			Total: 18

Total Number of Academic Units: 134  
Curriculum Effective Freshman Batch SY 2014-2015

## MINOR IN CREATIVE WRITING

The Minor in Creative Writing Program aims to give Loyola Schools undergraduate students who are not majors in the BFA Creative Writing program the opportunity to refine their writing skills while remaining in their regular degree programs. It entails the completion of 18 units of course work, or six courses, two of which are part of the core curriculum. Specialization in one writing genre is expected.

The program of studies is as follows:

LIT 13	Introduction to Fiction	OR	3 units
FIL 12	Sining ng Pakikipagtalastasan sa Filipino II		3 units
LIT 14	Introduction to Poetry	OR	3 units
FIL 14	Panitikan ng Pilipinas		3 units
FA 106 TO	Writing Seminar		3 units
FA-CW 1xx.x	Writing Workshop in the Writing Seminar genre		3 units
FA-CW 1xx.x	Writing Workshop in another genre		3 units
FA 198	Practicum I		3 units

## MINOR IN THEATER ARTS

The Minor in Theatre Arts program seeks to offer Loyola Schools undergraduate students who are not majors in the BFA Theatre Arts program the opportunity to pursue their interests in theatre performance, direction, as well as design and production while remaining in their regular degree programs. It entails the completion of 18 units of course work, including a practicum. Specialization in performance, direction, design, or Technical Theatre is encouraged.

The program of studies is as follows:

A. Two courses from the list below:

FA 101	Introduction to Art and Aesthetics	3 units
FA 102	Research in the Fine Arts	3 units
FA 135	Introduction to Theatre Arts	3 units
FA 136	Theatre History and Dramatic Literature	3 units
FA 142	Dramatic Repertoire	3 units
FA 143	Textual Analysis	3 units
Any related courses in other departments with the permission of Program Director		3 units

B. Two courses from the list below:

FA 137	Theatrical Performance	3 units
FA 138	Directing	3 units
FA 139	Theatre Design	3 units
FA 140	Theatre Technology	3 units
FA 180	Theatre Production	3 units
FA 198	Senior's Creative Project I	OR 3 units
FA 199	Senior's Creative Project II	3 units

## COURSE OFFERINGS

### **FA 101 INTRODUCTION TO ART AND AESTHETICS**

**3 units**

This survey course provides foundational and interdisciplinary background in the history, theory and function of art in its various forms. Through a reading of both seminal and contemporary critical texts, and through critically framed interaction with various works, students gain an understanding of the shifting elements and principles of the aesthetic experience.

### **FA 102 RESEARCH IN THE FINE ARTS**

**3 units**  
This is an analytical and interdisciplinary approach to the research processes in the Fine Arts. Research methods may include close reading of critical and biographical materials and other texts, the gathering of primary materials, as well as conducting focused group discussions, participant observation and other processes.

### **FA 103 ART APPRENTICESHIP AND OUTREACH**

**3 units**  
This is a faculty supervised and academically evaluated course in which students will be assigned to companies, institutions, and NGOs where they can practice their talents and skills as artists or use these in service learning in the context of real life.

### **FA 104 THE CREATIVE PROFESSIONAL**

**3 units**  
This course discusses three crucial areas in the professional practice of art, namely: (1) setting up of an

art business, (2) legislature regarding art and (3) promotion of art.

### **FA 116 THEORIES OF WRITING**

**3 units**  
This course is an introduction to the different literary modes and the theories that have evolved in an effort to identify the modes' specificities and characteristics as they have manifested themselves in various periods of history.

### **FA 117 THE TEACHING OF WRITING**

**3 units**  
This course is an introduction to the principles and skills necessary for the teaching of creative writing for beginners and advanced students. The course is handled by a teacher who is also a writer.

### **FA 118 THE TEACHING OF WRITING FICTION**

**3 units**  
This course is an introduction to the principles and skills necessary for the teaching of writing fiction. The course is taught by a faculty member who also writes fiction.

### **FA 119 THE TEACHING OF WRITING NON-FICTION**

**3 units**  
This course is an introduction to the principles and skills necessary for the teaching of writing non-fiction. The course is handled by a teacher who also writes non-fiction.

### **FA 120 THE TEACHING OF WRITING POETRY**

**3 units**  
This course is an introduction to the principles and skills necessary

for the teaching of writing poetry. The course is handled by a faculty member who is also a poet.

### **FA 121 THE TEACHING OF WRITING DRAMA**

**3 units**  
This course is an introduction to the principles and skills necessary for the teaching of playwriting. The course is handled by a teacher who also writes plays.

### **FA 122 SUMMER WRITING SEMINAR-WORKSHOP**

**3 units**  
This is a summer writing seminar and workshop that covers all genres with well-published and award-winning writers, and culminates in the submission and public reading of the students' new works.

### **FA 123 SPECIAL TOPICS IN CREATIVE WRITING**

**3 units**  
These are seminar courses, handled by faculty members who are also writers, on problems and issues in creative writing.

### **FA 123.1 SPECIAL TOPICS IN CREATIVE WRITING: WRITING FOR CHILDREN**

**3 units**  
This is a course that focuses on harnessing students' creative energy through specific writing exercises and assignments and sharing these creative energies through discussions on original work, published books, and writing and publishing issues.



**FA 123.3**  
**SPECIAL TOPICS IN**  
**CREATIVE WRITING:**  
**WRITING AS BIOGRAPHY**  
**3 units**

This is a workshop on biography or life writing. Theories of biography and examples of the various types of biography are discussed. Focus is on the writing of a biographical essay by the students using primary materials found in the Ateneo Library of Women's Writings.

**FA 123.4**  
**SPECIAL TOPICS IN**  
**CREATIVE WRITING: THE**  
**NOVEL AND OTHER BOOK-**  
**LENGTH WORKS**  
**3 units**

This course is an analytical study of the novel as well as other long-form works of literature. It attempts to analyze through reading model works the process of immersion (e.g., in content, in language, or in form) demanded of readers and writers of such literature.

**FA 135**  
**INTRODUCTION TO**  
**THEATER ARTS**  
**3 units**

This course is an introduction to the basic elements of theater experience: history, text, performance, style, production, space, audience, administration, and management.

**FA 136**  
**THEATER HISTORY AND**  
**DRAMATIC LITERATURE**  
**3 units**

These are a set of courses that study the major events, problems, and concepts of theater history and theory, and of major movements, playwrights, and works at historical junctures.

**FA 136.1**  
**THEATER HISTORY AND**  
**DRAMATIC LITERATURE:**  
**SURVEY OF THEATER**  
**HISTORY AND DRAMATIC**  
**LITERATURE**  
**3 units**

This course is a survey of the major events, problems, and concepts of theater history and theory, and of major movements, playwrights, and works at historical junctures.

**FA 136.2**  
**THEATER HISTORY AND**  
**DRAMATIC LITERATURE:**  
**ISSUES IN THEATER HISTORY**  
**AND DRAMATIC**  
**LITERATURE I**  
**3 units**

This course is a detailed analysis of events, problems, concepts of theatre history and theory of major movements, and playwrights from the Greeks until the 17<sup>th</sup> century drama, including a discussion of theatrical traditions in the East.

**FA 136.3**  
**THEATER HISTORY AND**  
**DRAMATIC LITERATURE:**  
**ISSUES IN THEATER HISTORY**  
**AND DRAMATIC**  
**LITERATURE II**  
**3 units**

This course is a detailed analysis of events, problems, concepts of theatre history and theory, and major movements and playwrights from the 18<sup>th</sup> century to the contemporary scene, including a discussion of emerging theatrical traditions in the East.

**FA 137**  
**THEATRICAL PERFORMANCE**  
**3 units**

These are courses that study performance techniques and issues used in theatre.

**FA 137.1**  
**THEATRICAL PERFORMANCE:**  
**ACTING I**  
**3 units**

This course is a study of the fundamentals of acting, including movement, vocal production, and the interrelationships between them. Exercises include improvisation, sound and movement exercises, voice and speech training, tension release, exploration of stage space, and text work.

**FA 137.2**  
**THEATRICAL PERFORMANCE:**  
**ACTING II**  
**3 units**

This course is a laboratory class for the teaching of specialized skills to enhance the actor's development. It also includes advanced exercises in speech, voice, and movement, as well as lessons in period styles and a comparison of Eastern and Western performances.

**FA 137.3**  
**THEATRICAL PERFORMANCE:**  
**VOICE, MOVEMENT AND**  
**MIME**  
**3 units**

This is an integrated course in voice and stage movement with an introduction to mime. Exercises in the expressive use of the body and of stage space are combined with exercises to develop vocal quality, clarity, and projection.

**FA 137.8**  
**THEATRICAL PERFORMANCE:**  
**ACTING FOR THE CAMERA**  
**3 units**

This is a workshop on how to act for video and film. Topics include methods of acting and reacting, blocking and business, voice projection, character focus, and performing in long, medium, and close up shots. Discussions also cover the differences between film and stage acting.



**FA 137.9**  
**THEATRICAL PERFORMANCE:**  
**STORYTELLING AS**  
**PERFORMANCE ART**  
**3 units**

This course is an introduction to storytelling through a series of theater exercises to enhance communication skills and build rapport with audiences. Students learn to select and write stories, practice telling them to different groups, and apply the art in business settings and community work.

**FA 137.10**  
**THEATRICAL**  
**PERFORMANCE:**  
**INTRODUCTION TO**  
**CHOREOGRAPHY**  
**3 units**

This is a dance studio workshop focusing on progressive modern or contemporary dance technique. It includes an introduction to the elements of improvisation and fundamental choreographic devices. Professional dance performances (live and video) are viewed. A dance recital featuring students' work-in-progress concludes the workshop.

**FA 137.11**  
**THEATRICAL**  
**PERFORMANCE:**  
**VOCAL PERFORMANCE**  
**3 units**

This course is a study of singing as practiced in the European cultures of singing, from the Renaissance to the contemporary period. The course also highlights and discusses the methodologies and techniques utilized in the execution and application of singing in the audience-performer paradigm.

**FA 138**  
**DIRECTING**  
**3 units**

These are courses that study the theories and principles of directing.

**FA 138.1**  
**DIRECTING: DIRECTING I**  
**3 units**

This course is a study of the theories and principles of directing, starting with the director's approach to text, interpretation, and visualization. Student directors learn to analyze plays, mount scenes, apply the principles of blocking, and plan a production.

**FA 138.2**  
**DIRECTING:**  
**DIRECTING II**  
**3 units**

This course is a study of problems of composition and advanced work on texts. The course includes a guided laboratory production of scenes and one-act plays.

**FA 139**  
**THEATER DESIGN**  
**3 units**

These are courses that study the elements of theater design.

**FA 139.1**  
**THEATER DESIGN:**  
**PRODUCTION DESIGN**  
**3 units**

This course is an introduction to the elements of stage design: set, costumes, lights, as well as their execution in the context of a particular production or dramatic text.

**FA 139.2**  
**THEATER DESIGN:**  
**SET DESIGN**  
**3 units**

This course is a study of the principles of stage design and the visual interpretation of texts through sets and props.

**FA 139.3**  
**THEATER DESIGN: COSTUME**  
**DESIGN**  
**3 units**

This course is a study of the principles of costume design and

the derivation of lines, silhouettes, and details from history, and interpreting them in appropriate, usable, and creative stage costuming.

**FA 139.4**  
**THEATER DESIGN: LIGHTING**  
**DESIGN**  
**3 units**

This course is a study of the principles and problems of designing for the stage with light.

**FA 139.5**  
**THEATER DESIGN: SOUND**  
**AND MUSIC FOR THE**  
**THEATER**  
**3 units**

This course is a study of the principles of sound and music for stage productions.

**FA 140**  
**THEATER TECHNOLOGY**  
**3 units**

These are courses on theater crafts and other technical aspects of theater work.

**FA 140.1**  
**THEATER TECHNOLOGY:**  
**TECHNICAL THEATER**  
**3 units**

This course is an introduction to theater crafts and other technical aspects of theater work: lights, sound, set and costume work, props and masks, make-up, and others.

**FA 140.2**  
**THEATER TECHNOLOGY:**  
**THEATER CRAFTS**  
**3 units**

This is a course on the design and construction of masks, props, hats, and other stage accessories, including stage painting and basic theater carpentry.

**FA 140.3**  
**THEATER TECHNOLOGY:**  
**STAGE MAKE-UP**  
**3 units**

This course is a study of the principles and practice of theatrical make-up to show character, period and mood under a variety of stage conditions, including realistic and non-realistic styles.

**FA 141**  
**PERFORMING ARTS**  
**MANAGEMENT**  
**3 units**

These are courses on the principles and practices of performing arts management.

**FA 141.1**  
**PERFORMING ARTS**  
**MANAGEMENT: STAGE**  
**MANAGEMENT**  
**3 units**

This course discusses the principles and practice of stage management, including the design of backstage systems, problem-solving, and support for onstage and front-of-house operations as well as a preliminary discussion of theater administration and management.

**FA 141.2**  
**PERFORMING ARTS**  
**MANAGEMENT: THEATER**  
**MANAGEMENT**  
**3 units**

This is a course on the management and administration of non-commercial theaters, including organizational structure, programming, budgets, audience development, publicity, marketing, and fund-raising.

**FA 142**  
**DRAMATIC REPERTOIRE**  
**3 units**

These are courses that study the different dramatic groups or movements.

**FA 142.1**  
**DRAMATIC REPERTOIRE:**  
**PHILIPPINE DRAMA**  
**3 units**

This course is a survey of the development of Philippine drama from ritual to contemporary plays, with a close look at the texts and performance styles of such forms as the *sinakulo*, *komedya*, and *sarsuela*, as well as their relevance to contemporary theater.

**FA 142.2**  
**DRAMATIC REPERTOIRE:**  
**ASIAN DRAMA**  
**3 units**

This course is a study of the major Asian forms: Japanese, Indian, Chinese, Southeast Asian; and their relevance to and impact on Philippine performance.

**FA 142.3**  
**DRAMATIC REPERTOIRE:**  
**WESTERN DRAMA**  
**3 units**

This course is a study of Western drama, from Greek tragedy to the present: major styles, works, playwrights, and influences.

**FA 142.4**  
**DRAMATIC REPERTOIRE:**  
**AMERICAN DRAMA**  
**3 units**

This course is an overview of American drama from colonial times to the present, using a variety of theoretical perspectives on the theater. Selected plays are read and discussed, with attention to the diversity of theatrical productions by American racial and ethnic minorities, including Filipino-Americans.

**FA 142.5**  
**DRAMATIC REPERTOIRE: 20<sup>TH</sup>**  
**CENTURY DRAMA**  
**3 units**

This course studies selected major European and American innovators and innovative movements in theatre from the late 1800s to the present. By investigating these alongside readings in multicultural, feminist, and postmodern theatre

practices, the course examines how alternative forms of performance have impacted mainstream theatre.

**FA 143**  
**TEXTUAL ANALYSIS**  
**3 units**

These are courses that study the techniques in the analysis and interpretation of theater arts.

**FA 143.1**  
**TEXTUAL ANALYSIS:**  
**TEXTUAL STRATEGIES FOR**  
**THE THEATER**  
**3 units**

This is a course on the strategies and techniques in the study, analysis, and interpretation of theater texts for actors and directors.

**FA 143.2**  
**TEXTUAL ANALYSIS:**  
**PLAYWRITING**  
**3 units**

This is a workshop in the development of the art and craft of playwriting: analytic approaches to dramatic writing, developing a personal voice, narrative, characters, and point of view.

**FA 143.3**  
**TEXTUAL ANALYSIS:**  
**THEATER CRITICISM**  
**3 units**

This course is a study of writing reviews and criticism for various media, ranging from daily newspapers and magazines to scholarly journals and specialized theater publications.

**FA 143.4**  
**TEXTUAL ANALYSIS:**  
**THEATER SEMIOTICS**  
**3 units**

This course is a study of the use of signs and symbols, linguistic and non-linguistic, in theater practice.

**FA 144****THEATER GENRES****3 units**

These are courses that study some of the different genres of theatre.

**FA 144.1****THEATER GENRES:  
MUSICAL THEATER****3 units**

This course is a study of the history, development, and styles of musical theater, including auditioning, rehearsing, and staging musical productions.

**FA 144.2****THEATER GENRES:  
CHILDREN'S THEATER****3 units**

This course is a study of the forms, styles, and texts of theater productions geared toward children.

**FA 144.3****THEATER GENRES:  
PUPPET THEATER****3 units**

This course is an introduction to the origins, forms, and styles of puppet theater, including puppet construction.

**FA 145****THEATER AND COMMUNITY****3 units**

These are courses on the principles and practice of community theatre.

**FA 145.1****THEATER AND COMMUNITY****3 units**

This course is a study of the principles and practice of community theater, focusing on variations based on locale, sector, and ideology.

**FA 165****VISUAL ARTS****3 units**

These are courses that deal with topics related to the visual arts: overviews of the field, specific

themes in visual arts, and differences and similarities across cultural groups.

**FA 165.1****INTRODUCTION TO THE  
VISUAL ARTS****3 units**

This is a basic course on the visual arts. Focus is on the elements of pictorial design and the principles of visual composition. The cultural, philosophical, religious, and ideological assumptions underlying key historical developments in Western art-making from ancient to modern times are discussed.

**FA 165.2****INTRODUCTION TO  
PHILIPPINE  
VISUAL ARTS****3 units**

This course discusses Philippine visual arts from the 19<sup>th</sup> century to the present. Topics include the artists of the Spanish and American period, neo-realists of the post-war era, the abstractionists, folk moderns, social realists, and mixed media or installation artists of various schools.

**FA 166****ART THEORY****3 units**

These are courses that provide the theoretical foundations for the visual arts.

**FA 166.1****THE ART OF OUR TIME: FROM  
MODERNISM ONWARDS****3 units**

This course examines the interrelationship of visual representation with the transformation of the social, political, and cultural construct of society in the 20<sup>th</sup> century. It surveys Late Expressionism and avant-garde movements and introduces postmodernism in terms of contemporary theory,

and new technologies and practices.

**FA 166.2****ART THEORY: ANALYSIS OF  
VISUAL IMAGES****3 units**

This course argues on how pictures work in perceptual and cognitive terms which must be balanced by a study of the relationship between social and political power of images. Image analysis draws from art theory and history, psychology, semiotics, sociology, and related cultural theory.

**FA 166.3****ART THEORY: GENRES OF  
WRITING ON ART****3 units**

This course is a more focused study of the methods of art writing for different cultures and audiences. Students are expected to acquire the ability to write extended captions, educational and press kits, scholarly catalogue entries, and critical art reviews.

**FA 166.4****ICONOGRAPHY AND  
LITERATURE****3 units**

This course introduces relationship between the visual and literary arts. The course looks at the literary background of Eastern and Western art works and analyzes these works as hermeneutic devices. Topics range from Graeco-Roman mythology to Filipino artists: Luna, Amorsolo, Botong Francisco, and Rizal.

**FA 166.5****ISSUES IN PHILIPPINE  
CONTEMPORARY ART****3 units**

This course is a series of seminars on present-day developments in Philippine art seen from various disciplines. Issues covered include interfaces of theory and

production, festivals, globalization, and the relationships that exist between the State, museums, commercial art galleries, artists, collectors, and the public.

**FA 166.6**  
**SPECIAL TOPICS IN ART**  
**THEORY I: WESTERN ART**  
**3 units**

This course is a seminar on specific ideas and movements on given historical junctures in western art. Emphasis is on key themes and motifs in western art.

**FA 166.7**  
**SPECIAL TOPICS IN ART**  
**THEORY II: EASTERN ART**  
**3 units**

This course is a seminar on specific ideas and movements on given historical junctures in eastern art. Emphasis is on key themes and motifs in Eastern art.

**FA 166.8**  
**ART THEORY: PROJECTS IN**  
**ART THEORY**  
**3 units**

This course discusses selected issues and problems in art theory and history. Seminars, workshops, or internships enable students to pursue issues and problems in art theory through a variety of media under the supervision of the instructor.

**FA 167**  
**ART HISTORY**  
**3 units**

These are courses that deal with histories or surveys of art in various genres, with overviews of motifs and themes of particular forms and regions.

**FA 167.1**  
**ART HISTORY: NARRATIVES**  
**OF WESTERN ART**  
**3 units**

This course is a critical introductory survey of the key styles and history of Western

painting, sculpture, and architecture, beginning in the Byzantine period, covering the Gothic, Renaissance, Mannerist, Baroque, Rococo, Neo-Classical, Romantic, Impressionist, and Post Impressionist periods. Focus is on key works and themes.

**FA 167.2**  
**ART HISTORY: SURVEY OF**  
**WORLD ART**  
**3 units**

This course is a survey of the history and development of painting, sculpture, architecture, and related visual arts of major world cultures, including European, American, Asian, African, Islamic, and Pre-Columbian.

**FA 167.3**  
**THE ARTS OF ASIA:**  
**PERSPECTIVE ON THE ARTS**  
**OF CHINA, JAPAN, INDIA**  
**AND SOUTHEAST ASIA TO**  
**THE PRESENT**  
**3 units**

This course exposes students to the social, cultural, and historical contexts in which the arts of the region have been created, in the light of both pre- and post-colonial experiences.

**FA 167.4**  
**ART HISTORY:**  
**INTRODUCTION TO**  
**MODERN ASIAN ART**  
**3 units**

This course is a survey of modernist developments in the painting and sculpture of India, China, Japan, South Korea, and Southeast Asia: Thailand, Indonesia, Malaysia, Singapore, and Vietnam, excluding the Philippines.

**FA 167.5**  
**ART HISTORY: PHILIPPINE**  
**INDIGENOUS ART**  
**3 units**

This course is a survey of themes and motifs in Philippine

indigenous art. Starting from pre-Hispanic examples, the course compares and contrasts local forms and styles in different ethnolinguistic and geographical settings, upland and lowland, to reveal the richness of Filipino cultural heritage.

**FA 167.6**  
**ART HISTORY: PHILIPPINE**  
**COLONIAL ART AND**  
**ARCHITECTURE**  
**3 units**

This course is a survey of sources, influences, as well as social and religious factors that shaped Philippine colonial art of the Spanish and American periods and comparative studies with Mexican and South American colonial and the Beaux-Arts movement in the United States.

**FA 167.7**  
**ART HISTORY: PHILIPPINE**  
**CHRISTIAN ART**  
**3 units**

This course studies the roots and influences that shaped Philippine Christian art. Topics include seeing the art as an intellectual and religious discipline; expressive space; liturgy and the arts; periods in the development of Christian art; and the rise and growth of Philippine Christian art.

**FA 167.8**  
**ART HISTORY:**  
**DEVELOPMENT OF**  
**ARCHITECTURE IN**  
**SOUTHEAST ASIA**  
**3 units**

This course studies the development of domestic and religious architecture in Thailand, Vietnam, Indonesia, Sulu-Marawi, and Lowland Luzon-Visayas. The course explores the characteristics of indigenous houses on stilts and the transformations resulting from their interaction with the High Cultures: Indic, Sinic, Islamic, and Western.

**FA 167.9****ART HISTORY: MOTIFS AND THEMES OF SOUTHEAST ASIAN ART****3 units**

This course is a study of the recurring motifs and themes in Southeast Asian art that transcend the urban traditions that influenced it such as the snake/crocodile, the diamond pattern, the house-on-stilts, the tattoo as a source of power.

**FA 167.10****SPECIAL TOPICS IN ART HISTORY: WESTERN ART****3 units**

This course involves seminars on specific material and ideological conditions within a given historical period in western art. Emphasis is on key themes and motifs in western art history.

**FA 167.11****SPECIAL TOPICS IN ART HISTORY: EASTERN ART****3 units**

These are seminars on specific material and ideological conditions within a given historical period in eastern art. Emphasis is on key themes and motifs in eastern art history.

**FA 167.12****SPECIAL TOPICS IN ART HISTORY: PHILIPPINE ART****3 units**

These are seminars on specific material and ideological conditions in Philippine art across historical periods that allow students to acquire greater familiarity of the Filipino cultural heritage in the visual arts. Emphasis is on key themes and motifs in Philippine art.

**FA 167.13****SPECIAL TOPICS IN ART HISTORY – CHINESE ART****3 units**

This is a series of seminars, workshops, or internships on

selected issues and problems in art theory and history. Students pursue issues and problems in art history through a variety of media under the supervision of the instructor.

**FA 168****ART MANAGEMENT****3 units**

These are courses related to the various fields in art management.

**FA 168.1****ART IN CONTEXT: PROFESSION AND PRACTICE****3 units**

This course examines the various professional practices open to arts practitioners outside its actual production. Students examine the professional skills they could need for their internship which includes aspects of curatorship, genres of art writing, documentation and maintenance of art, and marketing and promotional strategies.

**FA 168.2****APPROACHES IN THE PRODUCTION OF ART****3 units**

This studio and lecture course familiarizes students with the materials and techniques of art practitioners for the purpose of art appreciation rather than mastery of technique. The course covers the day-to-day “industry” production issues that art management professionals engage with on a regular basis.

**FA 168.3****THE CARE AND MAINTENANCE OF ART****3 units**

This is a course on basic principles of curatorship and connoisseurship. Observation, analysis, and critique of existing practices mark the main contours of the course, supplemented by visits to selected galleries, museums, and other art houses.

**FA 168.4****ART MANAGEMENT: ART DOCUMENTATION****3 units**

This is a course on the basics of art documentation, including authentication, appraisal, inventory, captioning, bibliography, and other topics. Activities include a review of existing practices, a preview of future practices in art documentation, and actual work performed in selected galleries, museums, and art houses.

**FA 168.5****ART MANAGEMENT: EXHIBITION DESIGN AND INSTALLATION****3 units**

This is a course on the principles and trends in the exhibition and installation of art. Visits to ongoing exhibits form the database on which to observe and to document present-day practices, as well as to recommend solutions to various exhibition and installation problems.

**FA 168.6****ART MANAGEMENT: CAREER MANAGEMENT IN ART****3 units**

This is a course on preparing the artist’s portfolio, press releases, gallery relations, and other topics. Principles of career management enable students to position themselves within the job market and also to maintain a sustainable art house in an increasingly competitive artistic environment.

**FA 168.7****SPECIAL TOPICS IN ART MANAGEMENT****3 units**

This is a seminar on selected issues and problems in art management. Seminars on specific issues in art management enable students to go in-depth on

the theory and practice of managing galleries, museums, and other art centers.

**FA 168.8**  
**ART MANAGEMENT:**  
**SPECIAL PROJECTS IN ART**  
**MANAGEMENT**

**3 units**

This is a course on selected issues and problems in art management. Workshops and internships in art centers allow students hands-on experience in management operations, art documentation, and the care and maintenance of art.

**FA 169**  
**RELATED FIELDS IN VISUAL**  
**ARTS**

**3 units**

These are courses that provide supplementary knowledge and skill for students in this track.

**FA 169.1**  
**RELATED FIELDS IN VISUAL**  
**ARTS: THE TEACHING OF**  
**ART**

**3 units**

This course is an overview of the principles and techniques in art education at different grade levels. Key topics include the fostering of creativity, the use of available materials, and the ways to evaluate and encourage students.

**FA 169.2**  
**RELATED FIELDS IN VISUAL**  
**ARTS: SPECIAL PROJECTS**  
**AND TOPICS IN ART**  
**EDUCATION**

**3 units**

This is a series of seminars, workshops, or internships on selected issues and problems in art education. Internships require a written agreement among the student, the school, and the workplace.

**FA 169.3**  
**RELATED FIELDS IN VISUAL**  
**ARTS: CHRISTIAN**  
**ICONOGRAPHY**

**3 units**

This course is a study of the rich language of color and symbols of Christian religious imagery. Topics include: Christ and Mary, Apostles, Virgins and Confessors, Holy Founders, places and objects, symbols of Evil, and animals and plants.

**FA 169.4**  
**RELATED FIELDS IN VISUAL**  
**ARTS: SPECIAL TOPICS IN**  
**RELATED FIELDS**

**3 units**

This is a research and writing course on selected issues and problems on topics linked to related fields in the visual arts.

**FA 169.5**  
**RELATED FIELDS IN VISUAL**  
**ARTS: SPECIAL PROJECTS IN**  
**RELATED FIELDS**

**3 units**

This is an independent or collaborative project on problems and issues linked to related fields in the visual arts.

**FA 170**  
**ELEMENTS OF VISUAL**  
**DESIGN**

**3 units**

These are courses that stress the theoretical or conceptual contours of visual and digital design.

**FA 170.4**  
**ELEMENTS OF VISUAL**  
**DESIGN: DIGITAL ART**

**3 units**

This course is an introduction to works of art created with new technologies. The course studies several contemporary artists whose expressions rely on new technologies with a view toward examining how the computer is an instrument for creativity.

**FA 170.5**  
**ELEMENTS OF VISUAL**  
**DESIGN: INTRODUCTION TO**  
**COMPUTATIONAL MEDIA**

**3 units**

This is a course covering four computer programming concepts: if statements, repeat loops, variables and routines; and how these create nonlinearity and interactivity and can be applied to communication and expression.

**FA 170.6**  
**ELEMENTS OF VISUAL**  
**DESIGN: SPECIAL TOPICS IN**  
**VISUAL DESIGN**

**3 units**

This course is an advanced study in a particular area of visual design in consultation with a faculty mentor. A written, signed contract is required prior to registering for this course.

**FA 170.7**  
**ELEMENTS OF VISUAL**  
**DESIGN: SPECIAL PROJECTS**  
**IN VISUAL DESIGN**

**3 units**

**Pre-requisite: Selection and approval of department**

This course prepares students for the professional world through the creation of superb quality art work for their portfolios. Students are acquainted with the fundamental business practices necessary to find an entry level position in the field.

**FA 170.8**  
**ELEMENTS OF VISUAL**  
**DESIGN: COLOR THEORY**  
**AND PSYCHOLOGY**

**3 units**

*For students without basic courses in arts and design.*

This is a course that explores color theory and psychology; color in art, craft, and social environment; techniques in painting; computer design, CMYK and RGB design, and digital output; conventional offset printing output; and use of



color in layout and image manipulation.

**FA 171**

**DESIGN AND STUDIO PROCEDURES**

**3 units**

These are course that stress the familiarity with studio work and electronic/digital technology as well as the ways of applying design principles and procedures.

**FA 171.1**

**DESIGN AND STUDIO PROCEDURES: COMPUTERS AND VISUAL DESIGN**

**3 units**

This course introduces the computer as a creative tool and the use and exploration of specific software and hardware applications in the context of art and design. Practical instruction is combined with theoretical perspective to investigate the impact of visual computing on the design process.

**FA 171.2**

**DESIGN AND STUDIO PROCEDURES: DIGITAL STUDIO**

**3 units**

This studio-based course teaches the theoretical and practical skills required to work in a digital environment. Students learn basic concepts and overviews of digital practice, communicate through the internet, and learn the basics of a broad range of drawing, imaging, multi-media, and publishing applications.

**FA 171.3**

**DESIGN AND STUDIO PROCEDURES: DESIGN MEDIA**

**3 units**

This course is a study on color, composition, and forms as ways of communicating design concepts and content. Topics include media and photography as tools for all design students:

color theory and mixing; variety of materials and media; introduction to the camera.

**FA 171.8**

**DESIGN AND STUDIO PROCEDURES: SPECIAL TOPICS IN DESIGN PROCEDURES**

**3 units**

This is an independent or group study that involves students in selected design procedure problems which may involve databases and software applications. Supervision is done by a faculty member, with internships conducted with an outside agency.

**FA 171.9**

**DESIGN AND STUDIO PROCEDURES: SPECIAL PROJECTS IN DESIGN PROCEDURES**

**3 units**

This course gives students the option of earning 3 units of credit per semester while gaining valuable work experience in creating design procedures for outside companies. The work arrangement must be formalized by a written agreement between the student, the workplace, and the school.

**FA 172**

**DESIGN PRODUCTION**

**3 units**

These are courses that focus on the products or outputs resulting from the application of design principles and procedures.

**FA 172.5**

**DESIGN PRODUCTION: VIDEO FOR NEW MEDIA**

**3 units**

This production class deals with the fundamental elements of video making: video and audio basics, planning, interviewing, shooting, and editing (both analog and digital). Decision making for video in a variety of

formats, from linear video to multimedia and desktop video is also explored.

**FA 172.6**

**DESIGN PRODUCTION: EXPERIMENTAL DIGITAL VIDEO**

**3 units**

This is a course on digital video. The first part of the semester focuses on creating compelling content; the second part deals with compositing and authoring, making use of DV editing stations to produce full screen, full motion video.

**FA 172.7**

**DESIGN PRODUCTION: DIGITAL SOUND LAB**

**3 units**

This is a course on digital soundtrack production. Topics include digital editing and sampling, mixing and MIDI, and basic and advanced concepts in audio production. Students are expected to produce soundtracks of both artistic interest and exceptional sound quality for their own media projects.

**FA 172.8**

**DESIGN PRODUCTION: INTERACTIVE COMPUTING IN PUBLIC PLACES**

**3 units**

This is a course on the design of place-based interactive computing systems in museums, visitor centers, stores, and other public spaces. Focus is on the challenges designers face when creating public space interactives that require little to no learning curve.

**FA 172.9**

**DESIGN PRODUCTION: SMALL SCALE GAME PROGRAMMING**

**3 units**

This course on interactive programming as it applies to creating games focuses on practical computer game

development through structured programming exercises, along with concept exercises and analysis. Topics include ways to program various game types namely, text-based games, puzzle games, and action and arcade games.

**FA 172.10**  
**DESIGN PRODUCTION:**  
**COMPUTER ANIMATION**  
**3 units**

This course is an introduction to the art and technique of animated computer graphics. Topics include computer multimedia technologies with emphasis on the development of personal artistic expression.

**FA 172.11**  
**DESIGN PRODUCTION:**  
**SPECIAL TOPICS IN DESIGN**  
**PRODUCTION**  
**3 units**

This is an independent or group study involving students in a self-directed production project to develop or demonstrate practical abilities. Supervision is done by a faculty member, with internships conducted with an outside agency.

**FA 172.12**  
**DESIGN PRODUCTION:**  
**SPECIAL PROJECTS IN**  
**DESIGN PRODUCTION**  
**3 units**

*Intended for third and fourth year students*

This is an optional project wherein students may earn a specified number of credits while gaining valuable work experience in an area appropriate to their studies. The work arrangement is formalized by a written agreement between the student, the workplace, and a faculty advisor.

**FA 173**  
**INFORMATION**  
**TECHNOLOGY AND SOCIETY**  
**3 units**

These are courses that tackle the social and ethical issues surrounding information technology. Focus is on its implications for social relations, worldviews, faith, and culture.

**FA 173.1**  
**INFORMATION**  
**TECHNOLOGY AND SOCIETY:**  
**MEDIA, SOCIETY, AND THE**  
**BATTLE FOR CYBERSPACE**  
**3 units**

This course discusses media and technology and society, as well as the people and institutions who mean to shape their direction, including how to think about media and technology for oneself, and how to defend that thinking in any context.

**FA 173.2**  
**INFORMATION**  
**TECHNOLOGY AND SOCIETY:**  
**BEHIND THE SCREEN:**  
**CREDIBILITY AND THE**  
**INTERNET**  
**3 units**

This course is a study of basic readings about the persuasive power that technology wields. The course proceeds to explore a new literacy for the interactive media.

**FA 173.3**  
**INFORMATION**  
**TECHNOLOGY AND SOCIETY:**  
**CIRCUITRY FOR THE SACRED**  
**3 units**

This is a course on designing electronic media applications that seeks to shape a new relationship to the sacred. Its applications are based on a relational operating system that is non-hierarchic. Both individual and team projects are undertaken.

**FA 173.4**  
**INFORMATION**  
**TECHNOLOGY AND SOCIETY:**  
**INFORMATION**  
**TECHNOLOGY AND SOCIAL**  
**TRANSFORMATION**  
**3 units**

This course is an analysis of how recent social, sexual, economic, and technological changes have affected and pervaded our daily lives, from sex, money, and the arts to jobs, religion, and fashion, destabilizing the traditionally accepted mores of society.

**FA 173.5**  
**INFORMATION**  
**TECHNOLOGY AND SOCIETY:**  
**INFORMATION**  
**TECHNOLOGY AND**  
**PHILIPPINE SOCIETY**  
**3 units**

This course reviews the development of information technology in the Philippines and an examination of its social, economic, and political consequences. Issues of interest include local practices in information technology, science, and culture, and the prospects for making Filipino IT competitive in the global scene.

**FA 173.6**  
**INFORMATION**  
**TECHNOLOGY AND SOCIETY:**  
**SPECIAL TOPICS IN**  
**INFORMATION**  
**TECHNOLOGY AND SOCIETY**  
**3 units**

These are seminars on selected aesthetic, social, or ethical issues in the conduct of information technology in the local or global setting. Papers and presentations permit students to take their own positions on the issue under consideration.



**FA 173.7**  
**INFORMATION**  
**TECHNOLOGY AND SOCIETY:**  
**SPECIAL PROJECTS IN**  
**INFORMATION**  
**TECHNOLOGY AND SOCIETY**  
**3 units**

This is a series of workshops or internships in centers or institutions devoted to the promotion of specific causes in the delivery of information technology, including e-commerce, to the larger public. A written agreement between the school and the workplace precedes this working arrangement.

**FA 174**  
**RELATED TOPICS IN**  
**INFORMATION DESIGN**  
**3 units**

These are courses that deal with applications of information design for various purposes according to the needs of students, departments, programs, and outside groups.

**FA 174.1**  
**RELATED TOPICS IN**  
**INFORMATION DESIGN:**  
**OBJECT DESIGN**  
**3 units**

This is an industrial design course which includes design of products, packaging, furniture, appliances, transportation, clothing, and any of the other things we use everyday.

**FA 174.6**  
**RELATED TOPICS IN**  
**INFORMATION DESIGN:**  
**DESIGNING FOR CHILDREN**  
**3 units**

This is a course on the creation, layout, pacing, and accompanying copywriting of story art for children, developing skills in the creation and presentation of both singular and sequential art specifically for the very young.

**FA 174.7**  
**RELATED TOPICS IN**  
**INFORMATION DESIGN:**  
**SEQUENTIAL ART AND THE**  
**GRAPHIC NOVEL**  
**3 units**

This course focuses on visual storytelling. Topics include the psychological reasoning behind the arrangement of panels; mould time; pacing of camera angles; balloon placement; composition dynamics; and lettering. The course also provides a foundation for the creative process in video animation and interactive multi-media productions.

**FA 174.8**  
**RELATED TOPICS IN**  
**INFORMATION DESIGN:**  
**SPECIAL TOPICS IN RELATED**  
**FIELDS**  
**3 units**

This is a seminar dedicated to the exploration of linkages between information technology and other areas of social and personal life, in various settings such as the family, religion, education, work, economy, and the state.

**FA 174.9**  
**RELATED TOPICS IN**  
**INFORMATION DESIGN:**  
**SPECIAL PROJECTS IN**  
**RELATED FIELDS**  
**3 units**

This course provides workshops or internships for students as individuals or as groups in places where information design work interfaces with traditional structures, resulting in accommodation or conflict. Field studies make students aware of how information technology impacts social and personal life in varied settings.

**FA 174.11**  
**RELATED TOPICS IN**  
**INFORMATION DESIGN:**  
**JAPANESE MANGA AND**  
**ANIME**  
**3 units**

This course is a survey of Japanese comics and animation which have gained international currency since the 1940s. Students analyze their stylistic and narrative conventions, the range of stock characters, and the Japanese-based devices and mythologies, but enriched by Western ideas, concepts, and inventions.

**FA 175**  
**STUDIO WORK**  
**3 units**

These are courses that enable students to reacquaint themselves with the materials, colors, shapes, and textures of objects they seek to translate in electronic and digital form.

**FA 175.1**  
**STUDIO WORK: ART**  
**MATERIALS AND**  
**TECHNIQUES**  
**3 units**

This course is an introduction to the basic media employed while creating visual works illustration. Students are also instructed in the techniques necessary to effectively use these materials in relation to the fundamental principles of color, form, and composition which are incorporated in the assignments.

**FA 175.2**  
**STUDIO WORK:**  
**INTRODUCTION TO**  
**ILLUSTRATION**  
**3 units**

This is an introduction to illustration as an art form and as a profession. Students explore a variety of media and methods. Three areas of illustration problem-solving are discussed: the development of a systematic approach to solving an illustration assignment, design skills, and media exploration.

**FA 175.3****STUDIO WORK:  
INTRODUCTION TO  
DRAWING****3 units**

This course is a study of the principles and practice of drawing still life and figurative forms. When drawing naturally, the course follows the revolutionary but controversial exercises and course on drawing developed by Nicolades and elaborated by Betty Edwards.

**FA 175.5****STUDIO WORK:  
INTRODUCTION TO  
SCULPTURE****3 units**

This course is an introduction to a classical technique for increasing students' sense of composition, perception of light and shadow and texture. Clay sculptures can serve as maquettes for other projects or the positives for molds for cold and metal castings.

**FA 175.6****STUDIO WORK: LOW-TECH  
GRAPHICS****3 units**

This is a course on collograph, monoprint, and woodcuts. Emphasis is on experimentation with inks and textures. The history and significance of low-tech graphics in Western and Eastern art are also discussed.

**FA 175.7****STUDIO WORK: ETCHING  
AND AQUATINT****3 units**

This is a course on etching and aquatints using acids, proofing and editioning of prints with an accent on technical composition and dexterity. Studio work is supplemented by examples from master artists in Western and Eastern art.

**FA 175.8****STUDIO WORK:  
PHOTOGRAPHY****3 units**

This is a course on photography as graphic art and its approaches and styles. Emphasis is on the use of photographs for computer use, as well as the handling of digital cameras.

**FA 175.9****STUDIO WORK:  
CARTOONING AND  
CHARACTER DEVELOPMENT****3 units**

This is a course on observing and translating the characteristics that make an individual or object unique. Through a series of demonstrations and supervised in-class drawing, students develop their observational skills from both 2D and 3D points of reference.

**FA 175.10****STUDIO WORK: SPECIAL  
TOPICS IN STUDIO WORK  
(CHINESE PAINTING)****3 units**

This course discusses selected issues in supplementary studio work. Together with a faculty member, students specialize in one genre of studio work (illustration, drawing, painting, sculpture, and the like) or handle a new genre altogether.

**FA 175.11****STUDIO WORK: SPECIAL  
PROJECTS IN STUDIO WORK****3 units**

This course discusses selected activities in supplementary studio work. By arrangement, students become apprentices to professionals in a specific genre of studio work for the equivalent of a 3-unit class.

**FA 180****THEATRE PRODUCTION****3 units**

These are courses that involve students in actual theatre production of an existing drama company.

**FA 180.1****THEATRE PRODUCTION:  
THEATER PRODUCTION I****3 units**

*The first of three courses that involves students in actual theater production of an existing drama company.*

This course gives students the opportunity to work for credit in various aspects of theater work, as cast and crew, and thus gain hands-on experience in stage production prior to mounting their own independent productions.

**FA 180.2****THEATRE PRODUCTION:  
THEATER PRODUCTION II****3 units**

*The second of three courses that involves students in actual theater production of an existing drama company.*

This course gives students the opportunity to work for credit in various aspects of theater work, as cast and crew, to gain hands-on experience in stage production prior to mounting their own independent productions.

**FA 180.3****THEATRE PRODUCTION:  
THEATER PRODUCTION III****3 units**

*The third of three courses that involves students in actual theater production of an existing drama company.*

This course gives students the opportunity to work for credit in various aspects of theater work, as cast and crew, and thus gain hands-on experience in stage production prior to mounting their own independent productions.

**FA 190**  
**SPECIAL TOPICS IN THEATER**  
**ARTS**  
**3 units**

These courses discuss selected problems and issues in theater history, theory, and practice.

**FA 190.1**  
**SPECIAL TOPICS IN THEATER**  
**ARTS: FILM AND DESIGN**  
**3 units**

This course is a study of vintage and contemporary films that are outstanding in production design. Focus is on design concepts and historical sources to identify and explain stylization and abstraction in design.

**FA 190.2**  
**SPECIAL TOPICS IN THEATER**  
**ARTS: SHAKESPEARE IN**  
**THEATER**  
**3 units**

This course is a study of Shakespeare's plays in performance. Subjects include the theatrical dynamics and production of selected plays in Shakespeare's playhouse and the theatrical and cultural study of significant productions in selected periods, such as modernism and postmodernism.

**FA 190.3**  
**SPECIAL TOPICS IN THEATER**  
**ARTS: THEATER CRITICISM:**  
**SHAKESPEARE ON FILM**  
**3 units**

This course studies the various ways Shakespeare's plays are transformed from literary works into cultural works. Students examine his original texts to see how and why film adaptation of his plays offers new cultural narrative that work with and against the discourse of his world.

**FA 190.4**  
**SPECIAL TOPICS IN**  
**THEATER ARTS:**  
**PRESENTATION SKILLS**  
**3 units**

This course is a seminar on the use of voice, body, and mind to communicate ideas for use in classroom settings, conferences, meetings, lectures, forums, and related public assemblies.

**FA 190.5**  
**SPECIAL TOPICS IN THEATER**  
**ARTS: PUBLIC SPEAKING**  
**3 units**

This course teaches students how to plan, organize, write, and deliver speeches. Students develop body, voice, and mind so that they can speak with confidence and clarity, be audience-centered at all times, use visual aids effectively, and deal with the unexpected in speech situations.

**FA 191**  
**SPECIAL PROJECTS IN**  
**THEATER ARTS**  
**3 units**

This course discusses selected problems and issues in theater arts and crafts. This includes apprenticeships in professional and/or semi-professional companies.

**FA 198.1**  
**SENIORS' CREATIVE PROJECT**  
**I (FOR ART MANAGEMENT)**  
**3 units**

This course is the first of two creative, academic, or internship projects under the supervision of a faculty member.

**FA 198.4**  
**SENIORS' CREATIVE PROJECT**  
**I (FOR THEATER ARTS)**  
**3 units**

This is the first of two creative or academic projects under the supervision of a faculty member.

**FA 199.1**  
**SENIORS' CREATIVE PROJECT**  
**II (FOR ART MANAGEMENT)**  
**3 units**

This course is the second of two creative or academic projects under the supervision of a faculty member.

**FA 199.4**  
**SENIORS' CREATIVE PROJECT**  
**II (FOR THEATER ARTS)**  
**3 units**

This course is the second of two creative or academic projects under the supervision of a faculty member.

**FA-AM 101.1**  
**INTRODUCTION TO VISUAL**  
**ARTS**  
**3 units**

This is a basic course designed to develop an appreciation of the visual arts by understanding the elements of pictorial design and the principles of visual composition. An interdisciplinary approach is used to establish correspondence among the visual arts, music and literature.

**FA-AM 101.2**  
**VISUAL ARTS:**  
**INTRODUCTION TO**  
**PHILIPPINE VISUAL ARTS**  
**3 units**

This course is a thematic study of the visual arts in the Philippines in the context of history and society. It focuses in mode of production, distribution, and reception, as well as study of institutions of visual arts and how these institutions shape and define art.

**FA-CW 101.1**  
**FICTION WRITING:**  
**INTRODUCTION TO FICTION**  
**WRITING**  
**3 units**

This course is an analytical study and appreciation of fiction with emphasis on the fictionist's craft. It attempts to survey the genre

through the various strains by which it has and can be classified, and more importantly how fictionists create and shape their work.

**FA-CW 101.2**

**FICTION WRITING: FICTION WRITING WORKSHOP I**  
**3 units**

This is a workshop course where original works of students are critically discussed in small and large groups under the guidance of an instructor who is an accomplished fictionist. Topics pertinent to the students' development as writers will be discussed, specifically why and how they use their chosen form.

**FA-CW 101.3**

**FICTION WRITING: FICTION WRITING WORKSHOP II**  
**3 units**

This is a workshop course where original works of students are critically discussed in small and large groups under the guidance of an instructor who is an accomplished fictionist. Topics pertinent to the students' development as writers will be discussed, specifically why they write and what they hope to achieve by writing.

**FA-CW 102.1**

**NONFICTION WRITING: INTRODUCTION TO NONFICTION WRITING**  
**3 units**

This course is an analytical study and appreciation of creative nonfiction with emphasis on the essayist's craft. It attempts to survey the genre through the various strains by which it has and can be classified, and more importantly how essayists create and shape their work.

**FA-CW 102.2**

**NONFICTION WRITING: NONFICTION WRITING WORKSHOP I**  
**3 units**

This is a workshop course where original works of students are critically discussed in small and large groups under the guidance of an instructor who is an accomplished essayist. Topics pertinent to the students' development as writers will be discussed, specifically why and how they use their chosen form.

**FA-CW 102.3**

**NONFICTION WRITING: NONFICTION WRITING WORKSHOP II**  
**3 units**

This is a workshop course where original works of students are critically discussed in small and large groups under the guidance of an instructor who is an accomplished essayist. Topics pertinent to the students' development as writers will be discussed, specifically why they write and what they hope to achieve by writing.

**FA-CW 102.5**

**NONFICTION WRITING: THE POLEMICAL ESSAY**  
**3 units**

This course surveys how writers have collected information, defined their positions in their respective societies, and built powerful arguments. It examines how sound research, challenging opinions, and attention to articulation can turn into compelling writing. Students are then challenged to write their own polemical essays.

**FA-CW 102.6**

**NONFICTION WRITING: FOOD WRITING**  
**3 units**

This course examines the storied tradition of food writing. It examines works by known food

writers and modern writers of gustatory importance. Students are then challenged to write food essays that use sensory language to investigate food and its relation to pleasure, identity, and social conditions.

**FA-CW 103.1**

**POETRY WRITING: INTRODUCTION TO POETRY WRITING**  
**3 units**

This is an analytical study and appreciation of poetry with emphasis on the poet's craft. It attempts to survey the genre through the various strains by which it has and can be classified, and more importantly how authors create and shape their work.

**FA-CW 103.2**

**POETRY WRITING: POETRY WRITING WORKSHOP I**  
**3 units**

This is a workshop course where original works of students are critically discussed in small and large groups under the guidance of an instructor who is an accomplished poet. Topics pertinent to the students' development as writers will be discussed, specifically why and how they use their chosen form.

**FA-CW 103.3**

**POETRY WRITING: POETRY WRITING WORKSHOP II**  
**3 units**

This is a workshop course where original works of students are critically discussed in small and large groups under the guidance of an instructor who is an accomplished poet. Topics pertinent to the students' development as writers will be discussed, specifically why they write and what they hope to achieve by writing.

**FA-CW 103.5**  
**POETRY WRITING: THE**  
**POETIC SEQUENCE**  
**3 units**

This course studies the poetic sequence as a form that provides enough room to roam for the articulation of the contemporary experience. It examines how the centripetal and centrifugal elements operate in an autonomous poem and how they function, on a large scale, in a poetic sequence.

**FA-CW 104.1**  
**DRAMA WRITING:**  
**INTRODUCTION TO DRAMA**  
**WRITING**  
**3 units**

This is an analytical study and appreciation of drama with emphasis on the playwright's craft. It attempts to survey the genre through the various strains by which it has and can be classified, and more importantly how authors create and shape their work.

**FA-CW 104.2**  
**DRAMA WRITING: DRAMA**  
**WRITING WORKSHOP I**  
**3 units**

This is a workshop course where original works of students are critically discussed in small and large groups under the guidance of an instructor who is an accomplished playwright. Topics pertinent to the students' development as writers will be discussed, specifically why and how they use their chosen form.

**FA-CW 104.3**  
**DRAMA WRITING: DRAMA**  
**WRITING WORKSHOP II**  
**3 units**

This is a workshop course where original works of students are critically discussed in small and large groups under the guidance of an instructor who is an accomplished playwright. Topics pertinent to the students'

development as writers will be discussed, specifically why they write and what they hope to achieve by writing.

**FA-CW 111.1**  
**THEORY AND CRITICISM FOR**  
**WRITERS: INTRODUCTION**  
**TO THEORY AND CRITICISM**  
**FOR WRITERS**  
**3 units**

This course studies literary theory and criticism as it has manifested itself in the reading and writing of contemporary literature. The course frames the practice of creative writing within the context of the writer's training in the principles of critical reading and thinking.

**FA-CW 112.1**  
**SPECIAL TOPICS IN**  
**CREATIVE WRITING: THE**  
**NOVEL AND OTHER BOOK-**  
**LENGTH WORKS**  
**3 units**

This course analytically studies the novel as well as other long-form works of literature (e.g., the book-length poem, the serial reportage, or the autobiography). It analyzes through reading models works the process of immersion demanded of readers and writers of such literature.

**FA-CW 113.1**  
**WRITING FOR CHILDREN**  
**3 units**

This workshop course focuses on developing writing techniques and reading skills particular to children's literature. It involves the study of genres (e.g., the picture book, the storybook, middle-grade readers, young adult fiction), and of concepts particular to children's literature (e.g., the child audience, the book, moral responsibility).

**FA-CW 199.1**  
**SENIORS' CREATIVE**  
**PROJECT: CREATIVE**  
**WRITING SENIORS'**  
**PROJECT I**  
**3 units**

This course prepares seniors for the completion of the creative component of their Seniors' Project, the final task for all Creative Writing majors. The creative component evidences the seniors' understanding of the craft of their chosen genre through their original works.

**FA-CW 199.2**  
**SENIORS' CREATIVE**  
**PROJECT: CREATIVE**  
**WRITING SENIORS'**  
**PROJECT II**  
**3 units**

This course prepares seniors for the completion of the academic essay of their Seniors' Project, the final task for all Creative Writing majors. Through their essays, the seniors take stock of their work and write intelligently and critically about their craft and output within the context of pertinent traditions.

**FA-ID 10.1**  
**FOUNDATION STUDIO:**  
**DIGITAL STUDIO**  
**3 units**

The course introduces students to different applications and software for digital imaging and desktop publication. Students are expected to undergo extensive hands-on training that will equip with expertise in digital tools for better and more efficient use in the design studio.

**FA-ID 10.2**  
**FOUNDATION STUDIO:**  
**DRAWING**  
**3 units**

This course is a study of the principles and practice of drawing still life and figurative forms. When drawing naturally, the course follows the revolutionary



but controversial exercises and course on drawing developed by Nicolades and elaborated by Betty Edwards.

**FA-ID 10.3  
FOUNDATION STUDIO:  
PAINTING**

**3 units**

This course is a study of basic painting methods and techniques as applied to both representational and abstract movies. Acrylic and/or oil paints are utilized. Discussion and critique of students works foster interactive learning among students.

**FA-ID 101.1  
DESIGN THEORY AND  
HISTORY: INFORMATION  
ARCHITECTURE**

**3 units**

This course is an exploration of how designers present complex information so it is understandable and usable. The course delves into theories of information design and analyzes many practical examples. Students read and discuss the ideas of leading designers and thinkers, and draw insights from psychology, anthropology, and linguistics.

**FA-ID 101.2  
DESIGN THEORY AND  
HISTORY: ELEMENTS OF  
VISUAL COMMUNICATION**

**3 units**

This course explores the creative process of making images that can move ideas and information to the minds of others. Topics include the general principles that are the foundation of creative thinking and successful solutions for graphic design, illustration, and advertising art direction communication problems.

**FA-ID 101.3  
DESIGN THEORY AND  
HISTORY: ELEMENTS OF  
VISUAL LANGUAGE**

**3 units**

This course develops a common design vocabulary for students who do not already have a background in Graphic Design. The production work undertaken focuses on the computer. Some areas covered include: line, composition, texture, proportion, weights, volume, space; the psychology of received images; light; typography; symmetry; legibility; and abstract representation.

**FA-ID 101.4  
DESIGN THEORY AND  
HISTORY: DESIGN AND  
VISUAL CULTURE**

**3 units**

The course introduces students to design awareness; role of designer in contemporary culture with emphasis on visual literacy and perception, visual problem solving, and design culture. It examines cases of design success and creates a frame of reference for Information Design majors.

**FA-ID 101.5  
DESIGN THEORY AND  
HISTORY: HISTORY OF  
GRAPHIC DESIGN**

**3 units**

The course introduces fact-based discussions on graphic designed objects in their historical context, establishing a clear perspective of where the field has grown, from its roots in the visual arts to the many different branches it has now. The course introduces excellent case studies and analyses of brilliant design solutions.

**FA-ID 101.6  
DESIGN THEORY AND  
HISTORY: PHILIPPINE  
DESIGN**

**3 units**

The course focuses on exploring the rich and varied field of Philippine art and culture for integration in information design in the hope of enriching Philippine design. It examines different genres, themes and media, building the identity of a Filipino designer that is familiar with our rich history of the visual arts.

**FA-ID 102.1  
DESIGN PROCEDURES:  
DIGITAL DESIGN  
PROCEDURES**

**3 units**

This course offers basic instruction in complex computer pre-press and hand presentation skills. These are taught in the context of simulated professional job processes. Focus is on the development of basic skills to technically produce publications in the graphic design and advertising professions.

**FA-ID 102.2  
DESIGN PROCEDURES: BASIC  
TYPOGRAPHY**

**3 units**

This course discusses the use of type as a basic element of graphic communication, including principles which determine typeface selection (to visually communicate the desired effect) and the appreciation of letter forms. Typesetting and typographic layout on computer are stressed and practiced in the classroom.

**FA-ID 102.3  
DESIGN PROCEDURES:  
ADVANCED TYPOGRAPHY**

**3 units**

**Pre-requisite: FA-ID 102.2**

The course further explores typography as a form of communication, emphasizing the interpretation of language with forms and composition. Students are pushed beyond the boundaries of conventional type

and into experimental typography with levels of academic work and research.

**FA-ID 102.4**  
**DESIGN PROCEDURES: BASIC WEB DESIGN**

**3 units**

The course facilitates the creative use of the internet as a medium for new artistic, journalistic, personal, and commercial projects. Students are expected to design and implement one or more web sites of their own and to demo their works-in-progress frequently.

**FA-ID 102.5**  
**DESIGN PROCEDURES: ADVANCED WEB DESIGN**

**3 units**

**Pre-requisite: FA-ID 102.4**

This course examines various types of sites—informational, transactional, online communities, narrative experiences, and fan sites to determine what their attraction is and for what audiences. Students work in teams to plan, design and construct a project for the web.

**FA-ID 102.6**  
**DESIGN PROCEDURES: MULTIMEDIA PROCEDURES**

**3 units**

This is an introductory course that provides students with hands-on experience using various technologies, e.g. online communities, digital imaging, audio, video, animation, authoring environments, and the World Wide Web and how these can be employed in a variety of multimedia applications.

**FA-ID 103.1**  
**DESIGN PRACTICE: BASIC GRAPHIC DESIGN**

**3 units**

This course studies the design process and its conversion into graphic communicative forms. Topics include an introduction to

the principles, sequencing, structure, typography, symbol design, and color; exploration of the creative display, organization and communication of ideas; and information through word and image.

**FA-ID 103.2**  
**DESIGN PRACTICE: ADVANCED GRAPHIC DESIGN**

**3 units**

**Pre-requisites: FA-ID 103.1**

This course studies design in communication, combining theoretical studies with applied problems in graphic design. These term-long projects deal with specific issues such as design history, information graphics, environmental design, letterform construction, electronic imaging, conceptual bookmaking, video/film graphics, interactive media, community action, and narrative structures.

**FA-ID 103.3**  
**DESIGN PRACTICE: BRANDING**

**3 units**

The course introduces students to brand concepts and how the branding process takes place. It solidifies the students' grasp of design-related work in the field of corporate design, creating strategies that build brand awareness and loyalty based on customers' experience of a specific object or idea.

**FA-ID 103.4**  
**DESIGN PRACTICE: PACKAGING DESIGN**

**3 units**

This course introduces students to the fundamentals of dimensional construction while simultaneously integrating many design disciplines and principles. Imaginative use of materials and surface graphics are encouraged. Marketing and production problems are also explored.

**FA-ID 103.5**  
**DESIGN PRACTICE: ADVERTISING DESIGN**

**3 units**

This course discusses the development and presentation of visual and verbal messages that move consumers to action with emphasis on creative writing skills. The responsibilities of the art director are explored—from conceptualization and integrated design to personal interaction with clients, copywriters, photographers, and illustrators.

**FA-ID 103.6**  
**DESIGN PRACTICE: VIDEO IN NEW MEDIA**

**3 units**

This production class deals with the fundamental elements of video-making: video and audio basics, planning, interviewing, shooting and editing. This class explores decision-making for video in a variety of formats, from linear video to multimedia and desktop video.

**FA-ID 103.7**  
**DESIGN PRACTICE: COMPUTER ANIMATION**

**3 units**

This course is an introduction to the art and technique of animated computer graphics for use in full-length features, short films, and interactive interfaces. Exploration of computer multimedia technologies with emphasis on the development of personal artistic expression.

**FA-ID 198.1**  
**PORTFOLIO DEVELOPMENT: PORTFOLIO PRESENTATION**

**3 units**

The course introduces design industry standards in Portfolio making in both digital and printed presentations of creative work. Students produce a complete, efficient and memorable portfolio by the end of the semester, to further provide

them with tools necessary to acquire potential jobs and clients.

**FA-ID 199.1**  
**SENIORS' CREATIVE**  
**PROJECT: INFORMATION**  
**DESIGN SENIORS PROJECT I**  
**3 units**

**FA-ID 199.2**  
**SENIORS' CREATIVE**  
**PROJECT: INFORMATION**  
**DESIGN SENIORS PROJECT II**  
**3 units**  
**Pre-requisite: FA-ID 199.1**  
Seniors embark on community-oriented projects that apply knowledge and skills acquired

over the past years. Over the course of the year, seniors will also be tasked to develop other skills crucial to a career in design and the arts: proposal writing, client communication, and project presentation.





2/F Horacio de la Costa Hall  
(632) 426-6001 loc. 5340/5341  
is.soh@ateneo.edu

# INTERDISCIPLINARY STUDIES

**Rofel G. Brion** (*Semester I*)  
**Jonathan O. Chua** (*Summer & Semester II*)  
*Chair*

**Faculty**  
**Professor Emeritus**  
Soledad S. Reyes

**Professor**  
Rofel G. Brion

**Assistant Professors**  
Nikki B. Carsi Cruz  
Jonathan O. Chua  
Marita Concepcion C. Guevara

**Lecturers**  
Jonathan A. Co  
Dorothea C. Garing  
Catherine B. Guballa  
Darren L. Gustafson  
Erlinda Eileen G. Lolarga  
Gabriel Ma. H. Lopez  
George Peter A. Lorenzana  
Renato T. Oliveros, S.J.  
Allan J. Pastrana  
Concepcion L. Rosales  
Nicanor G. Tiongson  
Lester C. Yee

The Department of Interdisciplinary Studies and the Humanities Program under its wing seek to enhance the Liberal Arts component of the curriculum by offering a variety of courses in the Arts.

It is the mission of the Interdisciplinary Studies Department to develop well-rounded students who are able to see beyond disciplinary lines and synthesize knowledge gained from different disciplinary perspectives, who have professional skills in disciplines of their own choosing, and who are equipped to view and respond to the world from a holistic perspective.

It is the mission of the Humanities Program to develop students who have a solid grounding in the Humanities, the ability to synthesize beyond disciplinary perspectives, and professional skills in an area in the Humanities.

## BACHELOR OF ARTS, MAJOR IN INTERDISCIPLINARY STUDIES

The course of studies in this program is highly flexible and is tailored to the chosen specialization of the individual student, rather than to the requirements of a traditional major. Students may take courses combined from various programs such as management and psychology, literature and communication, or political science and economics. Essential to this approach is the individual direction that is provided to each student by a senior faculty member.

Many IS graduates proceed to law or business school; work in advertising, business, and government; or become teachers, writers, and artists.

### FIRST YEAR

<u>First Semester</u>		<u>Units</u>	<u>Second Semester</u>		<u>Units</u>
EN 11	Communication in English I	3	EN 12	Communication in English II	3
LIT 13	Introduction to Fiction	3	LIT 14	Introduction to Poetry and Drama	3
MA 11	Modern Mathematics I	3	MA 12	Modern Mathematics II	3
FIL 11	Sining ng Pakikipagtalastasan sa Filipino I	3	FIL 12	Sining ng Pakikipagtalastasan sa Filipino II	3
NATSCI 1A	Natural Science, Lecture	3	NATSCI 2A	Natural Science, Lecture	3
NATSCI 1B	Natural Science, Laboratory	1	NATSCI 2B	Natural Science, Laboratory	1
PE 1	Physical Education	(2)	PE 2	Physical Education	(2)
INTAC 1	Introduction to Ateneo Culture and Traditions	(0)	INTAC 2	Introduction to Ateneo Culture and Traditions	(0)
		<i>Total:</i> 16			<i>Total:</i> 16

### SECOND YEAR

<u>First Semester</u>		<u>Units</u>	<u>Second Semester</u>		<u>Units</u>
FIL 14	Panitikan ng Pilipinas	3	SCI 10	Science and Society	3
SA 21	Introduction to Sociology and Anthropology	3	FLC	Foreign Language and Culture	3
HI 16/HI 18	Asian History/Western History	3	EC 102	Basic Economics, Agrarian Reform and Taxation	3
PSY 101	General Psychology	3	TH 121	An Introduction to Doing a Catholic Theology	3
PROGRAM ELECTIVE		3	POS 100	Politics and Governance	3
IS ELECTIVE*		3	PROGRAM ELECTIVE		3
PE 3	Physical Education	(2)	PE 4	Physical Education	(2)
NSTP 1	National Service Training Program	(3)	NSTP 2	National Service Training Program	(3)
		<i>Total:</i> 18			<i>Total:</i> 18

### THIRD YEAR

<u>First Semester</u>		<u>Units</u>	<u>Second Semester</u>		<u>Units</u>
PH 101	Philosophy of the Human Person I	3	PH 102	Philosophy of the Human Person II	3
PROGRAM ELECTIVE		3	TH 131	Marriage, Family Life and Human Sexuality in a Catholic Perspective	3
PROGRAM ELECTIVE		3	HI 165	Rizal and the Emergence of the Philippine Nation	3
PROGRAM ELECTIVE		3	PROGRAM ELECTIVE		3
PROGRAM ELECTIVE		3	PROGRAM ELECTIVE		3
IS ELECTIVE*		3	IS ELECTIVE*		3
		<i>Total:</i> 18			<i>Total:</i> 18

### FOURTH YEAR

<u>First Semester</u>		<u>Units</u>	<u>Second Semester</u>		<u>Units</u>
PH 103/	Philosophy of Religion/		PH 103/	Philosophy of Religion/	
PH 104	Foundations of Moral Value	3	PH 104	Foundations of Moral Value	3
TH 141/	A Theology of the Catholic Social Vision/		TH 141/	A Theology of the Catholic Social Vision/	
TH 151	The Catholic Commitment of Today's Filipino: A Synthesis	3	TH 151	The Catholic Commitment of Today's Filipino: A Synthesis	3
HI 166	Philippine History	3	IS 152	Senior Seminar II	3
IS 145/146/147	Great Books I / II / III	3	FREE ELECTIVE		3
IS 151	Senior Seminar I	3	FREE ELECTIVE		3
IS ELECTIVE*		3			<i>Total:</i> 15
		<i>Total:</i> 18			

\*One of these must be IS 134.6

Total Number of Academic Units: 137

Curriculum Effective Freshman Batch SY 2002-2003

## BACHELOR OF ARTS, MAJOR IN HUMANITIES

The Humanities Program is especially for students who are interested in art, literature, languages, history, education, and philosophy. A special feature of the program is the three courses introducing the Great Books.

Graduates are expected to be well-rounded humanists—ideal candidates for graduate work or for positions in teaching, research, government, and even business.

### FIRST YEAR

<u>First Semester</u>	<u>Units</u>	<u>Second Semester</u>	<u>Units</u>
EN 11 Communication in English I	3	EN 12 Communication in English II	3
LIT 13 Introduction to Fiction	3	LIT 14 Introduction to Poetry and Drama	3
MA 11 Modern Mathematics I	3	MA 12 Modern Mathematics II	3
FIL 11 Sining ng Pakikipagtalastasan sa Filipino I	3	FIL 12 Sining ng Pakikipagtalastasan sa Filipino II	3
NATSCI 1A Natural Science, Lecture	3	NATSCI 2A Natural Science, Lecture	3
NATSCI 1B Natural Science, Laboratory	1	NATSCI 2B Natural Science, Laboratory	1
PE 1 Physical Education	(2)	PE 2 Physical Education	(2)
INTAC 1 Introduction to Ateneo Culture and Traditions	(0)	INTAC 2 Introduction to Ateneo Culture and Traditions	(0)
<i>Total:</i>	<i>16</i>	<i>Total:</i>	<i>16</i>

### SECOND YEAR

<u>First Semester</u>	<u>Units</u>	<u>Second Semester</u>	<u>Units</u>
FIL 14 Panitikan ng Pilipinas	3	HI 16/HI 18 Asian History/Western History	3
SA 21 Introduction to Sociology and Anthropology	3	EC 102 Basic Economics, Agrarian Reform and Taxation	3
TH 121 An Introduction to Doing a Catholic Theology	3	SCI 10 Science and Society	3
FLC Foreign Language and Culture	3	PSY 101 General Psychology	3
HUM 141 Introduction to Aesthetics	3	HUM 142 Interdisciplinary Approaches to the Arts	3
HUM ELECTIVE	3	HUM ELECTIVE	3
PE 3 Physical Education	(2)	PE 4 Physical Education	(2)
NSTP 1 National Service Training Program	(3)	NSTP 2 National Service Training Program	(3)
<i>Total:</i>	<i>18</i>	<i>Total:</i>	<i>18</i>

### THIRD YEAR

<u>First Semester</u>	<u>Units</u>	<u>Second Semester</u>	<u>Units</u>
PH 101 Philosophy of the Human Person I	3	PH 102 Philosophy of the Human Person II	3
TH 131 Marriage, Family Life and Human Sexuality in a Catholic Perspective	3	POS 100 Politics and Governance	3
HI 165 Rizal and the Emergence of the Philippine Nation	3	HUM 145/146/147 Great Books	3
HUM ELECTIVE	3	IS ELECTIVE	3
HUM ELECTIVE	3	IS ELECTIVE	3
HUM ELECTIVE	3	HUM ELECTIVE	3
<i>Total:</i>	<i>18</i>	<i>Total:</i>	<i>18</i>

### FOURTH YEAR

<u>First Semester</u>	<u>Units</u>	<u>Second Semester</u>	<u>Units</u>
PH 103/ PH 104 Philosophy of Religion/ Foundations of Moral Value	3	PH 103/ PH 104 Philosophy of Religion/ Foundations of Moral Value	3
TH 141/ TH 151 A Theology of the Catholic Social Vision/ The Catholic Commitment of Today's Filipino: A Synthesis	3	TH 141/ TH 151 A Theology of the Catholic Social Vision/ The Catholic Commitment of Today's Filipino: A Synthesis	3
HI 166 Philippine History	3	HUM 152 Senior Seminar II	3
HUM 151 Senior Seminar I	3	FREE ELECTIVE	3
HUM 145/146/147 Great Books I/II/III	3	FREE ELECTIVE	3
IS ELECTIVE	3		
<i>Total:</i>	<i>18</i>	<i>Total:</i>	<i>15</i>

Total Number of Academic Units: 137  
Curriculum Effective Freshman Batch SY 2002-2003

## MINOR IN MUSIC LITERATURE

The Minor in Music Literature is designed to systematically develop a cultivated taste for the musical arts. After the students' orientation on the written language of music and on the traditions of playing music through 500 years of Western music history, a course on basic music research will develop a proper writing style for program notes that would eventually, through enough experience, lead to sound and healthy music criticism. A required course in Philippine Music gives students a local perspective of performance practice and research that is rooted in both native and western influences.

The music electives give students a free hand in further studies on a particular genre of music, e.g., Asian music or musical forms of the West such as symphonic music, liturgical music, opera, and Latin American music.

Graduates of this Minor can work as music writers and researchers of cultural foundations like the CCP, NCCA, and the MCO Foundation. They can also teach music appreciation in the primary and secondary levels. Ideally, they should be equipped to write about music in print media: reviews on concerts and recordings and articles about music in general, its aesthetics, and its role in an individual's mental development and emotional growth.

The students fulfill the requirements of the Minor in Music Literature upon passing, with a grade of at least C, the courses listed below:

IS 121.3	Music: The Development of Music in Western Society	3 units
IS 121.7	Music: Rudiments of Music	3 units
IS 121.8	Music: Basic Music Research and Criticism	3 units
IS 161.6	Philippine Music and Culture	3 units
IS Music Elective		3 units

For the IS Music Elective, the student may choose any one of the electives listed below:

IS 121.4	Music: Liturgical Music History and Traditions	3 units
IS 121.5	Music: Latin American Music and Culture	3 units
IS 121.6	Music: An Introduction to Opera	3 units
IS 121.9	Music: Philippine Traditional Song Forms of the 20 <sup>th</sup> Century	3 units
IS 121.10	Music: Art Song as Condensed Opera	3 units
IS 121.11	Music: Sonata, Symphony, and Concerto	3 units
IS 121.12	Music: Wagner's Ring: A 21 <sup>st</sup> Century Approach	3 units
IS 121.13	Music: Form Analysis of 18 <sup>th</sup> Century Works	3 units
IS 121.14	Music: Program Music of the 19 <sup>th</sup> Century	3 units
IS 121.15	Music: The Broadway Musical of the 20 <sup>th</sup> Century	3 units

## COURSE OFFERINGS

### **HUM 141**

#### **INTRODUCTION TO AESTHETICS**

##### **3 units**

This course is an introduction to elements and principles of the aesthetic experience in the visual arts, performing arts, and literature. Varieties of aesthetic norms and standards are examined.

### **HUM 142**

#### **INTERDISCIPLINARY APPROACHES TO THE ARTS**

##### **3 units**

This course is an introduction to the relationships that exist among the arts and such disciplines as philosophy, sociology, history, and psychology, as well as the precise ways in which art studies have been enriched by this interaction.

### **HUM 145**

#### **GREAT BOOKS I (ANCIENT PERIOD)**

##### **3 units**

This is a course on the Epics (Homer, Virgil), the Scriptures (the Bible, the Koran), the Greek dramas (Sophocles, Aeschylus), the Philosophers (Aristotle, Plato), and other enduring masterpieces of the ancient world. The course discusses and explores the ideas embodied in these texts.

### **HUM 146**

#### **GREAT BOOKS II (MEDIEVAL PERIOD)**

##### **3 units**

This is the second part of the Great Books series. The course provides insights into the human reality through the reading of books that have endured the test of time. Selections include the works of Dante, Cervantes, Shakespeare, Goethe, Augustine, and Machiavelli, among others.

### **HUM 147**

#### **GREAT BOOKS III (MODERN PERIOD)**

##### **3 units**

This course explores the traditional concerns of modernity (alienation, fragmentation) and debates on race, gender, class, and the existence of the canon of "great books": selections from 20<sup>th</sup> century world literatures.

### **HUM 151**

#### **SENIOR SEMINAR I**

##### **3 units**

**Pre-requisite: IS 134.6**

This is a course that familiarizes students with the fundamentals of research, specifically the methods, tools, and techniques of research with an interdisciplinary orientation. It provides students with opportunities for and practice in research, particularly aimed toward identification and formulation of a research problem.

### **HUM 152**

#### **SENIOR SEMINAR II**

##### **3 units**

**Pre-requisite: HUM 151**

This is a course that helps the student complete, defend, and submit the final form of the senior seminar paper.

### **IS 100**

#### **CLASSICAL STUDIES**

##### **3 units**

This is a course on special topics in the world of classical (Greek and Latin) learning. It can be used for courses in Greek or Latin language, or for reading the classic philosophers and writers.

### **IS 121.1**

#### **MUSIC: MUSIC APPRECIATION I**

##### **3 units**

This is an introduction to representative examples of

serious music, their creators, and the relationships between music literature and the social, cultural, and historical milieu it flourished in. Course methodology includes lectures, assigned readings, exposure to recorded and live performances, group discussions, and practical application.

### **IS 121.2**

#### **MUSIC: MUSIC APPRECIATION II**

##### **3 units**

This course is a sequel to Music Appreciation I that delves deeper into the riches of the golden eras of orchestral writing: the Classical and Romantic Periods. The symphonies and concertos of Mozart, Beethoven, Brahms, and Tchaikovsky, among others, are studied in depth.

### **IS 121.3**

#### **MUSIC: THE DEVELOPMENT OF MUSIC IN WESTERN SOCIETY**

##### **3 units**

This course is a survey of music in Western history, from ancient classical cultures to the early modern period. Focus is on developments within a historical context, taking into account the multiple influences of social, cultural, political, and other relevant forces.

### **IS 121.4**

#### **MUSIC: LITURGICAL MUSIC HISTORY AND TRADITIONS**

##### **3 units**

This course studies the development of sacred music. Topics span from ancient biblical times to popularization in the 20<sup>th</sup> and 21<sup>st</sup> centuries; touching on the Gregorian chant, the notation of church music, Protestant liturgical music, choral works of the Classical period, and Requiem masses.

**IS 121.5****MUSIC: LATIN AMERICAN MUSIC AND CULTURE****3 units**

This is a course that provides university students with a general introduction to Latin American music. Focus is on folk and popular styles and their social history and relevance.

**IS 121.6****MUSIC: AN INTRODUCTION TO OPERA****3 units**

This is a layman's first course on the opera as a genre that aims to heighten appreciation of opera as an art form through a survey of its development in the last 400 years. Lectures and film showings are undertaken.

**IS 121.6A****MUSIC: AN INTRODUCTION TO OPERA: LITERATURE, FILM, AND OPERA****3 units**

This interdisciplinary course interrogates the complementary relationship among literature, opera, and film. The course presents literature as narrative source of opera and also establishes the libretto by itself as a viable work of literature. The course examines the union of literature and opera as embodied through the medium of film and its various elements.

**IS 121.7****MUSIC: RUDIMENTS OF MUSIC****3 units**

This is a course that orients the music literature track/minor on the written language of music: Notation, Scales, Intervals, Transposition, Chords, Cadences, Non-harmonic Tones, Melodic Organization, Basic Tonal Harmony in Four Voices, and Aural Skills: Rhythmic, Melodic and Functional Dictation, Interval Identification and Sight Singing.

**IS 121.8****MUSIC: BASIC MUSIC RESEARCH AND CRITICISM****3 units****Pre-requisite: IS 121.3**

This is a course in musicology that introduces reliable and recently revised sources of music research for writing program notes. It aims to develop good taste in listening to live and recorded music, an essential ingredient to music criticism.

**IS 121.9****MUSIC: PHILIPPINE TRADITIONAL SONG FORMS OF THE 20<sup>TH</sup> CENTURY****3 units**

This is a course that examines the evolution of the Kundiman, Balitaw, Kumintang, and Danza from 1900 to the present times and establishes the elements that set them apart from the pop culture that developed after World War II.

**IS 121.10****MUSIC: ART SONG AS CONDENSED OPERA****3 units**

This is an erudite music lover's course on the fusion of music and poetry of the 19<sup>th</sup> century, a survey of standard German, French and Russian art songs that exemplify the concept of "Art Song as language."

**IS 121.11****MUSIC: SONATA, SYMPHONY, AND CONCERTO****3 units**

This is a course that surveys the development of the *sonata-allegro* form from the 18<sup>th</sup> to the 20<sup>th</sup> centuries. Topics include form analysis and critical listening of the works of Mozart, Beethoven, Brahms, Liszt, Tchaikowsky, Rachmaninov, and Prokofiev.

**IS 121.12****MUSIC: WAGNER'S RING: A 21<sup>ST</sup> CENTURY APPROACH****3 units**

This course is a philosophical, sociopolitical, and psychological approach to Wagner's 16-hour opera cycle that is based on Nordic mythology. It establishes the relevance of the work to present times in every scene of every act, revealing allusions to power play, corruption, retribution, and enlightenment.

**IS 121.13****MUSIC: FORM ANALYSIS OF 18<sup>TH</sup> CENTURY WORKS****3 units**

This is a course on basic harmonic, form, and motive analysis of small and large works of Haydn, Mozart, and Beethoven that aims for a more critical listening of works of the 18<sup>th</sup> century, a period that called for more structure and balance in music.

**IS 121.14****MUSIC: PROGRAM MUSIC OF THE 19<sup>TH</sup> CENTURY****3 units**

This is a course that surveys the attempts at the dissolution of classical forms that led to a musical genre that would be the seeds for 20<sup>th</sup> century film music.

**IS 121.15****MUSIC: THE BROADWAY MUSICAL OF THE 20<sup>TH</sup> CENTURY****3 units**

This is a course that maps out how three centuries of *opera comique* gave birth to a popular genre (music theater) developed in England and the USA.

**IS 121.16****ASIAN MUSIC****3 units**

This course is a survey of the musical output of the old and older world of East and Southeast

Asia, its socio-anthropological implications, and its influences in the music of the 20<sup>th</sup> century.

**IS 122.6**

**PRACTICAL ARTS: THE CREATIVE PROCESS**

**3 units**

This course discusses the process of creativity. While we look into the various theories of creativity, for the most part, we engage our own creative impulses and see what kind of realization they lead us to, as work with words, music, paint, voice, mime.

**IS 124.3**

**ARCHITECTURE AND PAINTING: JAPANESE ART**

**3 units**

This course is an introduction to the development of Japanese arts and its stylistic evolution, with emphasis on the importance of the interrelationship between the development of art and societal factors, such as climatic/geographic, socioeconomic, political, and religious/spiritual.

**IS 124.4**

**ARCHITECTURE AND PAINTING: CHINESE PAINTING**

**3 units**

This course is an introduction to ink and wash painting. Topics include basic skills in freehand and brush work in Chinese traditional painting of bamboo, plums, orchids, and chrysanthemums. Advanced techniques may be taken up depending on the pace of the class.

**IS 131.1**

**AREA STUDIES: TRADITIONAL CHINESE MEDICINE**

**3 units**

This is an introduction to the basic philosophy and principles of Traditional Chinese Medicine

(TCM). In the process of learning how the TCM doctor makes a diagnosis and prescribes appropriate treatment, basic skills in acupuncture, herbal medicine, and food therapy are taught.

**IS 131.4**

**AREA STUDIES: HISTORY & ENVIRONMENTAL PRACTICE IN SOUTHEAST ASIA**

**3 units**

This course attempts to construct a more environmentally-centered approach to the history of Southeast Asia by exploring the inter-relationship between society, its intellectual and material development and the physical environment.

**IS 131.5**

**AREA STUDIES: JAPANESE MUSIC**

**3 units**

This course introduces the student to the Japanese music. Its historical, aesthetic, theoretical, technical aspects, as well as, social aspect will be discussed. It also intends to introduce the students to the basic theory and methodology of ethnomusicology.

**IS 131.6**

**AREA STUDIES: HISTORY OF CHINA**

**3 units**

This course discusses major milestones and developments in Chinese history from prehistoric times to the present.

**IS 131.7**

**AREA STUDIES: CHINESE ART AND SOCIETY**

**3 units**

This course surveys the wide range and variety of the arts and forms of symbolic expressions in China and of the Chinese peoples. It examines the various art forms on several levels and from different perspectives.

**IS 131.8**

**GERMAN POPULAR CULTURE**

**3 units**

This course is a general survey of German culture from the 15<sup>th</sup> to the 21<sup>st</sup> centuries. Developments are examined through the multiple influences of history, art, literature, music, film, and food.

**IS 132.1**

**MAN AND CULTURE: POPULAR SCIENCE I**

**3 units**

This course discusses the history of science from antiquity to modern times. Focus is on the major revolutions and figures (Newton, Einstein, et al) that have shaped science into what it is today. Topics include modern technology (computers, genetic engineering) with emphasis on local science.

**IS 132.2**

**MAN AND CULTURE: POPULAR SCIENCE II**

**3 units**

This is a continuation of Popular Science I.

**IS 132.3**

**MAN AND CULTURE: AN INTRODUCTION TO ISLAM**

**3 units**

This course is a study of basic information on Islam such as the "Five Pillars", areas of convergence(s) and divergence(s) between Christianity and Islam, the roots of neo-fundamentalism and a Muslim's response and call for Islamic tolerance (Fetullah Gulen).

**IS 132.4**

**MAN AND CULTURE: THE BUSINESS OF FASHION**

This introductory course to the fashion and clothing business presents the basic concepts and principles of fashion and acquaints the student with the segments of the clothing industry, following the processes through



which a product goes.

**IS 133.1**

**IDEOLOGIES:**

**GENDER RELATIONS**

**3 units**

This course discusses the historically specific forms of relations between women and men in a given society. Topics include gender relations in society, the historical direction of gender relations and the resulting subordination of women, and the connection between gender relations and the economy.

**IS 133.2**

**IDEOLOGIES:**

**GENDER AND SOCIETY**

**3 units**

This course discusses Philippine issues and their relation to gender and the examination of the responses of men and women (but particularly of women) to these issues. The course aids students in understanding their place in society and the part gender plays in that place.

**IS 133.2A**

**IDEOLOGIES:**

**GENDER AND SOCIETY II: JAPANESE WOMEN**

**3 units**

This course is an introductory course to gender studies, providing the situation of the Japanese women as a case study. The life cycle, household management, employment problems, and other related issues are studied from the comparative viewpoint.

**IS 133.3**

**IDEOLOGIES:**

**A HISTORY OF DISCOVERY**

**3 units**

There is another side of human history beyond wars and politics – the history of discovery and development. People have struggled for millennia to improve their understanding of

the world around them. This course examines a wide range of such historical heroic efforts, from the dawn of civilization to the present.

**IS 133.4**

**IDEOLOGIES:**

**GENDER, ART AND SOCIETY**

This course is an introduction to gender as it is portrayed in art and society. It aims to lay bare gender issues in the art world in particular in the context of larger gender constructions in society.

**IS 134.6**

**METHODOLOGIES:**

**INTRODUCTION TO INTERDISCIPLINARY APPROACHES**

**3 units**

This course is a study of the significance of interdisciplinarity as a conceptual tool in analyzing issues and problems. The course equips students with some knowledge of the different methods identified with the various disciplines to prepare them for thesis writing.

**IS 134.8**

**CIVILIZATION AND**

**CULTURE IV: IDEOLOGIES: DREAMWORKS AND DREAM ANALYSIS**

**3 units**

This is a course on recording and interpreting dreams, or dream journaling, based on the theories of Stephen LaBerge and Stephen Kaplan-Williams.

**IS 134.17**

**METHODOLOGIES: CREATIVE THINKING AND PRACTICE**

**3 units**

The course trains students in innovating interdisciplinary responses to real-world concerns. Students work collaboratively on identified issues throughout the semester, using analytical, reflective, and creative thinking skills informed by scholarly

approaches in their different fields of discipline.

**IS 141.8**

**LITERATURE AND WRITING: PRODUCTION OF TEACHING MATERIALS**

**3 units**

This is a semester's course work in appreciating the poems, stories, novels, essays, and plays of Philippine literature through the audio-visual pleasure of colors, music, the camera, dance, drama, and a medley of many other creative technologies.

**IS 141.13**

**LITERATURE AND WRITING: THE BOOK**

**3 units**

This course is designed for those with an interest in pursuing in publishing, editing, book production and design. It begins with a [social] history of the book, takes up the terminology of books and book production, and discusses the whole publishing process from manuscript to marketing.

**IS 142.1**

**LITERATURE AND CULTURE: SURVEY OF CHILDREN'S LITERATURE**

**3 units**

This course is a survey of the genres in children's literature – folklore, picture books, fantasy, and realistic fiction. Topics include historical and contemporary influences and concerns in the field, including the state of Children's Literature in the Philippines.

**IS 142.2**

**LITERATURE AND CULTURE: PHILIPPINE LITERATURE IN ENGLISH**

**3 units**

This course looks at Philippine Literature written originally in English from the early 1900s to the present. Considerations

include post-colonial and post-patriarchal discourses which demand that Philippine Literature in English be studied in a way that is informed, critical, dynamic, nationalistic, and transcultural.

**IS 142.3**  
**LITERATURE AND**  
**CULTURE:**  
**ASIAN-AMERICAN**  
**LITERATURE**

**3 units**

This is an interdisciplinary course that deals with the historical experiences and literary expressions of Asian groups in the US, notably Chinese, Japanese, and Filipino. Emphasis is on Filipino-American history, and the works of Carlos Bulosan and present-day Filipino-Americans.

**IS 142.4**  
**LITERATURE AND CULTURE:**  
**LATIN-AMERICAN**  
**LITERATURE**

**3 units**

This course is a study of the history and development of literary and critical texts in Latin America, tracing the social and aesthetic concerns of Latin American countries which shape their literature in relation to others.

**IS 142.5**  
**LITERATURE AND CULTURE:**  
**READING THE ROMANCE**

**3 units**

This course studies the elements of romance and an exploration of the ways it has determined/conditioned other texts, from medieval romances to the romantic novel, in Western and Philippine literature. Texts include Arthurian stories, *Ibong Adarna*, the Mills and Boon series; films, television, and *komiks*.

**IS 142.6**  
**LITERATURE AND CULTURE:**  
**REDEFINING THE**  
**NOVEL AS A**  
**LITERARY GENRE**

**3 units**

This course consists of: a lecture series on "Theorizing the Novel as a Literary Genre"; a series of workshop sessions to discuss specific "novels" citing the ways by which these works challenge the conventional definitions of the genre; and major writing activity in which students prepare a ten-page paper analyzing a "new novel" and presenting this analysis before the class.

**IS 142.7**  
**LITERATURE AND CULTURE:**  
**JAPANESE LITERATURE**

**3 units**

This course will adopt the synchronic approach to the study of Japanese literature through the analysis of the patterns of its historical development.

**IS 142.8**  
**LITERATURE AND CULTURE:**  
**BRITISH LITERATURE**

**3 units**

This course is a study of the major works of selected authors in British Literature. At the end of the term, students present a seminar paper on British author of their choice, upon consultation with the instructor.

**IS 142.9**  
**LITERATURE AND CULTURE:**  
**ROMANTIC LITERATURE**

**3 units**

This course is an intensive study of representative works and authors during the age of Romanticism. Works by Whitman, Dickinson, Melville and Keats will be discussed and explored.

**IS 142.10**  
**LITERATURE AND CULTURE:**  
**DRAMATIC REPERTOIRE:**  
**AMERICAN DRAMA**

**3 units**

This course is an overview of the transformation of American drama from its beginnings in colonial times to the present, making sense of this historical sense and its diversity in terms of a variety of theoretical perspectives on the theatre.

**IS 142.11**  
**LITERATURE AND CULTURE:**  
**SCIENCE FICTION**

**3 units**

This course focuses on its characteristics, its historical development, and its various thematic concerns. This course also problematizes the apparent absence of this genre within Philippine literature by contrasting it with the development of what is now called "future fiction" in the country.

**IS 142.12**  
**LITERATURE AND**  
**CULTURE: LITERATURE OF**  
**FOOD AND TRAVEL**

**3 units**

Food and travel are of the most common subjects – and metaphors – in all of literature. Through discussion and analysis of assigned readings, students explore the significance of food and travel as emotion, escape, adventure and discovery. Issues regarding food/travel and gender, food/travel and class and food/travel and colonialism are also discussed.

**IS 142.13**  
**LITERATURE AND CULTURE:**  
**MEDIEVAL THEMES IN**  
**MODERN LITERATURE**

**3 units**

This course analyzes medieval themes (heroes, quests, exile) in modern literature, with emphasis

on how Old English and medieval texts are brought into play in such modern narratives as the *Lord of the Rings* trilogy and T.H. White's *The One and Future King* among others.

**IS 142.16**

**LITERATURE AND CULTURE:  
PHILIPPINE LITERATURE IN  
SPANISH**

**3 units**

This course studies Philippine writings in Spanish and its authors during the mid-19<sup>th</sup> century to the early 20<sup>th</sup> century. It introduces the cultural milieu of Philippine society during this period through Montero y Vidal's *Cuentos Filipinos*, Paterno's *Ninay*, and Gurrea's *Cuentos de Juana*.

**IS 142.17**

**LITERATURE AND CULTURE:  
TRANSMEDIAL  
SHAKESPEARE**

**3 units**

This course provides an overview of the modes of existence of Shakespeare as both textual artifact and cultural icon. It surveys a selection of Shakespearean incarnations in literary and theatrical traditions, and includes unconventional Shakespearean media in music, the visual arts, popular culture, advertising, film, and other digital media.

**IS 143.1**

**LITERATURE AND  
PHILOSOPHY: THEOLOGICAL  
THEMES IN LITERATURE**

**3 units**

This course studies great theological epics in literature which provide a profound insight into what it means to be a Christian and a human being in the contemporary world. Readings include Dante's *Inferno*, Milton's *Paradise Lost* and *Paradise Regained*, and Goethe's *Faust I and II*.

**IS 143.2**

**LITERATURE AND  
PHILOSOPHY:  
GERARD MANLEY HOPKINS**

**3 units**

This course is an in-depth study of the poetry of Gerard Manley Hopkins. Class sessions are devoted to a close reading and detailed analysis of his poems, with particular attention paid to "understanding" the poems, their poetic technique, their imagery, and their themes.

**IS 143.3**

**LITERATURE AND  
PHILOSOPHY:  
INTRODUCTION TO  
AESTHETICS**

**3 units**

This course is an introduction to the elements and principles of the aesthetic experience in the visual arts, performing arts, and literature, as well as an examination of the varieties of aesthetic norms and standards.

**IS 143.4**

**LITERATURE AND  
PHILOSOPHY:  
INTERDISCIPLINARY  
APPROACHES TO THE ARTS**

**3 units**

This course is an introduction to the relationships that exist among the arts and such disciplines as philosophy, sociology, history, economics, and psychology, among others, as well as the precise ways in which art studies have been enriched by this interaction.

**IS 143.5**

**LITERATURE AND  
PHILOSOPHY: THE  
PROBLEM OF GOD IN  
EXISTENTIALIST  
LITERATURE**

**3 units**

This course is a seminar that reads and discusses selected works concerned with the problem of God in 19<sup>th</sup> and 20<sup>th</sup> century

existentialist writers. In particular, Kierkegaard, Dostoevski, Nietzsche, Sarte and Camus will be considered.

**IS 143.6B**

**LITERATURE AND  
PHILOSOPHY:  
THE METHAPHYSICS AND  
ETHICS OF ELFLAND II**

**3 units**

This course is a reflection on some of the philosophical issues raised in the principal works of the Inklings: Charles Williams, C.S. Lewis and J.R.R. Tolkien. The notions of secondary creation, romantic love and *Sehnsucht* will be discussed as hypothetical responses to the questions, *What can I know? What must I do? What can I hope for?*

**IS 145**

**GREAT BOOKS I  
(ANCIENT PERIOD)**

**3 units**

This is a course on the Epics (Homer, Virgil), the Scriptures (the Bible, the Koran), the Greek dramas (Sophocles, Aeschylus), the Philosophers (Aristotle, Plato), and other enduring masterpieces of the ancient world. The course discusses and explores the ideas embodied in these texts.

**IS 146**

**GREAT BOOKS II  
(MIDDLE PERIOD)**

**3 units**

This is the second part of the Great Books series provides insights into the human reality through the reading of books that have endured the test of time. Selections include the works of Dante, Cervantes, Shakespeare, Goethe, Augustine, and Machiavelli, among others.

**IS 147**

**GREAT BOOKS III  
(MODERN PERIOD)**

**3 units**

This course explores traditional concerns of modernity (alienation, fragmentation) and debates on race, gender, class, and the existence of the canon of “great books”: selections from 20<sup>th</sup> century world literatures.

**IS 148  
GREAT BOOKS IV  
(PHILIPPINES)  
3 units**

This is a survey course which examines a number of key texts in several genres, written by Filipinos, which have come out in the last two centuries. The general perspective is historical as the course studies the texts against specific socio-political contexts.

**IS 151  
SENIOR SEMINAR I  
3 units**

This is a course on the fundamentals of research, specifically the methods, tools, and techniques of research with an interdisciplinary orientation. Each student is required to submit a proposal and begin the integration paper under the guidance of a mentor.

**IS 152  
SENIOR SEMINAR II  
3 units**

**Pre-requisite: IS 151**  
This is a course that helps the student complete, defend, and submit the final form of the senior seminar paper.

**IS 161.1  
SPECIAL TOPICS IN  
PHILIPPINE STUDIES:  
REPRESENTATION OF  
OTHERNESS IN FILM  
AND LITERATURE  
3 units**

This course studies the ways in which the Other has been depicted in two major cultural types – film and literature – and the factors leading to such representations. A number of

illustrative films and literary texts are used to illustrate the issues tackled in the course.

**IS 161.2  
SPECIAL TOPICS IN  
PHILIPPINE STUDIES:  
INTERPERSONAL  
COMMUNICATION  
3 units**

This course is an introduction to the psychological principles behind the means and dimensions of human communication. The course includes lectures, guest speakers, and exercises in group dynamics.

**IS 161.3  
SPECIAL TOPICS IN  
PHILIPPINE STUDIES:  
IMAG(IN)ING HISTORY-  
INVENTION,  
INTERPRETATION, AND  
NARRATION  
3 units**

This is a seminar course on the representation of history as image(s). Drawing on history, art history, and cultural studies and referring to critical essays on colonialism, nationalism, and modernity to establish a theoretical framework, the course examines how both marginalized and significant episodes in Philippine history-socio-economic, political, cultural, and racial – have been imagined and / or imaged in the last two centuries.

**IS 161.4  
SPECIAL TOPICS IN  
PHILIPPINE STUDIES:  
GENERIC STUDIES:  
FILIPINO NOVEL  
3 units**

This course is a study of the history and development of the novel in Filipino.

**IS 161.5  
SPECIAL TOPICS IN  
PHILIPPINE STUDIES:  
THE PSYCHOLOGY OF  
SMALL GROUPS AND I  
INTERPERSONAL  
COMMUNICATION (AN  
EXPERIENTIAL  
APPROACH)  
Pre-requisite: PSY 101  
3 units**

The course introduces students to the principles of psychology behind various dimensions of interpersonal communication in small groups using a process-oriented approach.

**IS 161.6  
SPECIAL TOPICS IN  
PHILIPPINE STUDIES:  
PHILIPPINE MUSIC AND  
CULTURE  
3 units**

The course is a general survey of Philippine music from the indigenous tribes to the Western-influenced lowland Christian communities. It also explores the Philippine Music Culture of the 21st century through the OPM.

**IS 161.7  
SPECIAL TOPICS IN  
PHILIPPINE STUDIES:  
PHILIPPINE LITERATURE  
AND FILM  
3 units**

This is a seminar course on the ways cinema has interpreted various Philippine literary texts.

**IS 161.8  
SPECIAL TOPICS IN  
PHILIPPINE STUDIES: YOUTH  
LEADERSHIP FOR ENGAGED  
CITIZENSHIP  
3 units**

This course provides students an opportunity to discover their leadership capacity through an understanding of the core leadership pillars discussed in Chris Lowney's *Heroic Leadership*. The key success elements – Self-Awareness, Ingenuity, Love and

Heroism – are appropriated to the personal experiences of the students.

**IS 162.1  
MEDIA STUDIES:  
INTRODUCTION TO  
POPULAR CULTURE**

**3 units**

This course presents different approaches to reading popular texts in contemporary society. It discusses the textual and contextual aspects of the cultural apparatus in an attempt to present a theory of cultural studies and a practical framework for the critique of popular texts.

**IS 162.2  
MEDIA STUDIES:  
FILM AND DESIGN**

**3 units**

This is a course on vintage and contemporary films of outstanding production design. Focus is on design concepts and historical sources; and the identification and study of stylization and abstraction in design.

**IS 162.4  
INTERDISCIPLINARY  
APPROACHES TO FILM  
STUDIES:  
FILIPINO FILM AND SOCIETY**

**Pre-requisite: FIL 14**

**3 units**

The course examines the complex relationship between the Filipino feature film and Philippine society -- how historical, social, economic, cultural and political forces shape film and how film makes an impact on society. It also looks into the conduct and context of film production and exhibition.

**IS 162.5  
MEDIA STUDIES: FILM AND  
THE OTHER ARTS**

**3 units**

This course investigates the multi-dimensional relations between film and the other arts (aside from literature), namely, architecture and the visual arts, the performing arts and the media arts.

**IS 163.1  
CONTEMPORARY ISSUES:  
NON-VIOLENCE**

**3 units**

This course is an interdisciplinary and experiential approach to the study of nonviolence. The course considers actual violence in our present situation, the theoretical frameworks for nonviolence (theological, philosophical); and the historical experiences with non-violence (India, South Africa, United States).

**IS 163.2  
CONTEMPORARY ISSUES:  
PSYCHOLOGY AND  
PERSONAL GROWTH –  
A CRITICAL REVIEW OF  
SELF-HELP LITERATURE  
AND METHODS**

**3 units**

This is a survey course on psychology and personal growth, focusing on the Self-Help concept and industry. It includes the development of the humanistic school of psychology and the self-help genre, and an introduction to self-help literature and methods, which include literature reviews, methodological criticism, reflection papers, debates and discussion groups. The course culminates in a creative self-help project.

**IS 163.3  
CONTEMPORARY ISSUES:  
CULTURAL STUDIES OF  
TECHNOLOGY  
(HYPERMEDIA, THE  
WORLD WIDE WEB, AND  
THE CONTEMPORARY  
CRITICAL THEORY AND  
TECHNOLOGY)**

**3 units**

This is an introductory course on the cultural studies of technology from a global perspective. This course explores the rhizomatics of technology in history of the present and highlight the multi-linear and non-narrative form of the World Wide Web and other hypermedia technologies.

**IS 163.4  
CONTEMPORARY ISSUES:  
DYNAMICS OF GRIEF AND  
LOSS IN A FAMILY  
CONTEXT**

**3 units**

This course examines the grief processes that take place within families as they experience loss. This course will explore a variety of factors that facilitate and/or impede the ability to function after loss. The course will also take a look at grief and loss observed in the various regions and provinces in the Philippines.

**IS 163.5  
CONTEMPORARY ISSUES:  
POSITIVE PSYCHOLOGY IN  
THE FIELD**

**Pre-requisite: PSY 101**

**3 units**

This course is a study of the positive aspects of human experience, from the origins of the humanistic movement in psychology, to topics such as well-being, optimism, happiness, self-determination, resilience and hope. Methodology consists of data-gathering and conducting field experiments that will be subject matter for group discussions, personal reflection, and creative projects.

**IS 163.6  
CONTEMPORARY ISSUES:  
HUMAN RESOURCE  
DEVELOPMENT**

**Pre-requisite: PSY 101**

**3 units**

This is an introductory course on the essential skills of human resource development and their



application in the workplace, focusing on the importance of workplace learning and its contribution to the success of an organization. A teamwork approach is used for students' case presentations and training projects.

**IS 163.7**  
**CONTEMPORARY ISSUES:**  
**SPORTS THERAPY:**  
**PREVENTION,**  
**TREATMENT, AND**  
**REHABILITATION OF**  
**ATHLETIC INJURIES**  
**3 units**

This is an introductory course for students who may wish to go into the field of coaching and/or athletic training. The course focuses on injury prevention and immediate care for the most common sports injuries. Basic foundations are also provided for more substantive areas of rehabilitation.

**IS 163.8**  
**CONTEMPORARY ISSUES:**  
**SCIENCE AND RELIGION**  
**3 units**  
**Pre-requisites: For non-science majors (SCI 10, TH 121, PH 101). For science majors (20 units of natural sciences/mathematics, TH 121, PH 101)**

This course addresses the impact of science and technology on the practice of our faith in the 21<sup>st</sup> Century. Key topics may include: *the Big Bang and God's Existence, Time, Human Life and Personhood, Environment, and Sustainable Development.*

**IS 163.9**  
**CONTEMPORARY ISSUES:**  
**FINAL DESTINY:**  
**THOUGHTS ON HEAVEN**  
**AND HELL**  
**3 units**  
*This course is open to juniors and seniors*  
 This course investigates certain key themes in Christian

Eschatology – the study of the final things. Concepts such as heaven, hell, and purgatory are to be discussed from both the perspective of the individual human, as well as humanity taken collectively.

**IS 163.10**  
**CONTEMPORARY ISSUES:**  
**BIBLE AS LITERATURE**  
**3 units**  
 Taking the Bible as literature, this course explores some of its enduring imagery: Creation, the Ideal State, the ideal ruler (the shepherd / king), etc, as well as associated theologies: holiness, the reign of God, etc. This course also explores some of the more "secular" texts. Readings are situated in their historical contexts to bring their words and images alive.

**IS 163.11**  
**CONTEMPORARY ISSUES:**  
**SEMINAR IN**  
**ENVIRONMENTAL POLICY**  
**AND LAW**  
**3 units**  
**Pre-requisite: Any NatSci course, ES 110 and 111 or BI 162, or Consent of Faculty**  
 This course gives an overview of the process of environmental decision-making in the Philippines, focusing on the interplay of the natural and social sciences with law in establishing norms and resolving environmental disputes. Students are introduced to a spectrum of approaches to environmental issues.

**IS 163.12**  
**CONTEMPORARY ISSUES:**  
**SAINTS-LIKE AND UNLIKE**  
**OURSELVES AND SOCIETY**  
**3 units**  
 This course is a study of the lives of saints in different historical periods, with special emphasis on the Middle Ages. The course focuses on how a historical

understanding of holiness is shaped by political status, gender roles, and other social factors, and how it can also subvert popular notions of the self and society.

**IS 163.13**  
**CONTEMPORARY ISSUES:**  
**NARRATION AND**  
**MEANINGS**  
**3 units**  
 This is a course on re-tellings, stories that echo previous tales but are told by a different author using a different perspective. These new twists on old tales provide a counterpoint to our understanding of the traditional texts and challenge the way we interpret both the old and the new.

**IS 163.14**  
**CONTEMPORARY ISSUES:**  
**FAMILIES AND THE**  
**FUTURE—**  
**UNDERSTANDING**  
**FAMILY ISSUES AND**  
**FAMILY DYNAMICS IN**  
**THE PHILIPPINE CONTEXT**  
**Pre-requisite: PSY 101**  
**3 units**  
 This course aims to give students a deeper understanding and appreciation of the family and current issues affecting it such as marriage, parenting, separation, the elderly, children, poverty and changing work patterns. Focus will be given to families in the Philippine context in general, and the experiences of the students and their own families in particular.

**IS 163.15**  
**CONTEMPORARY ISSUES:**  
**MUSLIM-CHRISTIAN**  
**DIALOGUE and**  
**COOPERATION for NATION-**  
**BUILDING**  
**3 units**  
 The course provides a framework of dialogue within which the ideals and values shared by Christianity and Islam can be

applied to nation-building projects.

**IS 164.1**

**SPORTS DEVELOPMENT:  
INTRODUCTION TO  
SPORTS BUSINESS**

**3 units**

This introductory course is designed primarily for students who want to combine their passion for sports with business knowledge. It provides students with the opportunity to apply marketing principles to the area of sports business.

2/F Horacio de la Costa Hall  
(632) 426-6001 loc. 5350/5351  
modlang@admu.edu.ph

# MODERN LANGUAGES

**Maria Luisa P. Young**  
*Chair*

**Faculty**  
***Associate Professor***  
Evelyn C. Soriano

***Assistant Professor***  
Heide V. Aquino

***Instructors***  
Carmina Ma. Veronica L. Bautista  
Sarah Jane D. Lipura  
Victoria Marie B. Valdez  
Christa R. Velasco  
Joseph Martin M. Yap  
Maria Luisa P. Young

***Assistant Instructor***  
Jackie Lou L. Jose

***Lecturers***  
Patrick Michael L. Capili  
Doris T. Faylona  
Herman Fritz Pangemanan  
Fransisco Jr. R. Villar  
Robert John C. Yu

***Visiting Lecturer***  
Kyungmin Bae

***Guest Lecturer***  
Josue R. Hernandez

The Department of Modern Languages provides the students with the necessary basic skills for oral and written communication in French, Spanish, Italian, German, Portuguese, Russian, Korean and Bahasa Indonesia, and acquaints them with the history, art, and culture in which those languages are used. Its objective is to provide students with the basic listening, speaking, reading, and writing skills to enable them to function in practical situations. It envisions to be a leading center in the Philippines for foreign language learning. Its mission is to equip students with communication skills for them to interact and excel in a social, business, or professional environment, and to enhance both their rootedness in Philippine culture and their knowledge of foreign cultures.



## MINOR IN FRENCH/ GERMAN/ SPANISH

The Department of Modern Languages offers a Minor in French, German, and Spanish. The programs are open to any Loyola Schools undergraduate student.

Students should obtain a grade of at least C+ in all the subjects for the Minor. However, the students should obtain a final average grade of B for all the minor subjects. Only three (3) units taken from internationally-linked universities of Ateneo (JTA or students with background) can be credited subject to validation by the Department of Modern Languages.

### For a Minor in French:

Students are required the following courses:

FLC 1FR	Basic French 1 Language and Culture	3 units
FLC 2FR	Basic French 2 Language and Culture	3 units
FLC 3FR	Intermediate French	3 units
FLC 4FR	Advanced French	3 units

Students are required any one course of the following:

FLC 5FR	Language for Specific Purposes: French	3 units
FLC 7FR	Conversational French	3 units
FLC 8FR*	Summer Study Tour to France	3 units

\* Students who will be joining the Summer Study Tour will get 6 units credit:  
3 units for language (FLC 1, 2, 3, 4, 5 or 7FR) and 3 units for culture (FLC 6FR)

### For a Minor in German, the choices are:

Students are required the following courses:

FLC 1GR	Basic German 1 Language and Culture	3 units
FLC 2GR	Basic German 2 Language and Culture	3 units
FLC 3GR	Intermediate German	3 units
FLC 4GR	Advanced German	3 units

Students are required any one course of the following:

FLC 5GR	Language for Specific Purposes: German	3 units
FLC 7GR	Conversational German	3 units
FLC 8GR	Summer Study Tour to Germany/Austria	3 units

\* Students who will be joining the Summer Study Tour will get 6 units credit:  
3 units for language (FLC 1, 2, 3, 4, 5 or 7GR) and 3 units for culture (FLC 6GR)

### For a Minor in Spanish, the choices are:

Students are required the following courses:

FLC 1SP	Basic Spanish 1 Language and Culture	3 units
FLC 2SP	Basic Spanish 2 Language and Culture	3 units
FLC 3SP	Intermediate Spanish	3 units
FLC 4SP	Advanced Spanish	3 units

Students are required any one course of the following:

FLC 5SP	Language for Specific Purposes: Spanish	3 units
FLC 7SP	Conversational Spanish	3 units
FLC 8SP	Summer Study Tour to Spain	3 units

\* Students who will be joining the Summer Study Tour will get 6 units credit:  
3 units for language (FLC 1, 2, 3, 4, 5 or 7SP) and 3 units for culture (FLC 6SP)

## COURSE OFFERINGS

**FLC 1BH  
BASIC BAHASA  
INDONESIAN 1  
LANGUAGE AND CULTURE  
3 units**

This course teaches students communicative competence in Bahasa Indonesia in practical situations and introduces them to Indonesian life, art, and culture.

**FLC 2BH  
BASIC BAHASA  
INDONESIAN 2  
LANGUAGE AND CULTURE  
3 units**

**Pre-requisite: FLC 1BH**  
This is a course on both conversational and written Bahasa Indonesia for students who have taken and studied Bahasa Indonesia 1. Each lesson consists of seven parts: a review, a dialogue, cultural notes, pronunciation, grammatical notes, vocabulary list, and exercises.

**FLC 1FR  
BASIC FRENCH 1  
LANGUAGE AND CULTURE  
3 units**

This course is an introduction to the different aspects of French language and culture that provides communication skills in practical situations.

**FLC 2FR  
BASIC FRENCH 2  
LANGUAGE AND CULTURE  
3 units**

**Pre-requisite: FLC 1FR**  
This course reviews the communicative skills learned in French 1. Written and oral skills are developed through various class activities done in groups, pairs, or sometimes individually. Cultural knowledge is broadened through a discussion of the topics of the lessons and video films.

**FLC 3FR  
INTERMEDIATE FRENCH  
3 units**

**Pre-requisite: FLC 2FR**  
This course begins with a review of basic tenses learned in French 2 and continues with the imperative, the subjunctive, and more advanced grammatical structures. The course increases students' understanding of French culture and introduces them to French contemporary issues and current events.

**FLC 4FR  
ADVANCED FRENCH  
3 units**

**Pre-requisite: FLC 3FR**  
This course begins with a review of the basic tenses and continues with advanced grammatical structure while introducing France in the 20<sup>th</sup> and 21<sup>st</sup> centuries. Articles from books,

magazines, newspapers, and the internet are used.

**FLC 5FR  
LANGUAGE FOR SPECIFIC  
PURPOSES: FRENCH  
3 units**

**Pre-requisite: FLC 3FR**  
This course is an exploration of the French business world and language that provides students with adequate terms, guidelines, and skills that enables them to start communicating and interacting in a French business environment.

**FLC 6FR  
FRENCH POPULAR CULTURE  
3 units**

This is a course taught in English that gives a general survey of French culture. Developments are examined through the multiple influences of history, art, literature, music, film, and food.

**FLC 7FR  
CONVERSATIONAL FRENCH  
3 units**

**Pre-requisite: FLC 3FR**  
This course refines the four skills learned in Foreign Language and Culture (FLC) courses in French. More emphasis is given to speaking accuracy and fluency. With a variety of topics to argue and discuss, students become spontaneous and confident in expressing their ideas and opinions.

**FLC 8FR**  
**SUMMER STUDY TOUR TO FRANCE**

**6 units**

This three- to four-week study tour immerses students in the language and culture of France. Students enroll in a language school at the same time that they live with French families. As a complementary module, cultural activities are given in the afternoons and weekends.

**FLC 1GR**  
**BASIC GERMAN 1 LANGUAGE AND CULTURE**

**3 units**

This course teaches students communicative competence in German in practical situations and introduces them to German life, art, and culture.

**FLC 2GR**  
**BASIC GERMAN 2 LANGUAGE AND CULTURE**  
**3 units**

**Pre-requisite: FLC 1GR**

This course reviews the communicative skills learned in German 1. Proficiency is developed through the introduction of some social issues. Students develop their skills in narrating, summarizing, reporting, agreeing and disagreeing, giving opinions, and giving commands.

**FLC 3GR**  
**INTERMEDIATE GERMAN**  
**3 units**

**Pre-requisite: FLC 2GR**

This course refines the language skills learned in German 1 and 2 and continues with the uses of the subjunctive and other more advanced grammatical structures. The course increases students' understanding of German culture and introduces them to contemporary issues and current events.

**FLC 4GR**  
**ADVANCED GERMAN**  
**3 units**

**Pre-requisite: FLC 3GR**

This course begins with a review of the basic tenses and continues with advanced grammatical structure while introducing Germany in the 20<sup>th</sup> and 21<sup>st</sup> centuries. Articles from books, magazines, newspapers, and the internet are used.

**FLC 5GR**  
**LANGUAGE FOR SPECIFIC PURPOSES: GERMAN**  
**3 units**

**Pre-requisite: FLC 3GR**

This course is an exploration of the German business world and language that provides students with adequate terms, guidelines, and skills that enable them to start communicating and interacting in a German business environment.

**FLC 6GR**  
**GERMAN POPULAR CULTURE**  
**3 units**

This is a course taught in English that gives a general survey of German culture. Developments are examined through the multiple influences of history, art, literature, music, film, and food.

**FLC 7GR**  
**CONVERSATIONAL GERMAN**  
**3 units**

**Pre-requisite: FLC 3GR**

This course refines the four skills learned in Foreign Language and Culture (FLC) courses in German. More emphasis is given to speaking accuracy and fluency. With a variety of topics to argue and discuss, students become spontaneous and confident in expressing their ideas and opinions.

**FLC 8GR**  
**SUMMER STUDY TOUR TO GERMANY/AUSTRIA**  
**6 units**

This three- to four-week study tour immerses students in the language and culture of Germany/Austria. Students enroll in a language school at the same time that they live with German/Austrian families. As a complementary module, cultural activities are given in the afternoons and weekends.

**FLC 1ITAL**  
**BASIC ITALIAN 1 LANGUAGE AND CULTURE**  
**3 units**

This course teaches students communicative competence in Italian in practical situations and introduces them to Italian life, art, and culture.

**FLC 2ITAL**  
**BASIC ITALIAN 2 LANGUAGE AND CULTURE**  
**3 units**

**Pre-requisite: FLC 1ITAL**

This course reviews the communicative skills learned in Italian 1. Proficiency is developed through the introduction of Italy and Italian speaking groups outside Italy. Students develop their skills in narrating, summarizing, reporting, agreeing and disagreeing, giving opinions, and giving commands.

**FLC 6ITAL**  
**ITALIAN POPULAR CULTURE**  
**3 units**

This is a course taught in English that gives a general survey of Italian culture. Developments are examined through the multiple influences of history, art, literature, music, film, and food.

**FLC 8ITAL**  
**SUMMER STUDY TOUR TO ITALY**  
**6 units**

This three- to four-week study tour immerses students in the language and culture of Italy. Students enroll in a language school at the same time that they

live with Italian families. As a complementary module, cultural activities are given in the afternoons and weekends.

**FLC 1KOR**  
**BASIC KOREAN 1**  
**LANGUAGE AND CULTURE**  
**3 units**

This course teaches students communicative competence in Korean in practical situations and introduces them to Korean life and culture.

**FLC 2KOR**  
**BASIC KOREAN 2**  
**LANGUAGE AND CULTURE**  
**3 units**

This course reviews the communicative skills and grammar learned in Korean 1 and continues to advanced basic grammar and functional use of the language.

**FLC 3KOR**  
**KOREAN LANGUAGE AND CULTURE 3**  
**3 units**

**Pre-requisites:** FLC 1KOR, FLC 2KOR

Equivalent to Lower intermediate Korean, this course refines the skills acquired in FLC Kor 1 and 2. The course focuses on vocabulary expansion and refinement of speech and written compositions through the study of more complex grammar structures. The course also introduces the students to Korean proverbs and folklores.

**FLC 6KOR**  
**KOREAN POPULAR CULTURE**  
**3 units**

This course taught in English gives a general survey of Korean culture. Developments are examined through the multiple influences of history, art, literature, music, film and food.

**FLC 8KOR**  
**SUMMER STUDY TOUR TO KOREA**  
**6 units**

This three- to four-week tour of Korea is designed to immerse and expose students to the language and culture of Korea. While in Korea, students enroll in a formal Korean class, participate in cultural activities and live with Korean host families.

**FLC 1POR**  
**BASIC PORTUGUESE 1**  
**LANGUAGE AND CULTURE**  
**3 units**

This course teaches students communicative competence in Portuguese in practical situations and introduces them to Portuguese life, art and culture.

**FLC 6POR**  
**PORTUGUESE POPULAR CULTURE**  
**3 units**

This course taught in English gives a general survey of Portuguese culture. Developments are examined through the multiple influences of history, art, literature, music, film and food.

**FLC 1RUS**  
**BASIC RUSSIAN 1 LANGUAGE AND CULTURE**  
**3 units**

This course teaches students communicative competence in Russian in practical situations and introduces them to Russian life, art and culture.

**FLC 2RUS**  
**BASIC RUSSIAN 2 LANGUAGE AND CULTURE**  
**Pre-requisite:** FLC 1SP

This language course continues to strengthen, refine and develop the basic language skills that students have acquired in Russian1. It increases the students' vocabulary fund and completes their orientation to the Russian case

system. It introduces new grammar structures for expressing more complex communicative intentions.

**FLC 1SP**  
**BASIC SPANISH 1 LANGUAGE AND CULTURE**  
**3 units**

This is a course that teaches students communicative competence in Spanish in practical situations and introduces them to Hispanic life, art, and culture.

**FLC 2SP**  
**BASIC SPANISH 2 LANGUAGE AND CULTURE**  
**3 units**

**Pre-requisite:** FLC 1SP

This course is a review of communicative skills learned in Spanish 1. Proficiency is developed through discussions on Latin-America. Students develop their skills in narrating, summarizing, reporting, agreeing and disagreeing, giving opinions, and giving commands.

**FLC 3SP**  
**INTERMEDIATE SPANISH**  
**3 units**

**Pre-requisite:** FLC 2SP

This course refines the language skills learned in Spanish 1 and 2 and continues with the uses of the subjunctive and other more advanced grammatical structures. The course increases students' understanding of Spanish culture and introduces them to contemporary issues and current events.

**FLC 4SP**  
**ADVANCED SPANISH**  
**3 units**

**Pre-requisite:** FLC 3SP

This course begins with a review of the basic tenses and continues with advanced grammatical structure while learning more about the Hispanic culture of Spain, Latin America, and the

Philippines. Articles from books, magazines, newspapers, and the internet are used.

**FLC 5SP**  
**LANGUAGE FOR SPECIFIC**  
**PURPOSES: SPANISH**

**3 units**

**Pre-requisite: FLC 3SP**

This course is an exploration of the Spanish business world and language that provides students with adequate terms, guidelines, and skills that enables them to start communicating and interacting in a Spanish business environment.

**FLC 6SP**  
**SPANISH POPULAR CULTURE**

**3 units**

This is a course taught in English that gives an overview of Spanish culture. Developments are examined through the multiple influences of history, art, literature, music, film, and food.

**FLC 7SP**  
**CONVERSATIONAL SPANISH**

**3 units**

**Pre-requisite: FLC 3SP**

This course refines the four skills learned in Foreign Language and Culture (FLC) courses in Spanish. More emphasis is given to speaking accuracy and fluency. With a variety of topics to argue and discuss, students become spontaneous and confident in expressing their ideas and opinions.

**FLC 8SP**  
**SUMMER STUDY TOUR TO**  
**SPAIN**

**6 units**

This three- to four-week study tour immerses students in the language and culture of Spain. Students enroll in a language school at the same time that they live with Spanish families. As a complementary module, cultural activities are given in the afternoons and weekends.

**FLC 9SP**  
**HISTORICAL TRANSLATION**  
**IN SPANISH**

**3 units**

**Pre-requisites: FLC 1SP, FLC 2SP, FLC 3SP, FLC 4SP**

The course, taught in English and Spanish, is an introduction to historical translation. It reviews Spanish grammar and gives an overview of the evolution of the Spanish language. It teaches the techniques and strategies in translating Philippine historical documents from the 17th, 18th and 19th centuries from Spanish to English.

2/F Horacio de la Costa Hall  
(632) 426-6001 loc. 5360/5361/5362  
fax: (632) 426-5665  
philosophy.soh@ateneo.edu  
<http://www.admu.edu/depts/philo>

# PHILOSOPHY

**Agustin Martin G. Rodriguez**  
*Chair*

**Faculty**  
***Professor Emeriti***  
Roque J. Ferriols, S.J.

***Professors***  
Antonette Palma-Angeles  
Manuel B. Dy, Jr.  
Rainier A. Ibana  
Agustin Martin G. Rodriguez  
Tomas G. Rosario, Jr.

***Associate Professors***  
Remmon E. Barbaza • Luis S. David, S.J.  
Leovino Ma. Garcia • Ranilo B. Hermida  
Nemesio S. Que, S.J.

***Assistant Professors***  
Oscar G. Bulaong, Jr. • Mark Joseph T. Calano •  
Eduardo Jose E. Calasanz • Marcos Louis Catalan, S.J.  
• Jacklyn A. Cleofas • Geoffrey A. Guevara • Albert  
M. Lagliva • Michael Ner E. Mariano • Jovino G.  
Miroy • Rowena Anthea A. Palacios • Marc Oliver G.  
Pasco • Jesus Deogracias Z. Principe • Jean Emily P.  
Tan • Roy Allan B. Tolentino

***Instructors***  
Pamela Joy M. Capistrano • Preciosa Regina A. de  
Joya • Jacqueline Marie D. Jacinto • Maria Lovelyn C.  
Paclibar • Anton Luis C. Sevilla • Andrew K.L. Soh •  
Wilhelm Patrick Joseph S. Strebel

***Lecturers***  
Michael Stephen G. Aurelio • Mark Lawrence B. Cruz •  
Georges De Schrijver, S.J. • Zosimo Lee • Kenneth  
Masong • Marie Chris B. Ramoya • Herbert  
Schneider, S.J. • Venusto F. Suarez • Dennis O.  
Temporal

Rooted in the tradition of excellence and service of the Ateneo de Manila University, the Department of Philosophy, as a community of teachers, scholars, and students, commits itself to be a center of creative philosophical reflection, research, and formation, in the Philippines and the Asian region.

This is fulfilled through four broad areas of expertise:

- Metaphysics, Ancient and Medieval Philosophy
- Epistemology, Modern and Contemporary Philosophy
- Ethics, Social and Political Philosophy
- Culture, Art, Science and Religion.

The Department of Philosophy continues to pioneer the teaching, writing and publishing of texts in Filipino.

## BACHELOR OF ARTS, MAJOR IN PHILOSOPHY

The philosophy program follows a curriculum that is strong in building these skills: fidelity to the depth and complexity of the truth, rigorous reflection, and insightful discussion. It allows the students to hone these skills in the academic engagement of philosophers and systems of philosophy; or philosophical studies in the realm of politics and law; applied ethics, society and culture; or culture, art, and literature.

### FIRST YEAR

<u>First Semester</u>		<u>Units</u>	<u>Second Semester</u>		<u>Units</u>
EN 11	Communication in English I	3	EN 12	Communication in English II	3
LIT 13	Introduction to Fiction	3	LIT 14	Introduction to Poetry and Drama	3
MA 11	Modern Mathematics I	3	MA 12	Modern Mathematics II	3
FIL 11	Sining ng Pakikipagtalastasan sa Filipino I	3	FIL 12	Sining ng Pakikipagtalastasan sa Filipino II	3
NATSCI 1A	Natural Science, Lecture	3	NATSCI 2A	Natural Science, Lecture	3
NATSCI 1B	Natural Science, Laboratory	1	NATSCI 2B	Natural Science, Laboratory	1
PE 1	Physical Education	(2)	PE 2	Physical Education	(2)
INTAC 1	Introduction to Ateneo Culture and Traditions	(0)	INTAC 2	Introduction to Ateneo Culture and Traditions	(0)
		<i>Total:</i> 16			<i>Total:</i> 16

### SECOND YEAR

<u>First Semester</u>		<u>Units</u>	<u>Second Semester</u>		<u>Units</u>
HI 16/HI 18	Asian History/Western History	3	TH 121	An Introduction to Doing a Catholic Theology	3
FIL 14	Panitikan ng Pilipinas	3	PSY 101	General Psychology	3
FLC	Foreign Language and Culture	3	EC 102	Basic Economics, Agrarian Reform, and Taxation	3
SCI 10	Science and Society	3	SA 21	Introduction to Sociology and Anthropology	3
PH 100	Introduction to Philosophy	3	PH 112	History of Ideas: Eastern II (Chinese Philosophy)	3
PH 135	Introduction to Logic	(2)	PH 115	History of Ideas: Western I (Ancient Philosophy)	3
PE 3	Physical Education	(3)	PE 4	Physical Education	(2)
NSTP 1	National Service Training Program	(3)	NSTP 2	National Service Training Program	(3)
		<i>Total:</i> 18			<i>Total:</i> 18

### THIRD YEAR

<u>First Semester</u>		<u>Units</u>	<u>Second Semester</u>		<u>Units</u>
HI 165	Rizal and the Emergence of the Philippine Nation	3	HI 166	Philippine History	3
POS 100	Politics and Governance	3	TH 131	Marriage, Family Life and Human Sexuality in a Catholic Perspective	3
PH 101	Philosophy of the Human Person I	3	PH 102	Philosophy of the Human Person II	3
PH 111	History of Ancient Indian Thought	3	PH 117	History of Ideas: Western III (Modern Philosophy)	3
PH 116	History of Ideas: Western II (Medieval Philosophy)	3	PH 131	Theory of Knowledge	3
PH 132	Metaphysics	3	PH 171/	Political Philosophy/	3
		<i>Total:</i> 18	PH ELEC	Philosophy Elective	3
					<i>Total:</i> 18

### FOURTH YEAR

<u>First Semester</u>		<u>Units</u>	<u>Second Semester</u>		<u>Units</u>
TH 141/	A Theology of the Catholic Social Vision/		TH 141/	A Theology of the Catholic Social Vision/	
TH 151	The Catholic Commitment of Today's Filipino: A Synthesis	3	TH 151	The Catholic Commitment of Today's Filipino: A Synthesis	3
PH 103/	Philosophy of Religion/		PH 103/	Philosophy of Religion/	
PH 104	Foundations of Moral Value	3	PH 104	Foundations of Moral Value	3
PH 118	History of Ideas: Western IV (Contemporary Philosophy)	3	PH 110	Philosophy Seminar	3
PH 133/	Philosophy of Science/		PH 134/	Philosophy of Language/	
FREE ELECTIVE		3	FREE ELECTIVE		3
PH 149/	Philippine Perspectives on Philippine Social Theory /		PH ELECTIVE		3
PH ELECTIVE		3	FREE ELECTIVE		3
PH ELECTIVE		3			<i>Total:</i> 18
		<i>Total:</i> 18			

Total Number of Academic Units: 140  
Curriculum Effective Freshman Batch SY 2010-2011



## MINOR IN PHILOSOPHY

The Minor Degree in Philosophy is for students who feel that they want to gain the skills of philosophy or engage in philosophical thought while concentrating on other fields of study. These minors are required to take 4 additional philosophy courses that suit their interests but may also be clustered along cognate subjects like those in the fields of politics and law; applied ethics, society and culture; or culture, art, and literature.

Students fulfill the requirements for the Minor in Philosophy upon passing, with a grade of at least C, the subjects listed below:

PH 101	Philosophy of the Human Person I	3 units
PH 102	Philosophy of the Human Person II	3 units
PH 103	Philosophy of Religion	3 units
PH 104	Foundations of Moral Value	3 units
Four (4) Philosophy electives		12 units

All interested students must first meet with the Undergraduate Program Coordinator of the Department of Philosophy. The Coordinator will clarify the requirements of the Minor Program, as well as discuss with the student the track or cluster of electives that s/he may want to take. The student is afterwards required to send a letter of intent addressed to the Department Chair in order to be considered for the Program. Once accepted, the student must submit a clear copy of his/her grade report at the end of every semester in which s/he was enrolled in a Philosophy course. Before the student graduates, s/he must submit a copy of his/her transcript of records to the Department. The student will receive a certificate to indicate the completion of the program.

The minor is open to all students of any major in the Loyola Schools.

## COURSE OFFERINGS

**PH 100**  
**INTRODUCTION TO**  
**PHILOSOPHICAL RESEARCH**  
**3 units**

This course is an introduction to the act of philosophizing by tracing five important moments — the Stoic, Christian, Modern, Post-Modern, and Post-Deconstruction — in the history of philosophy.

**PH 101**  
**PHILOSOPHY OF THE**  
**HUMAN PERSON I**  
**3 units**

This course discusses the nature of philosophy, with opportunities to reflect on the various aspects of

being human: freedom and knowledge, embodiment, historicity and temporality, death, and the Absolute.

**PH 102**  
**PHILOSOPHY OF THE**  
**HUMAN PERSON II**  
**3 units**

**Pre-requisite: PH 101**  
This course discusses the social dimension of human existence in two parts: the first part is foundational and deals with intersubjectivity, the various forms of sociality, the common good, and the meaning of work; and the second part deals with special topics of current interest.

**PH 103**  
**PHILOSOPHY OF RELIGION**  
**3 units**

**Pre-requisite: PH 102**  
This course is a critical examination of the human experience of religion, arguments and counter-arguments for the existence of God, and a Phenomenology and Metaphysics of Hope.

**PH 104**  
**FOUNDATIONS OF MORAL**  
**VALUE**  
**3 units**

**Pre-requisites: PH 102**  
This course discusses the classical and contemporary traditions of



moral philosophy, its basic principles of morality and the question of ultimate foundations: conscience, natural law, self-determination, the Transcendent, and applications to concrete cases including sexuality, marriage and the family, social justice, politics, and the environment.

**PH 110**  
**PHILOSOPHY SEMINAR**  
**3 units**

This course reviews the major philosophical disciplines integrating the philosophy courses with each other and with the life-situation of the Philippines today.

**PH 111**  
**HISTORY OF ANCIENT INDIAN THOUGHT**  
**3 units**

This course is a survey of Ancient Indian thought, with a detailed study of the *Isha* and *Chandogya Upanishads*, the *Gita*, and excerpts from *Shankara*.

**PH 112**  
**HISTORY OF IDEAS: EASTERN II (CHINESE PHILOSOPHY)**  
**3 units**

This course is a survey of Ancient Chinese thought, with a meditative study of the classical texts in translation: The Four Books (*The Great Learning*; *The Doctrine of the Mean*; *The Analects* of Confucius; the works of Mencius), the *Daodejing*, and the writings of Zhuangzi.

**PH 113**  
**MODERN INDIAN THOUGHT**  
**3 units**

This course is a survey of the six orthodox systems of Indian philosophy and a study of the philosophies of Sri Aurobindo, Sarvepalli Radhakrishnan, and Mahatma Gandhi.

**PH 114**  
**MODERN CHINESE THOUGHT**  
**3 units**

This course is a survey of Neo-Daoism and Neo-Confucianism as well as the philosophies of China in the 19<sup>th</sup> and 20<sup>th</sup> centuries.

**PH 115**  
**HISTORY OF IDEAS: WESTERN I (ANCIENT PHILOSOPHY)**  
**3 units**

This course is a study of Greek and Roman philosophy with emphasis on Socrates, Plato, and Aristotle.

**PH 116**  
**HISTORY OF IDEAS: WESTERN II (MEDIEVAL PHILOSOPHY)**  
**3 units**

This course studies the philosophies of the Post-Roman and Middle Ages with emphasis on Augustine, Anselm, Bonaventure, and Thomas Aquinas.

**PH 117**  
**HISTORY OF IDEAS: WESTERN III (MODERN PHILOSOPHY)**  
**3 units**

This course is a study of the philosophies in the 16<sup>th</sup> to 19<sup>th</sup> centuries focusing on Descartes' *Meditations*, Hume, Kant's *Critique of Pure Reason*, and Post-Kantian Philosophy.

**PH 118**  
**HISTORY OF IDEAS: WESTERN IV (CONTEMPORARY PHILOSOPHY)**  
**3 units**

This course discusses the living thought of the 20<sup>th</sup> century, focusing on analytic philosophy, Phenomenology, Existentialism, Hermeneutics, and Language Philosophy.

**PH 119**  
**NEOPLATONISM**  
**3 units**

This course is a survey of the philosophical systems of Plotinus, Denys, John Scottus Eriugena, and Marsilio Ficino.

**PH 120**  
**ISLAMIC THOUGHT**  
**3 units**

This course surveys the different strands of Islamic thought emerging from the beginning of Islam to the 12th century. The course begins with an appreciation of the nature of Islamic philosophy and follows its development in the work of al-Razi, al-Kindi, Ibn Sina, al-Ghazali, al-Suhrawardi, and Ibn Rushd.

**PH 122**  
**KIERKEGAARD**  
**3 units**

This course is a study of the works of Søren Kierkegaard.

**PH 125**  
**HEIDEGGER**  
**3 units**

This course is a study of the works of Martin Heidegger.

**PH 128**  
**HEGEL**  
**3 units**

This course is a study of the philosophy of G.W.F. Hegel (1770-1831) through an analysis of a selection of primary texts and available English translations.

**PH 129**  
**MARX**  
**3 units**

This course discusses the major works of Karl Marx, tracing the roots of his critical philosophy. It presents the major themes of his social and economic critique and its relation to his early reflections on the task of philosophy and the meaning of human existence.

**PH 131**  
**THEORY OF KNOWLEDGE**  
**3 units**

This course is an inquiry into a philosophical theory of knowledge in which students reflect on what knowing is, the benefit that knowing brings to the knower, and the role of the community and of the knowable.

**PH 132**  
**METAPHYSICS**  
**3 units**

This course is an inquiry into the dynamic structure of *esse* as encroaching on the knower and the transcendent structure of *esse*: Being as One, True, Good, and Beautiful.

**PH 133**  
**PHILOSOPHY OF SCIENCE**  
**3 units**

This course studies modern science and its relation to man's other ways of knowing and experiencing. The roots and meaning of science are sought in the historical development of the ideal of science. The role of genius in scientific discovery and revolution concludes the course.

**PH 134**  
**PHILOSOPHY OF LANGUAGE**  
**3 units**

This course studies the 20<sup>th</sup> century development of the analytic philosophy of language. Focus is on its development, distinguishing the three major periods: its beginnings in Russell and Wittgenstein; the logical positivism of the Vienna Circle; and the ordinary language philosophy of the post-WWII period.

**PH 135**  
**INTRODUCTION**  
**TO LOGIC**  
**3 units**

This course discusses the denotation and connotation of terms, the categorical proposition,

immediate inference by deduction and opposition; mediate inference, the categorical and hypothetical syllogisms, fallacies, predicables, induction, argument by analogy, science, and hypothesis.

**PH 136**  
**SURVEY OF ANCIENT AND**  
**MEDIEVAL PHILOSOPHY**  
**3 units**

This course is an introduction to the thought, methodology, and contemporary relevance of the major figures in Greek and Medieval Philosophy. Emphasis is on the Pre-Socratics, Plato, and Aristotle for the former and Augustine, Anselm, Bonaventure, and Aquinas for the latter.

**PH 137**  
**WITTGENSTEIN'S MATURE**  
**PHILOSOPHY:**  
**MEANING AS USE**  
**3 units**

This course studies Wittgenstein's *Philosophical Investigations* (1953) which became the cryptic and much disputed "bible" of the third "school" of linguistic philosophy.

**PH 139**  
**PHILOSOPHY OF THE STATE**  
**3 units**

This course studies man as political being and political reality, its nature, immanent finality, and value for man. Focus is on three major contemporary political problems: confrontation of moral systems, conflict between the community's ethos and requirements of technology, and need for a world state.

**PH 140**  
**KANT**  
**3 units**

This course is a survey of the major insights of Immanuel Kant. Focus is on the three *Critiques*, which show his attempts to answer questions concerning

human knowledge and its limits, as well as those concerning universal morality.

**PH 141**  
**PLATO**  
**3 units**

This course discusses the Socratic dialogues. Topics include the significance of the dialogues as a literary and philosophical form, the role of myth and symbol in Plato's thought, the moral-social-political problematic of Socrates, language and the creation of the *polis*, and the image of man.

**PH 142**  
**PHILOSOPHY OF WORK**  
**3 units**

This course is a discussion of work as a collaboration of persons in transforming nature's meaning and finality; the changes brought about by modern technology; and the problems these changes pose concerning the meaning, value, and finality of modern work.

**PH 143**  
**PHILOSOPHY OF HISTORY**  
**3 units**

This course is a study of the cyclic and vectorial viewpoints of persons as historical beings, with a discussion on the meaning of the vectorial viewpoint for the Philippines as a society-in-transition.

**PH 144**  
**PHILOSOPHY OF SOCIETY**  
**3 units**

This course studies the phenomenology of social existence, aspects of human co-existence, ambiguity of social structures, power, the family, education, historical communities, economic-scientific-technological structures, the state, and the problem of violence.

**PH 145**  
**ADVANCED**  
**PHENOMENOLOGY**  
**3 units**

**Pre-requisites:** PH 101,  
PH 102

This course is a study of the basic writings of the phenomenologists from Husserl to Ricoeur, with emphasis on the use of phenomenology in philosophy and its interdisciplinary relevance.

**PH 146**  
**CONTEMPORARY CRISIS**  
**OF REASON**  
**3 units**

This course discusses the tension between the classical ideal of reason and modern scientific ideal from a philosophic point of view.

**PH 147**  
**CONTEMPORARY ATHEISM**  
**3 units**

This course is a survey of the philosophical basis of today's Atheism, including an inquiry into its background, main trends, and particular orientations.

**PH 148**  
**THE PROBLEM OF GOD IN**  
**EXISTENTIALIST**  
**LITERATURE**  
**3 units**

This is a seminar course focusing on selected 19<sup>th</sup> and 20<sup>th</sup> century existential texts concerned with the problem of God, in particular, Kierkegaard, Dostoyevsky, Nietzsche, Camus, and Sartre.

**PH 149**  
**PHILOSOPHICAL**  
**PERSPECTIVES ON**  
**PHILIPPINE SOCIAL THEORY**  
**3 units**

This course reflects on the possibility of theorizing on Philippine social reality using the works of Filipino thinkers. It gives its students the opportunity to philosophically engage thinkers who have reflected on the

meaning of Philippine society and invites them to formulate their own framework for reading their current reality.

**PH 151**  
**SCHELER**  
**3 units**

This course explores the major works of Max Scheler. The course traces the development of his thought from the Catholic work to the sociology of knowledge, and demonstrates how his main themes center on his desire to articulate the meaning of genuine human existence.

**PH 152**  
**PHILOSOPHY OF ART**  
**3 units**

This course introduces the traditional concerns of aesthetics: the nature of aesthetic judgment, aesthetic appreciation, taste, genius, the artistic process, the (im)possibility of universal judgments and the role of culture and class in criticism. Texts by Plato, Aristotle, Kant, and Nietzsche are taken up.

**PH 153**  
**RICOEUR**  
**3 units**

This course is a study of Ricoeur's later writings, particularly, his theory of interpretation and Texts. It shows the importance of Narratives in our lives, and tackles the related themes of Identity, Memory, History, Forgetting, and Forgiving.

**PH 154**  
**PHILOSOPHY OF WOMAN**  
**3 units**

This course is a study of the different views on women by thinkers such as John Stuart Mill and Simone de Beauvoir. Topics include the issue of feminism in literature and feminism in theology.

**PH 155**  
**BUDDHIST THOUGHT**  
**3 units**

This course is an introduction to classical Buddhism, focusing on *The Dharmapada*, and a survey of the historical development of Buddhism – Theravada, Mahayana, Ch'an, Tibetan, and Zen Buddhism.

**PH 155.1**  
**DAOISM AND ZEN**  
**BUDDHISM**  
**3 units**

This course explores two Asian philosophical traditions that have influenced much of the thinking and way of life in China and Japan and even beyond. The course delves into the Ancient question of the meaning of Dao through a study of two texts of Daoist philosophy—Daodejing and Zhuangzi.

**PH 156**  
**PHILOSOPHICAL**  
**PERSPECTIVES**  
**3 units**

This is a philosophical treatment of topics related to various dimensions of human existence and the history of ideas, such as theory and practice of non-violence, modern Jewish thought, physics and philosophy, hermeneutics and contemporary literary theory, and gnostic thought.

**PH 156.1**  
**PHILOSOPHICAL**  
**PERSPECTIVES: SEMINAR IN**  
**ETHICAL THEORIES**  
**3 units**

This is a seminar by a team of professors from the Department of Philosophy which engages the question of the good in the contemporary age, marked as it is by the challenges posed by the growing awareness of plurality and difference.

**PH 156.2  
PHILOSOPHICAL  
PERSPECTIVES: READING  
THE PRE-SOCRATICS**

**3 units**

This is a course on the beginnings of Western philosophy, exploring the speculations of these earliest thinkers. It begins with the metaphysical contributions of the early Ionians and the Pythagoreans, of Heraclitus' aphorisms, of Parmenides' song, and ends with the humanistic assertions of the Sophists.

**PH 156.3  
PHILOSOPHICAL  
PERSPECTIVES: SCIENCE AND  
RELIGION**

**3 units**

This is a course on the major issues in the debate between science and religion, their place in society, and their possible fruitful engagement. It explores the thoughts of major thinkers from the fields of philosophy, science, and religious studies.

**PH 156.4  
PHILOSOPHICAL  
PERSPECTIVES: THERAPIES  
OF THE SELF**

**3 units**

This course studies the earlier period of philosophy when it understood itself as a practical and compassionate attempt to help humanity attain a greater measure of flourishing, particularly the Hellenistic philosophical schools in Greece and Rome—the Epicureans, Skeptics, Stoics, and Cynics.

**PH 156.5  
PHILOSOPHICAL  
PERSPECTIVES: NICHOLAS  
OF CUSA**

**3 units**

This is a course that offers a close reading of Nicholas of Cusa's corpus, showing how his philosophical insights have an inherent political critique.

**PH 156.6  
PHILOSOPHICAL  
PERSPECTIVES: PROCESS  
PHILOSOPHY**

**3 units**

This course studies process metaphysics which is the philosophical position that views reality not only as a process but also as a relation as it rejects the traditional metaphysical view that substance exists by itself, isolated from other self-subsistent realities.

**PH 156.8  
BIOETHICS**

**3 units**

This course explores the bioethical questions, mainly in biomedical ethics and "green" and "red" gene technology. Topics include an overview of bioethics, its different uses in the East and West, the two main ethical theories – Utilitarianism and Kantianism, and the Four Principles in biomedical ethics.

**PH 156.9  
PHILOSOPHICAL  
PERSPECTIVES ON THE  
MIEVEAL CITY**

**3 units**

This course is an introduction to the politics and aesthetics of medieval European cities. Focus is on the socio-political development of these cities and their forms of government and culture. Actual political practices are compared with the ideas of famous texts on medieval political philosophy.

**PH 157  
PHILOSOPHICAL TOPICS**

**3 units**

This is a seminar course on particular problems in systematic philosophy or the history of philosophy. Such problems include the mind-body problem, alternative logics, the notion of Christian philosophy, evolution,

dialectic and analogy, and the history of the transcendental ego.

**PH 157.1  
PHILOSOPHICAL TOPICS:  
SEMINAR IN APPLIED ETHICS**

**3 units**

This is a course that consists of lectures by a team of teachers presenting their current research on various topics in contemporary applied ethics, such as bioethics, environmental ethics, media ethics, and ethics in governance.

**PH 157.5  
PHILOSOPHICAL TOPICS:  
SOLIDARITY IN MULTI-  
RATIONAL SOCIETIES**

**3 units**

This is a course on the theories of Max Scheler, Jurgen Habermas, John Rawls, and Mahatma Gandhi. The course discusses how they can be used to articulate a philosophy of social solidarity in a world that is multicultural and multirational.

**PH 157.6  
PHILOSOPHICAL TOPICS:  
LEVINAS**

**3 units**

This course studies the philosophy of Emmanuel Levinas, who regarded ethics as the foundation of philosophy. It shows how responsibility for the one leads to justice for the many.

**PH 157.8  
PHILOSOPHICAL TOPICS:  
INTANGIBLE HERITAGE:  
ORALITY, MEMORY,  
CREATIVITY**

**3 units**

This course thinks the task of recovering and preserving the sources of the dynamism of the Filipino self and its heritage. An interface between philosophy, sociology, and anthropology, the course critically appreciates Filipino heritage and draws from it the meaning of culture and its products.

**PH 158****CRITICAL THEORY****3 units**

This course is an analysis of pathological distortions in social life from the perspective of repression and communicative rationality.

**PH 160****BUSINESS ETHICS****3 units**

This course is a discussion, with case studies, of contemporary moral controversies in business.

**PH 161****PHILOSOPHY OF CULTURE****3 units**

This course discusses the role of philosophy in cultural processes, and the influence of culture in the historical development of philosophy.

**PH 162****LITERATURE AND PHILOSOPHY****3 units**

This course is a literary approach to philosophy and a philosophical approach to literature.

**PH 163****ENVIRONMENTAL ETHICS****3 units**

This course discusses environmental issues from an ethical standpoint, focusing on the problem of man's relationship with nature.

**PH 165****FOUCAULT****3 units**

This course is a study of the thought of Michel Foucault and its importance in current debates in sociology, political science, and philosophy. It argues, from an interdisciplinary perspective, that one of the keys to understanding Foucault is his political thought.

**PH 166****PHILOSOPHY AND FILM****3 units**

This course discusses film as a way of introducing philosophical ideas and philosophical perspectives in the analysis of films.

**PH 167****ARENDT****3 units**

This course is a study of Hannah Arendt's political thought. Focus is on *The Human Condition* and *Between Past and Future*. The course examines her reflections on the meaning of politics and power.

**PH 168****POSTMODERNISM****3 units**

This course is a discussion on the "deconstructive turn" in contemporary philosophy.

**PH 170****NIETZSCHE****3 units**

This course studies the major themes in the philosophy of Friedrich Nietzsche. It traces their development and seeks to understand why his works are such a major influence on the most important contemporary philosophers like Heidegger, Derrida, and Foucault.

**PH 171****POLITICAL PHILOSOPHY****3 units**

This course is an analysis of basic political concepts and their applications to contemporary issues such as the state and civil society, technocracy, consumerism, and the private and public spheres.

**PH 171.1****POLITICAL PHILOSOPHY: PHILOSOPHY OF LAW****3 units**

This course is a philosophical reflection in the meaning of law—its basis, sources, role in society, and relationship to ethics and power. The course surveys classical, modern and contemporary theories of law and how specific legal systems have been influenced by these philosophical traditions.

**PH 171.2****POLITICAL PHILOSOPHY: LEGAL THEORY****3 units**

This course is an exploration of modern and contemporary theories on the practice of law. It explores the idea of law as it emerges from its realization using the philosophical theoretic apparatuses while engaging the works of legal researches, anthropologists, sociologists, and literary theorists.

**PH 172****SIMONE WEIL****3 units**

This course studies the key works of Simone Weil, which touch on the themes of political idealism, rootedness, ethics, attention and mysticism.

**PH 173****SPINOZA****3 units**

This course studies one of the most influential philosophers of early modernity, Benedict Spinoza, focusing on his radical understanding of God, the world, and human beings as presented in his principal philosophic work, *Ethics*.

**PH 174****PHILOSOPHY OF NATURE****3 units**

This course attempts to formulate the adequate definition of nature and its relationship between science and metaphysics. The course culminates in distinguishing natural philosophy

from the natural sciences and the discovery of their mutual complementariness.

**PH 175.1**  
**THE METAPHYSICS AND ETHICS OF ELFLAND I**

**3 units**

This course is a reflection on some of the philosophical issues raised in the classics of English high fantasy during the Victorian era: the unity of the transcendentals – Being, Good, True, One, Beautiful – the foundational mediation of the imagination, the primordial opening to the Transcendent.

**PH 175.2**  
**THE METAPHYSICS AND ETHICS OF ELFLAND II**

**3 units**

This course is a reflection on the works of the Inklings: Charles Williams, C.S. Lewis, and J.R.R. Tolkien. It discusses the notions of secondary creation, romantic love, and *Sehnsucht* as hypothetical responses to the three Kantian questions on knowing, acting, and hoping.

**PH 176**  
**JAPANESE PHILOSOPHY**

**3 units**

This course discusses the philosophies that emerged from the Kamakura period to the contemporary period, including in-depth analyses of the key originating figures, Dōgen and Shinran, and to the Kyoto School of Philosophy, a school that has risen to global importance for contemporary philosophers.

**PH 177**  
**PHILOSOPHY OF THE FAMILY AND THE STATE**

**3 units**

This course is a critical study of the relation and interdependence of the family and the state in modern times. Practical philosophy and social contract theories are discussed in looking

at the family which is a key institution in society.

**PH 178**  
**RORTY**

**3 units**

This course studies the pragmatic philosophy of Richard Rorty. The course begins with a discussion of Rorty's portrayal of philosophy as a "mirror of nature" and his critique of it, followed by his conception of pragmatic rationality, and culminating with his vision of parochial solidarity.

**PH 179**  
**PHILOSOPHY OF TECHNOLOGY**

**3 units**

This course is a thematic and historical study of philosophical thought on technology. The course provides students the opportunity to critically engage various approaches to the question of technology enabling them to assume a critical and reflective stance toward modern technological revolution.

**PH 180**  
**DAOIST PHILOSOPHY**

**3 units**

This course studies the key principles of *dao-de* using two major Daoist texts – Daodejing and Zhuangzi, thereby opening the way for an appreciation of a manner of being human as *wei ziran* (為自然).

**PH 190**  
**PHILOSOPHY OF ART**

**3 units**

This course explores questions on the nature of the aesthetic experience and the making of aesthetic judgment, and those on the work of art, what an artist does, and what artistic genius is. Readings include texts from Plato, Aristotle, Hume, Kant, and Heidegger.



3/F Horacio de la Costa Building  
(632) 426-6001 loc. 5370  
fax: (632) 426-6001 loc. 5371  
theology.soh@ateneo.edu

# THEOLOGY

**Michael Demetrius H. Asis**  
*Chair*

**Faculty**  
***Professor Emeritus***  
Joseph L. Roche, S.J.

***Professors***  
Adolfo N. Dacanay, S.J.  
Michael Demetrius H. Asis

***Associate Professors***  
Pasquale T. Giordano, S.J.  
Roberto Conrado O. Guevara  
Markus E. Locker  
Ruben C. Mendoza  
Ma. Lucia C. Natividad

***Assistant Professors***  
Raymond B. Aguas  
Udo Goebel  
Patricia P. Lambino-Panganiban  
Michael J. Liberatore

***Instructors***  
Jaime A. Acevedo • Maria Elisa A. Borja  
Rosar P. Crisostomo • Dary E. Dacanay  
Javier Luis P. Gomez • Nathaniel J. Hutchison  
Edilbero Isidore C. Jimenez • Josemaria Roberto V.  
Reyes • Herman G. Rochester • Raoul R. Roncal  
Rachel Joyce Marie O. Sanchez • Daniel S. Sormani,  
C.S.Sp.

***Assistant Instructors***  
John Paul A. Bolano • Wilson Angelo G. Espiritu •  
Scott J. Molony

***Lecturers***  
Justin Joseph G. Badion • Asandas D. Balchand, S.J. •  
Javier Miguel A. Galvez • Mark Stephen T. Gotidoc •  
Sophia P. Manapat • Monica T. Nalupta • Peter O.  
Pojol, S.J. • Stephanie Ann Y. Puen • Ralph Jacinto A.  
Quiblat • Rizalina T. Simpás • Carmen LB Valdes  
• Georg Ziselsberger, S.V.D.

As an integral part of the Loyola Schools of the Ateneo de Manila University, a Filipino Catholic Jesuit University, the Theology Department brings to bear the living Catholic theological tradition in the total formation of the Ateneo students, the goals of which are academic excellence, social responsibility, spiritual maturity, and cultural rootedness. This is pursued through systematic reflection—critical, contemporary, and inculturated—on human life as illumined by Christian Faith and its implications for personal and social commitments.

As the Ateneo de Manila expands its role in a rapidly changing Philippine society within an emerging global world, the Theology Department has a distinctive contribution to make as a center of theological study and reflection. In its collaborative endeavors with Loyola School of Theology in teaching, research, and publication, it pursues excellence in higher Christian theological education in the Philippines and in South East Asia.



## COURSE OFFERINGS

### **TH 121**

#### **AN INTRODUCTION TO DOING A CATHOLIC THEOLOGY**

**3 units**

This course focuses on the basics of theologizing at the college level by teaching the skills needed for an intelligent and mature use of the primary sources of faith – Revelation and Faith; Scripture and Tradition – centered on Jesus Christ and grounded in human experience.

### **TH 131**

#### **MARRIAGE, FAMILY LIFE, AND HUMAN SEXUALITY IN A CATHOLIC PERSPECTIVE**

**3 units**

**Pre-requisite: TH 121**

This course takes students through a study of Christian anthropology and of marriage as a sacrament. The issues related to marriage and human sexuality, including the laws of the Catholic Church on marriage are discussed in dialogue with philosophy, psychology, and other cognate disciplines.

### **TH 141**

#### **A THEOLOGY OF THE CATHOLIC SOCIAL VISION**

**3 units**

**Pre-requisite: TH 131**

This course deepens the moral demands of the Christian Faith within the Philippine socio-cultural situation through Scripture and Catholic Social Teaching. Students' direct contact with Philippine society's marginalized sectors informs their reflections on social commitment and the pursuit of justice in the country.

### **TH 151**

#### **THE CATHOLIC COMMITMENT OF TODAY'S FILIPINO:**

#### **A SYNTHESIS**

**3 units**

**Pre-requisite: TH 131**

This course synthesizes students' academic and faith experiences by emphasizing the Christian understanding of commitment as a faith vision and way of life. Students' reflections integrate relationships among faith and reason, freedom and conscience, sin and grace, vocation and fidelity, and individual and community.

### **TH 161.3**

#### **RELIGION AND SCIENCE: CONFLICT OR DIALOGUE?**

**3 units**

**Pre-requisites: TH 121 and  
SCI 10 (for non-science majors)  
or any basic science course for  
science majors**

This is a historical survey of the relationship between Christianity and modern science, from the medieval era to the birth of modern science down to the present century, focusing on dialogue and integration between them to form a holistic understanding of the world and humanity.

### **TH 161.4**

#### **SCRIPTURE AS SAVING/ REDEEMING LITERATURE**

**3 units**

This is a course on how to read, study, and pray sacred Scripture, "performing" the truth that Scripture is truly the soul of personal theological reflecting and of theology itself.

### **TH 161.5**

#### **CHURCH AND CULTURE: CONTEMPORARY ISSUES IN CHRISTOLOGY, MORALITY AND LITURGY**

**3 units**

This is a seminar course on the more contemporary and controversial doctrinal, moral, and liturgical issues facing the Catholic Church today, including historical Jesus studies, issues in sexual ethics, liturgical adaptation and spirituality, and many other questions confronting Church life and mission today.

### **TH 161.6**

#### **FACING THE CHALLENGE OF LIVING A MORAL LIFE TODAY**

**3 units**

This course studies the relationship between evangelization and morality, allowing the Gospel to permeate into every area of life and human concern, focusing on social ethics, bio-ethics and sexual ethics, and fundamental moral theology.

### **TH 161.7**

#### **ISLAM: MYTHS AND REALITY**

**3 units**

This is an introductory course on Islam with emphasis on its historicity in the Arabian context, and its subsequent impact on Western civilization.

### **TH 161.8**

#### **INTRODUCTION TO BIBLICAL INTERPRETATION**

**3 units**

**Pre-requisite: at least second year standing**

This is an introduction to the world of Biblical interpretation. Students read selected Old and New Testament texts and engage literary, historical and source critical, political, feminist, and spiritual interpretations and

studies by a range of authors—ancient, modern and contemporary; and Jewish and Christian.

**TH 161.9**  
**FINDING GOD IN THE DARK:**  
**CINEMA AND THE SPIRITUAL**  
**EXERCISES OF ST. IGNATIUS**  
**OF LOYOLA**

**3 units**

This course introduces film watching from the perspective of the Catholic faith and through the lens of the Spiritual Exercises of St. Ignatius of Loyola. It introduces the students to the rich heritage of a tradition called the Catholic Imagination in the cinematic arts.

**TH 161.9.1**  
**THEOLOGICAL**  
**PERSPECTIVES: A VISION FOR**  
**CHRISTIANITY ACCORDING**  
**TO THE WORLD OF FANTASY**  
**LITERATURE**

**3 units**

**Pre-requisite: TH 121**

This course explores the worlds of Fantasy Literature through a theological perspective on Creation, Christology and Eschatology, grounded in the Catholic tradition. The course explores C.S. Lewis, The Chronicles of Narnia and J.R.R. Tolkien's The Lord of the Rings trilogy.

**TH 199**  
**CONTEMPORARY TOPICS IN**  
**THEOLOGY**

**3 units**

This course serves as the umbrella category for all new courses in theology dealing with contemporary topics. Following Vatican II's lead in reading the "signs of the times," these courses engage the modern world and emerging trends both in theology as well as culture.

**TH 199.1**  
**CONTEMPORARY TOPICS IN**  
**THEOLOGY: GAME OF**  
**THRONES**

**3 units**

Historically, this course delves into the many historical parallels with Game of Thrones' geography, social structures, warfare, religion, characters, and events. Theologically, the course investigates topics like divinity, revelation, metaphysics, ethics, freedom, and conscience through the prism of events and characters from the series.



*the*  
JOHN  
GOKONGWEI  
SCHOOL  
*of* MANAGEMENT

Darwin D. Yu, Ph. D.  
*DEAN*

## BACHELOR OF SCIENCE IN MANAGEMENT

The BS Management program curriculum is designed to develop in students the sort of entrepreneurial eye and attitude that will help them to see opportunities where others might see problems, to innovate where others might be contented to simply keep things the same, to say “I will do it” where others might be contented to simply wait for someone else to do it.

To achieve this, the major curriculum of the program is heavily project-oriented, with an emphasis on experiential and hands-on learning, rather than just classroom-based and textbook learning. Over the four years of the program, students are given multiple opportunities to hone their business planning skills. The centerpiece of the program is a culminating (and integrating) project where students are organized into micro-enterprise groups and tasked to actually run a business in their senior year.

By the time they graduate, we expect our students to have the requisite skills in each of the different business disciplines necessary to effectively and efficiently manage and lead any type of organization. More importantly, they should have the sort of entrepreneurial attitude and outlook that will help them to be effective change agents, innovators, and leaders, whether as founders of their own business ventures, or as managers in the largest multinational corporations.

### FIRST YEAR

<u>First Semester</u>		<u>Units</u>	<u>Second Semester</u>		<u>Units</u>
EN 11	Communication in English I	3	EN 12	Communication in English II	3
LIT 13	Introduction to Fiction	3	LIT 14	Introduction to Poetry and Drama	3
MA 11	Modern Mathematics I	3	MA 19	Applied Calculus for Business	6
FIL 11	Sining ng Pakikipagtalastasan sa Filipino I	3	FIL 12	Sining ng Pakikipagtalastasan sa Filipino II	3
NATSCI 1A	Natural Science, Lecture	3	NATSCI 2A	Natural Science, Lecture	3
NATSCI 1B	Natural Science, Laboratory	1	NATSCI 2B	Natural Science, Laboratory	1
PE 1	Physical Education	(2)	PE 2	Physical Education	(2)
INTAC 1	Introduction to Ateneo Culture and Traditions	(0)	INTAC 2	Introduction to Ateneo Culture and Traditions	(0)
		<i>Total:</i> 16			<i>Total:</i> 19

### SECOND YEAR

<u>Summer</u>		<u>Units</u>
ITM 11	Basic Information Technology Applications in Business	(0)
		<i>Total:</i> 0

<u>First Semester</u>		<u>Units</u>	<u>Second Semester</u>		<u>Units</u>
SCI 10	Science and Society	3	FIL 14	Panitikan ng Pilipinas	3
FLC	Foreign Language and Culture	3	SA 21	Introduction to Sociology and Anthropology	3
EC 102	Basic Economics, Agrarian Reform and Taxation	3	TH 121	An Introduction to Doing a Catholic Theology	3
PSY 101	General Psychology	3	HI 16/HI 18	Asian History/Western History	3
LS 10	Philippine Business and Economic Environment	2	ACC 30	Introduction to Managerial Accounting	3
ACC 10	Principles of Accounting	3	LAW 11	Essentials of Philippine Business Law	3
QMT 11	Business Statistics	3	PE 4	Physical Education	(2)
PE 3	Physical Education	(2)	NSTP 2	National Service Training Program	(3)
NSTP 1	National Service Training Program	(3)			<i>Total:</i> 18
		<i>Total:</i> 20			

### THIRD YEAR

<u>First Semester</u>		<u>Units</u>	<u>Second Semester</u>		<u>Units</u>
PH 101	Philosophy of the Human Person I	3	PH 102	Philosophy of the Human Person II	3
TH 131	Marriage, Family Life and Human Sexuality in a Catholic Perspective	3	HI 166	Philippine History	3
HI 165	Rizal and the Emergence of the Philippine Nation	3	FIN 103	Principles of Finance	3
ACC 101	Cost Accounting	3	POM 102	Fundamentals of Production and Operations Management	3
EC 111	Intermediate Microeconomic Theory	3	MKT 102	Opportunity Seeking and Marketing Analysis	5
LS 100	Organizational Behavior	3			<i>Total:</i> 17
		<i>Total:</i> 18			

### FOURTH YEAR

<u>First Semester</u>		<u>Units</u>	<u>Second Semester</u>		<u>Units</u>
PH 103/	Philosophy of Religion/		PH 103/	Philosophy of Religion/	
PH 104	Foundations of Moral Value	3	PH 104	Foundations of Moral Value	3

TH 141/	A Theology of the Catholic Social Vision/
TH 151	The Catholic Commitment of
	Today's Filipino: A Synthesis
POS 100	Politics and Governance
LS 126	Strategy Formulation
MGT ELECTIVE	
FREE ELECTIVE	

Total: 18

TH 141/	A Theology of the Catholic Social Vision/	
TH 151	The Catholic Commitment of	
	Today's Filipino: A Synthesis	3
LS 127	Strategy Implementation	3
MGT ELECTIVE		3
MGT ELECTIVE		3
FREE ELECTIVE		3

Total: 18

Total Number of Academic Units: 144  
Curriculum Effective Freshman Batch SY 2002-2003

## BACHELOR OF SCIENCE IN MANAGEMENT (HONORS PROGRAM)

The BS Management (Honors), or BMH, program is an Entrepreneurship program that relies heavily on an experiential learning framework in its approach to education. Thus, the curriculum emphasizes project work and hands-on exposure as a necessary complement to textbook learning and academic work, to create a richer, fuller, and more student-centered learning experience.

Students enrolled in the program will be exposed to all the basic functional areas of management, with a special focus on the needs of small-to-medium sized enterprises (SMEs) and family businesses. Because we believe that entrepreneurship is best learned through practice rather than just in theory, students will be given multiple opportunities to prepare business plans and to actually execute these plans over the four years of the program.

The curriculum is designed to develop in our students an eye for spotting opportunities and the entrepreneurial outlook that will move them to seize these opportunities as they become available, rather than to simply stand on the sidelines as mere spectators. This sort of eye and outlook will prove invaluable to them wherever their professional lives may take them, whether they start up their own entrepreneurial ventures, or go to work in multinational corporations.

The Honors program in Management is open only to applicants who score in the top 10% of the Ateneo College Entrance Test. An excellent additional avenue for learning comes from being in a class made up of only highly-intelligent, highly motivated, and self-driven individuals.

### FIRST YEAR

<u>First Semester</u>		<u>Units</u>	<u>Second Semester</u>		<u>Units</u>
EN 11	Communication in English I	3	EN 12	Communication in English II	3
LIT 13	Introduction to Fiction	3	LIT 14	Introduction to Poetry and Drama	3
MA 11	Modern Mathematics I	3	MA 19	Applied Calculus for Business	6
FIL 11	Sining ng Pakikipagtalastasan sa Filipino I	3	FIL 12	Sining ng Pakikipagtalastasan sa Filipino II	3
NATSCI 1A	Natural Science, Lecture	3	NATSCI 2A	Natural Science, Lecture	3
NATSCI 1B	Natural Science, Laboratory	1	NATSCI 2B	Natural Science, Laboratory	1
PE 1	Physical Education	(2)	PE 2	Physical Education	(2)
INTAC 1	Introduction to Ateneo Culture and Traditions	(0)	INTAC 2	Introduction to Ateneo Culture and Traditions	(0)
		Total: 16			Total: 19

### SECOND YEAR

<u>Summer</u>		<u>Units</u>			
ITM 11	Basic Information Technology Applications in Business	(0)			
		Total: 0			
<u>First Semester</u>		<u>Units</u>	<u>Second Semester</u>		<u>Units</u>
SCI 10	Science and Society	3	FLC	Foreign Language and Culture	3
FIL 14	Panitikan ng Pilipinas	3	SA 21	Introduction to Sociology and Anthropology	3
PSY 101	General Psychology	3	TH 121	An Introduction to Doing a Catholic Theology	3
HI 16/HI 18	Asian History/Western History	3	EC 102	Basic Economics, Agrarian Reform and Taxation	3
LS 10	Philippine Business and Economic Environment	2	ACC 30	Introduction to Managerial Accounting	3
ACC 10	Principles of Accounting	3	LAW 11	Essentials of Philippine Business Law	3
QMT 11	Business Statistics	3	PE 4	Physical Education	(2)
PE 3	Physical Education	(2)	NSTP 2	National Service Training Program	(3)
NSTP 1	National Service Training Program	(3)			Total: 18
		Total: 20			

### THIRD YEAR

#### Summer

EC 111	Intermediate Microeconomic Theory
HI 165	Rizal and the Emergence of the Philippine Nation

#### Units

3

Total: 6

#### First Semester

PH 101	Philosophy of the Human Person I
POS 100	Politics and Governance
HI 166	Philippine History
LS 101	Organizational Communication
LS 100	Organizational Behavior
ACC 101	Cost Accounting

#### Units

3

3

3

3

3

3

Total: 18

#### Second Semester

PH 102	Philosophy of the Human Person II
TH 131	Marriage, Family Life and Human Sexuality in a Catholic Perspective
MKT 102	Opportunity Seeking and Marketing Analysis
FIN 103	Principles of Finance
POM 102	Fundamentals of Production and Operations Management

#### Units

3

3

5

3

3

Total: 17

### FOURTH YEAR

#### Summer

LS 129	Work Practicum and Career Development
--------	---------------------------------------

#### Units

(0)

Total: 0

#### First Semester

PH 103/	Philosophy of Religion/
PH 104	Foundations of Moral Value
TH 141/	A Theology of the Catholic Social Vision/
TH 151	The Catholic Commitment of Today's Filipino: A Synthesis
LS 126	Strategy Formulation
LS 128	Small Business Consulting
MGT ELECTIVE	
FREE ELECTIVE	

#### Units

3

3

3

3

3

3

3

3

Total: 18

#### Second Semester

PH 103/	Philosophy of Religion/
PH 104	Foundations of Moral Value
TH 141/	A Theology of the Catholic Social Vision/
TH 151	The Catholic Commitment of Today's Filipino: A Synthesis
LS 127	Strategy Implementation
MGT ELECTIVE	
MGT ELECTIVE	
FREE ELECTIVE	

#### Units

3

3

3

3

3

3

3

3

Total: 18

Total Number of Academic Units: 150  
Curriculum Effective Freshman Batch SY 2002-2003

## BACHELOR OF SCIENCE IN MANAGEMENT ENGINEERING

The Management Engineering, or ME program of the John Gokongwei School of Management combines the Ateneo's traditional strength in the liberal arts with a strong foundation in business management and the decision sciences to create a curriculum that prepares students to meet the challenges of leading modern, information- and technology-intensive organizations.

Courses cover all the functional areas of business and management, with a special focus on quantitative approaches to business decision-making and systems thinking. The program also allows students to take electives to specialize in a particular functional area. ME students must hurdle rigorous academic standards in order to complete the program. Student performance is evaluated year-on-year to determine compliance with strict retention requirements.

The program produces highly motivated graduates who are wholistic in their world view, highly analytical in their decision making, and prepared to assume leadership roles in the workplace. ME graduates are highly regarded and heavily recruited by top-tier corporations, both local and multinational, across a variety of industries.

### FIRST YEAR

#### First Semester

EN 11	Communication in English I
LIT 13	Introduction to Fiction
MA 18A	Principles of Modern Mathematics I
MA 18B	Principles of Modern Mathematics II
FIL 11	Sining ng Pakikipagtalastasan sa Filipino I
NATSCI 1A	Natural Science, Lecture
NATSCI 1B	Natural Science, Laboratory
PE 1	Physical Education
INTAC 1	Introduction to Ateneo Culture and Traditions

#### Units

3

3

3

3

3

3

1

(2)

(0)

Total: 19

#### Second Semester

EN 12	Communication in English II
LIT 14	Introduction to Poetry and Drama
MA 21	Mathematical Analysis I
FIL 12	Sining ng Pakikipagtalastasan sa Filipino II
NATSCI 2A	Natural Science, Lecture
NATSCI 2B	Natural Science, Laboratory
PE 2	Physical Education
INTAC 2	Introduction to Ateneo Culture and Traditions

#### Units

3

3

6

3

3

1

(2)

(0)

Total: 19

## SECOND YEAR

### Summer

ITM 14	Information Technology Application Programming	3
<i>Total:</i>		3

### First Semester

SCI 10	Science and Society	3
TH 121	An Introduction to Doing a Catholic Theology	3
FLC	Foreign Language and Culture	3
MA 22	Mathematical Analysis II	3
ACC 20	Financial Accounting	3
PE 3	Physical Education	(2)
NSTP 1	National Service Training Program	(3)
<i>Total:</i>		15

### Second Semester

FIL 14	Panitikan ng Pilipinas	3
SA 21	Introduction to Sociology and Anthropology	3
PSY 101	General Psychology	3
HI 16/HI 18	Asian History/Western History	3
ACC 35	Managerial Accounting	3
EC 102	Basic Economics, Agrarian Reform and Taxation	3
PE 4	Physical Education	(2)
NSTP 2	National Service Training Program	(3)
<i>Total:</i>		18

## THIRD YEAR

### Summer

MA 151	Elementary Probability Theory	3
EC 112	Intermediate Macroeconomic Theory	3
<i>Total:</i>		6

### First Semester

PH 101	Philosophy of the Human Person I	3
HI 165	Rizal and the Emergence of the Philippine Nation	3
QMT 127	Intermediate Operations Research	3
QMT 109	Business Research and Statistical Modeling	3
FIN 105	Financial Management	3
FREE ELECTIVE		3
<i>Total:</i>		18

### Second Semester

PH 102	Philosophy of the Human Person II	3
MKT 101	Principles of Marketing	3
QMT 128	Advanced Operations Research	3
LS 100	Organizational Behavior	3
TH 131	Marriage, Family Life and Human Sexuality in a Catholic Perspective	3
MAJOR ELECTIVE		3
<i>Total:</i>		18

## FOURTH YEAR

### Summer

SUMMER WORK PRACTICUM		(0)
<i>Total:</i>		0

### First Semester

PH 103/	Philosophy of Religion/	
PH 104	Foundations of Moral Value	3
TH 141/	A Theology of the Catholic Social Vision/	
TH 151	The Catholic Commitment of Today's Filipino: A Synthesis	3
POS 100	Politics and Governance	3
LS 125	Strategic Management	3
QMT 129	Operations Research Modeling Application	3
POM 105	Intermediate Production Operations Management	3
<i>Total:</i>		18

### Second Semester

PH 103/	Philosophy of Religion/	
PH 104	Foundations of Moral Value	3
TH 141/	A Theology of the Catholic Social Vision/	
TH 151	The Catholic Commitment of Today's Filipino: A Synthesis	3
HI 166	Philippine History	3
EC 121	Development Economics	3
MAJOR ELECTIVE		3
FREE ELECTIVE		3
<i>Total:</i>		18

\* ME Freshmen who started with MA 21 may take a free elective subject to consultation with the Program Director.

\*\* Advanced-placement students are to see their year advisor or Program Director to coordinate the schedule of courses.

Total Number of Academic Units: 152  
Curriculum Effective Freshman Batch SY 2006-2007

## BACHELOR OF SCIENCE IN MANAGEMENT OF APPLIED CHEMISTRY

BS Management of Applied Chemistry is a science-based entrepreneurship program with a strong hands-on and project orientation. Chemistry is taught from a more applied perspective, and the accompanying laboratory work will focus on more practical approaches. The Industrial Chemistry course, designed specifically for students enrolled in this program, will expose MAC majors to basic manufacturing processes and operations of chemistry-based industrial concerns, using a combination of lectures and plant visits. Students are also given hands-on experience in the production of a wide range of simple chemical-based products, such as paints, essential oils, and food flavorings.



The centerpiece of the program is a sequence of courses that requires students to use market research to identify unfilled product niches in the market, go to the laboratory to design the product that will fill this niche, and then create and execute a business plan to launch and market this new product.

The training provided by this program will benefit students who would like to start up their own small-scale manufacturing ventures or work in businesses dealing with chemistry-based products such as pharmaceuticals, processed foods, rubber, personal care products and plastics.

### FIRST YEAR

<u>First Semester</u>		<u>Units</u>	<u>Second Semester</u>		<u>Units</u>
EN 11	Communication in English I	3	EN 12	Communication in English II	3
LIT 13	Introduction to Fiction	3	LIT 14	Introduction to Poetry and Drama	3
MA 11	Modern Mathematics I	3	MA 19	Applied Calculus for Business	6
FIL 11	Sining ng Pakikipagtalastasan sa Filipino I	3	FIL 12	Sining ng Pakikipagtalastasan sa Filipino II	3
CH 7	General Chemistry, Lecture	3	CH 35.5	Quantitative Analysis, Lecture	3
CH 8	General Chemistry, Laboratory	2	CH 36.5	Quantitative Analysis, Laboratory	2
PE 1	Physical Education	(2)	PE 2	Physical Education	(2)
INTAC 1	Introduction to Ateneo Culture and Traditions	(0)	INTAC 2	Introduction to Ateneo Culture and Traditions	(0)
		<i>Total:</i> 17			<i>Total:</i> 20

### SECOND YEAR

<u>Summer</u>		<u>Units</u>			
CH 25.5	Applied Organic Chemistry I, Lecture	3			
FLC 1	Foreign Language and Culture I	3			
ITM 11	Basic Information Technology Applications in Business	(0)			
		<i>Total:</i> 6			
<u>First Semester</u>		<u>Units</u>	<u>Second Semester</u>		<u>Units</u>
HI 16/HI 18	Asian History/Western History	3	ACC 15	Fundamentals of Accounting	3
TH 121	An Introduction to Doing a Catholic Theology	3	SCI 10	Science and Society	3
CH 26.5	Applied Organic Chemistry I, Laboratory	2	LS 10	Philippine Business and Economic Environment	2
CH 27.5	Applied Organic Chemistry II, Lecture	3	FIL 14	Panitikan ng Pilipinas	3
QMT 11	Business Statistics	3	HI 165	Rizal and the Emergence of Philippine Nation	3
LAW 11	Essentials of Philippine Business Law	3	SA 21	Introduction to Sociology and Anthropology	3
PSY 101	General Psychology	3	PE 4	Physical Education	(2)
PE 3	Physical Education	(2)	NSTP 2	National Service Training Program	(3)
NSTP 1	National Service Training Program	(3)			<i>Total:</i> 17
		<i>Total:</i> 20			

### THIRD YEAR

<u>Summer</u>		<u>Units</u>			
CH 61	Industrial Chemical Reactions & Processes, Lecture	3			
CH 62	Industrial Chemical Reactions & Processes, Laboratory	2			
		<i>Total:</i> 5			
<u>First Semester</u>		<u>Units</u>	<u>Second Semester</u>		<u>Units</u>
PH 101	Philosophy of the Human Person I	3	PH 102	Philosophy of the Human Person II	3
TH 131	Marriage, Family Life and Human Sexuality in a Catholic Perspective	3	CH 47.5	Applied Physical Chemistry II, Lecture	3
CH 45.5	Applied Physical Chemistry I, Lecture	3	CH 135.5	Modern Analytical Chemistry, Lecture	3
CH 46.5	Applied Physical Chemistry I, Laboratory	2	FIN 103	Principles of Finance	3
ACC 101	Cost Accounting	3	MKT 102	Opportunities Seeking and Marketing Analysis	5
POM 102	Fundamentals of Production and Operations Management	3	MKT 199D	Special Topics in Marketing: Business Venture Lab 2	3
LS 100	Organizational Behavior	3			<i>Total:</i> 20
		<i>Total:</i> 20			

### FOURTH YEAR

<u>Summer</u>		<u>Units</u>			
EC 102	Basic Economics, Agrarian Reform and Taxation	3			
HI 166	Philippine History	3			
		<i>Total:</i> 6			
<u>First Semester</u>		<u>Units</u>	<u>Second Semester</u>		<u>Units</u>
PH 103/PH 104	Philosophy of Religion/Foundations of Moral Value	3	PH 103/PH 104	Philosophy of Religion/Foundations of Moral Value	3
TH 141/TH 151	A Theology of the Catholic Social Vision/The Catholic Commitment of		TH 141/TH 151	A Theology of the Catholic Social Vision/The Catholic Commitment of	

	Today's Filipino: A Synthesis	3
LS 125	Strategic Management	3
MKT 199F	Special Topics in Marketing: Business Development Lab 1	3
FREE ELECTIVE		3

Total: 15

	Today's Filipino: A Synthesis	3
POS 100	Politics and Governance	3
MKT 199I	Special Topics in Marketing: Start-up Operations Lab 1	3
FREE ELECTIVE		3

Total: 15

Total Number of Academic Units: 161  
Curriculum Effective Freshman Batch SY 2011-2012

## BACHELOR OF SCIENCE IN MANAGEMENT, MAJOR IN COMMUNICATIONS TECHNOLOGY MANAGEMENT

BS Management, major in Communications Technology Management is an interdisciplinary program that pulls together courses from the fields of Management, Mass Communication, Telecommunications and Computer Science, to create a multi-faceted curriculum that develops business leaders and managers especially equipped for the rapidly changing Communications industry: professionals who are conversant with the creative processes that drive the industry, as well as the convergent technologies that are transforming it.

Students enrolled in this program will be exposed to both the communications theories and the technological tools that are driving today's information society. The program's flexible design allows students to pursue any one of the three tracks that have been built into the program: telecommunications, media management, and marketing communications. Conversely, students may also opt to take a combination of courses offered under the different tracks, rather than to restrict themselves to any one track in particular.

The program curriculum is heavily project-oriented, and helps the students to develop a strong team orientation that is especially appropriate to the industry. Comtech is especially designed to increase the pool of creative, business-oriented, and tech-savvy entrepreneurs and leaders of organizations that are engaged in marketing, advertising, public relations, media, and telecommunications.

### FIRST YEAR

<u>First Semester</u>		<u>Units</u>	<u>Second Semester</u>		<u>Units</u>
EN 11	Communication in English I	3	EN 12	Communication in English II	3
LIT 13	Introduction to Fiction	3	LIT 14	Introduction to Poetry and Drama	3
MA 11	Modern Mathematics I	3	MA 19	Applied Calculus for Business	6
FIL 11	Sining ng Pakikipagtalastasan sa Filipino I	3	FIL 12	Sining ng Pakikipagtalastasan sa Filipino II	3
NATSCI 1A	Natural Science, Lecture	3	NATSCI 2A	Natural Science, Lecture	3
NATSCI 1B	Natural Science, Laboratory	1	NATSCI 2B	Natural Science, Laboratory	1
PE 1	Physical Education	(2)	PE 2	Physical Education	(2)
INTAC 1	Introduction to Ateneo Culture and Traditions	(0)	INTAC 2	Introduction to Ateneo Culture and Traditions	(0)
		Total: 16			Total: 19

### SECOND YEAR

<u>Summer</u>		<u>Units</u>
ITM 11	Basic Information Technology Applications in Business	(0)
		Total: 0

<u>First Semester</u>		<u>Units</u>	<u>Second Semester</u>		<u>Units</u>
ACC 15	Fundamentals of Accounting	3	COM 12	Information Society	3
COM 11	Introduction to Communication and Communication Theory	3	LS 10	Philippine Business and Economic Environment	2
LAW 11	Essentials of Philippine Business Law	3	FIL 14	Panitikan ng Pilipinas	3
EC 102	Basic Economics, Agrarian Reform and Taxation	3	HI 16/HI 18	Asian History/Western History	3
FLC	Foreign Language and Culture	3	PSY 101	General Psychology	3
SA 21	Introduction to Sociology and Anthropology	3	SCI 10	Science and Society	3
PE 3	Physical Education	(2)	TH 121	An Introduction to Doing a Catholic Theology	3
NSTP 1	National Service Training Program	(3)	PE 4	Physical Education	(2)
		Total: 18	NSTP 2	National Service Training Program	(3)
					Total: 20

### THIRD YEAR

<u>Summer</u>		<u>Units</u>
HI 165	Rizal and the Emergence of the Philippine Nation	3
QMT 12	Business Statistics and Research Methods	3
<i>Total:</i>		6

<u>First Semester</u>		<u>Units</u>	<u>Second Semester</u>		<u>Units</u>
PH 101	Philosophy of the Human Person I	3	PH 102	Philosophy of the Human Person II	3
TH 131	Marriage, Family Life and Human Sexuality in a Catholic Perspective	3	CS 175	Introduction to Multimedia Systems	3
MKT 101	Principles of Marketing	3	FIN 102	Financial Planning	3
CS 30	Introduction to Information Technology	5	COM 14	Visual Thinking for Communication Managers	3
HI 166	Philippine History	3	POM 102	Fundamentals of Production and Operations Management	3
<i>Total:</i>		17	MAJOR ELECTIVE		3
			<i>Total:</i>		18

### FOURTH YEAR

<u>Summer</u>		<u>Units</u>
EC 111	Intermediate Microeconomic Theory	3
POS 100	Politics and Governance	3
<i>Total:</i>		6

<u>First Semester</u>		<u>Units</u>	<u>Second Semester</u>		<u>Units</u>
PH 103/	Philosophy of Religion/		PH 103/	Philosophy of Religion/	
PH 104	Foundations of Moral Value	3	PH 104	Foundations of Moral Value	3
TH 141/	A Theology of the Catholic Social Vision/		TH 141/	A Theology of the Catholic Social Vision/	
TH 151	The Catholic Commitment of Today's Filipino: A Synthesis	3	TH 151	The Catholic Commitment of Today's Filipino: A Synthesis	3
LS 100	Organizational Behavior	3	CTK 41	Integrative Project	3
MAJOR ELECTIVE		3	LS 125	Strategic Management	3
COMTECH ELECTIVE		3	COMTECH ELECTIVE		3
FREE ELECTIVE		3	FREE ELECTIVE		3
<i>Total:</i>		18	<i>Total:</i>		18

Total Number of Academic Units: 156  
Curriculum Effective Freshman Batch SY 2002-2003

## BACHELOR OF SCIENCE IN MANAGEMENT, MAJOR IN LEGAL MANAGEMENT

The BS Management, major in Legal Management, or LM program, is designed to create managers and entrepreneurs with a working knowledge of the legal environment within which all enterprises must operate. On top of the regular business curriculum is added a law curriculum which covers all the major components of law that are encountered in the conduct of business: taxation, labor law, partnership and corporation law, laws on intellectual property.

The course is not designed to be a preparation for law school, but has proven to be an excellent pre-law program, nevertheless. The exposure to law subjects at the undergraduate level can help these students make a final determination as to their preparedness and interest in pursuing the legal profession.

Legal Management is designed primarily to be an entrepreneurial program, giving students the theoretical as well the practical tools to effectively run an enterprise. The law subjects can provide LM graduates with a competitive edge in the increasingly legalistic business environment. The effective integration of both business and law courses with the liberal arts core curriculum of the Ateneo creates a holistic program that produces high-impact leaders for business, entrepreneurship and the legal profession.

### FIRST YEAR

<u>First Semester</u>		<u>Units</u>	<u>Second Semester</u>		<u>Units</u>
EN 11	Communication in English I	3	EN 12	Communication in English II	3
LIT 13	Introduction to Fiction	3	LIT 14	Introduction to Poetry and Drama	3
MA 11	Modern Mathematics I	3	MA 19	Applied Calculus for Business	6
FIL 11	Sining ng Pakikipagtalastasan sa Filipino I	3	FIL 12	Sining ng Pakikipagtalastasan sa Filipino II	3

NATSCI 1A	Natural Science, Lecture	3	NATSCI 2A	Natural Science, Lecture	3
NATSCI 1B	Natural Science, Laboratory	1	NATSCI 2B	Natural Science, Laboratory	1
PE 1	Physical Education	(2)	PE 2	Physical Education	(2)
INTAC 1	Introduction to Ateneo Culture and Traditions	(0)	INTAC 2	Introduction to Ateneo Culture and Traditions	(0)
		<i>Total:</i> 16			<i>Total:</i> 19

## SECOND YEAR

### Summer

ITM 11	Basic Information Technology Applications in Business	(0)
		<i>Total:</i> 0

<u>First Semester</u>		<u>Units</u>	<u>Second Semester</u>		<u>Units</u>
SCI 10	Science and Society	3	FLC	Foreign Language and Culture	3
FIL 14	Panitikan ng Pilipinas	3	SA 21	Introduction to Sociology and Anthropology	3
PSY 101	General Psychology	3	TH 121	An Introduction to Doing a Catholic Theology	3
HI 16/HI 18	Asian History/Western History	3	EC 102	Basic Economics, Agrarian Reform and Taxation	3
ACC 10	Principles of Accounting	3	LS 10	Philippine Business and Economic Environment	2
LAW 21	Obligations and Contracts	3	ACC 30	Introduction to Managerial Accounting	3
PE 3	Physical Education	(2)	LAW 22	Law on Business Organizations	
NSTP 1	National Service Training Program	(3)		and Intellectual Properties	3
		Total: 18	PE 4	Physical Education	(2)
			NSTP 2	National Service Training Program	(3)
					Total: 20

## THIRD YEAR

### Summer

EC 111	Intermediate Microeconomic Theory	3
HI 165	Rizal and the Emergence of the Philippine Nation	3
		<i>Total:</i> 6

<u>First Semester</u>		<u>Units</u>	<u>Second Semester</u>		<u>Units</u>
LAW 123	Special Contracts and Negotiable Instruments	3	FIN 103	Principles of Finance	3
LAW 124	Taxation	3	PH 102	Philosophy of the Human Person II	3
MKT 101	Principles of Marketing	3	HI 166	Philippine History	3
PH 101	Philosophy of the Human Person I	3	LAW 125	Labor Law and Social Legislation	3
POM 104	Quantitative Methods and Operations/ Production Applications	5	LS 100	Organizational Behavior	3
		<i>Total:</i> 17	TH 131	Marriage, Family Life and Human Sexuality in a Catholic Perspective	3
					<i>Total:</i> 18

## FOURTH YEAR

<u>First Semester</u>		<u>Units</u>	<u>Second Semester</u>		<u>Units</u>
LS 126	Strategy Formulation	3	LS 127	Strategy Implementation	3
PH 103/	Philosophy of Religion/	3	PH 103/	Philosophy of Religion/	3
PH 104	Foundations of Moral Value		PH 104	Foundations of Moral Value	
TH 141/	A Theology of the Catholic Social Vision/		TH 141/	A Theology of the Catholic Social Vision/	
TH 151	The Catholic Commitment of		TH 151	The Catholic Commitment of	
	Today's Filipino: A Synthesis	3		Today's Filipino: A Synthesis	3
POS 100	Politics and Governance	3	MGT/LAW ELECTIVE		3
MGT/LAW ELECTIVE		3	MGT/LAW ELECTIVE		3
FREE ELECTIVE		3	FREE ELECTIVE		3
		Total: 18			Total: 18

Total Number of Academic Units: 150  
Curriculum Effective Freshman Batch SY 2002-2003

## BACHELOR OF SCIENCE IN INFORMATION TECHNOLOGY ENTREPRENEURSHIP

The B.S. in Information Technology Entrepreneurship, or the I.T.E. program, is designed to create a structured and yet vibrant environment for students to become the next generation of high-impact entrepreneurs, turning their I.T. based business ideas into actual start-up ventures.

The program curriculum begins with a strong foundation in I.T. fundamentals that will enable students to turn their I.T.-based product idea into a working prototype, and adds to this an overlay of management courses and a business incubation program that will help them then bring their product to market. Students enrolled in this program may elect to pursue either of two I.T. tracks, Games Development or Applications Development, to serve as the platform for their new business venture. Students who successfully complete the program will not be looking for new

jobs when they graduate: they will be offering jobs to other young graduates looking to become part of the next-generation business success story!

### FIRST YEAR

<u>First Semester</u>	<u>Units</u>	<u>Second Semester</u>	<u>Units</u>
EN 11 Communication in English I	3	EN 12 Communication in English II	3
LIT 13 Introduction to Fiction	3	LIT 14 Introduction to Poetry and Drama	3
FIL 11 Sining ng Pakikipagtalastasan sa Filipino I	3	NATSCI 1A Natural Science, Lecture	3
MA 18 A Principles of Modern Mathematics	3	NATSCI 1B Natural Science, Laboratory	1
MA 18 B Principles of Modern Mathematics II	3	MA 20.2 Calculus for Computer Science	6
CS 21 A Introduction to Computing I	3	CS 21 B Introduction to Computing II	3
PE 1 Physical Education	(2)	PE 2 Physical Education	(2)
INTAC 1 Introduction to Ateneo Culture and Traditions	(0)	INTAC 2 Introduction to Ateneo Culture and Traditions	(0)
<b>Total:</b>	<b>18</b>	<b>Total:</b>	<b>19</b>

### SECOND YEAR

<u>Summer</u>	<u>Units</u>
PSY 101 General Psychology	3
SA 21 Introduction to Sociology and Anthropology	3
<b>Total:</b>	<b>6</b>

<u>First Semester</u>	<u>Units</u>	<u>Second Semester</u>	<u>Units</u>
FIL 12 Sining ng Pakikipagtalastasan sa Filipino II	3	FIL 14 Panitikan ng Pilipinas	3
NATSCI 2A Natural Science, Lecture	3	SCI 10 Science and Society	3
NATSCI 2B Natural Science, Laboratory	1	HI 16/HI 18 Asian History/Western History	3
ACC 15 Fundamentals of Accounting	3	TH 121 An Introduction to Doing a Catholic Theology	3
LS 10 Philippine Business & Economic Environment	2	MKT 101 Principles of Marketing	3
QMT 11 Business Statistics	3	MIS 122 Database Systems Implementation	3
ITE 100.1 An Introduction to Technology		PE 4 Physical Education	(2)
Entrepreneurship, Lecture	2	NSTP 2 National Service Training Program	(3)
ITE 100.2 An Introduction to Technology		<b>Total:</b>	<b>18</b>
Entrepreneurship, Laboratory	1		
PE 3 Physical Education	(2)		
NSTP 1 National Service Training Program	(3)		
<b>Total:</b>	<b>18</b>		

### THIRD YEAR

<u>Summer</u>	<u>Units</u>
FLC 1 Foreign Language and Culture	3
Focus Area 1 Foundational Design Course	3
<b>Total:</b>	<b>6</b>

<u>First Semester</u>	<u>Units</u>	<u>Second Semester</u>	<u>Units</u>
PH 101 Philosophy of the Human Person I	3	PH 102 Philosophy of the Human Person II	3
EC 102 Basic Economics, Agrarian Reform & Taxation	3	TH 131 Marriage, Family Life and Human Sexuality in a Catholic Perspective	3
LAW 11 Essentials of Philippine Business Law	3	EC 111 Intermediate Microeconomic Theory	3
FIN 160 Entrepreneurial Finance	3	POM 199.6 Special Topics in Production and Operations Management: Service Management	3
Focus Area 2 Foundational Development Course	3	ITE 20 Technology Venture Laboratory I	2
ITE 110 Technology Venture Planning	3	Focus Area 3 Mobile Development/Multimedia/E-commerce/Enterprise Systems	3
<b>Total:</b>	<b>18</b>	Focus Area 4 Mobile Development/Multimedia/E-commerce/Enterprise Systems	3
		<b>Total:</b>	<b>20</b>

### FOURTH YEAR

<u>Summer</u>	<u>Units</u>
POS 100 Politics and Governance	3
<b>Total:</b>	<b>3</b>

<u>First Semester</u>	<u>Units</u>	<u>Second Semester</u>	<u>Units</u>
PH 103/ PH 104 Philosophy of Religion/ Foundations of Moral Value	3	PH 103/ PH 104 Philosophy of Religion/ Foundations of Moral Value	3
TH 141/ TH 151 A Theology of the Catholic Social Vision/ The Catholic Commitment of Today's Filipino: A Synthesis	3	TH 141/ TH 151 A Theology of the Catholic Social Vision/ The Catholic Commitment of Today's Filipino: A Synthesis	3
HI 165 Rizal and the Emergence of the Philippine Nation	3	HI 166 Philippine History	3
LS 100 Organizational Behavior	3	LS 125 Strategic Management	3
ITE 130 Technology Venture Start-up I	3	ITE 150 Technology Venture Implementation I	3
FREE ELECTIVE	3	FREE ELECTIVE	3
<b>Total:</b>	<b>18</b>	<b>Total:</b>	<b>18</b>

Total Number of Academic Units: 162  
Curriculum Effective Freshman Batch SY 2012-2013

## **MINOR IN ENTERPRISE DEVELOPMENT/ School of Management Business Accelerator (SOMBA) Program**

The Minor in Enterprise Development is open to all senior students of the Loyola Schools who are interested in developing a career in Entrepreneurship. Junior students are considered on a case-to-case basis. The program provides a practical and experiential vehicle to incubate and nurture business ideas to a more mature stage. This is done through direct hands-on learning under the guidance of a mentor.

The program will guide students to progress their accepted business proposals to market-ready products or services. By the end of the program, the student groups shall have been incorporated and registered formally with the regulatory offices of the government and shall be ready to proceed as regular companies in the marketplace.

There are no pre-requisite courses required of the minor program. However, non-management (or non-JGSOM) students are encouraged to find other co-students who have had the requisite background in basic business skills like Accounting, Finance and Marketing; and/or who possess talents, capabilities and skills to move the business project forward, such as creativity, leadership, access to sources of financing, people handling, etc.

Students take the 18 units for the minor program over three consecutive terms in one school year. Students must take at least a 3-unit course in the summer term and 6 units each in the first and second semesters to qualify for the minor. The following are the required courses under the program:

<u>Summer</u>		
MKT 199C	STIM: Business Venture Lab 1	3 units
MKT 199D	STIM: Business Venture Lab 2	3 units
<u>First Semester</u>		
MKT 199F	STIM: Business Development Lab 1	3 units
MKT 199G	STIM: Business Development Lab 2	3 units
<u>Second Semester</u>		
MKT 199I	STIM: Start-Up Operations Lab 1	3 units
MKT 199J	STIM: Start-Up Operations Lab 2	3 units

To obtain the Minor in Enterprise Development, students must earn a grade of at least C+ in either MKT 199C or MKT 199D and an average grade of at least C+ in the 12 units taken in the next two semesters, i.e., MKT 199F and MKT 199G, MKT 199I and MKT 199J. Students must also belong to a group whose company has been officially incorporated with the Philippine Securities and Exchange Commission or registered with the Department of Trade and Industry. Their company must have generated revenues by successfully selling or trading its product/s and/or service/s to the public for at least one month prior to the end of the second semester.



Room 302 John Gokongwei School of Management Building  
(632) 426-6001 loc. 5510/5511  
fax: (632) 426-6076

# FINANCE AND ACCOUNTING

**Michael C. Tan**  
*Chair*

**Faculty  
Professor**  
Darwin D. Yu

**Assistant Professor**  
Venus C. Ibarra  
Alice Ann M. Parlan

**Instructors**  
Raleo D. Belandres Jr.  
Larry Andre T. Cajucom  
Maurice D. Lim  
Dennis A. Sandoval  
Siegfried Kiel B. Sañez  
Marion Lara L. Tan  
Aldo Zelig U. Tong  
Lester C. Yee

**Assistant Instructors**  
Jeremiah Johnman R. Abesamis  
Sean Rich U. Uy  
Erich Bryan O. Vicerra

**Lecturers**  
Christine Winchell D. Aw • Ma. Antonia F. Nazario-  
Bacabac • Jedidah R. Baguio • Meriel S. Balcos •  
Maria Jennifer Z. Barreto • Roberto B. Bayot • Allan  
Arthur L. Cabrera • Mario G. Cachero • John Harley  
Niño T. Chan • Jonathan David S. Chu • James N.  
Cruz • Erlces John L. Cuizon • Benel P. Laguna • Riche  
Levin T. Lim • Frederick R. Mariano • Dennis A.  
Sandoval • Mark Steven C. Sioco • Enrique Jaime S.  
Soriano • Stella Denise C. Sy • Aaron Jacob G. Tan •  
Eldridge Myles L. Tan • Navin I. Uttamchandani •  
Mark Anthony L. Yu

The Department of Finance and Accounting aims to produce graduates who are equipped in management accounting, who are able to develop skills in budgeting, product and service costing, control and performance evaluation, and strategic cost management, and who will become value added members of the management team, responsible for creating information vital for enhancing operational excellence.



## MINOR IN FINANCIAL MANAGEMENT

The Minor in Financial Management is intended to provide depth and additional exposure to students who wish to pursue careers in corporate finance, investment, or banking with an in-depth exposure to topics in Finance and Accounting.

Candidates must be enrolled in any of the seven JGSOM major programs or AB Management Economics. The program is open to third year students with a grade of at least C+ in:

FIN 102	Financial Accounting	<i>(for Comtech)</i>
FIN 103	Principles of Finance	<i>(for Mgt, Mgt-H, LM, MAC and MEco)</i>
FIN 105	Financial Management	<i>(for ME)</i>
FIN 160	Entrepreneurial Finance	<i>(for ITE)</i>

To earn the certificate, students must obtain a grade of at least C+, with no grade lower than C, in the five additional finance and accounting courses taken under the minor program. The following are the course requirements for the program:

FIN 120	Financial Statement and Credit Analysis		3 units
FIN 121	Investment Management	OR	3 units
FIN 122	Investment Banking		3 units
FIN 130	Banking and Other Financial Institutions		3 units

Any two courses from the following list of electives upon the approval of the Program Director:

ACC 131	Tax Accounting	3 units
ACC 151	Controllership	3 units
ACC 152	Advanced Managerial Accounting	3 units
ACC 161	Accounting Information Systems	3 units
ACC 198	Seminar in Accounting	3 units
ACC 199	Special Topics in Accounting	3 units
FIN 123	Investment Analysis	3 units
FIN 124	Equity Investment Analysis	3 units
FIN 129	Special Topics in Investment Analysis	3 units
FIN 131	Current Issues in Commercial Banking	3 units
FIN 139	Special Topics in Banking	3 units
FIN 150	Advanced Finance	3 units
FIN 170	International Financial Management	3 units
FIN 171	International Finance and Foreign Exchange Market	3 units
FIN 198	Seminar in Finance	3 units
FIN 199	Special Topics in Finance	3 units

## COURSE OFFERINGS

### **ACC 10 PRINCIPLES OF ACCOUNTING**

#### **3 units**

This course introduces the accounting principles, concepts, and procedures needed in bookkeeping and financial statement presentations of single proprietorships, partnerships, and corporations engaged in service, merchandising, or manufacturing operations. Emphasis is on the principles that govern the construction and operation of accounts.

### **ACC 15 FUNDAMENTALS OF ACCOUNTING**

#### **3 units**

This course introduces the accounting concepts, principles, and procedures needed in the bookkeeping and financial presentation of single proprietorships and corporations engaged in service and merchandising operations. Emphasis is placed upon the principles that govern the construction of accounts.

### **ACC 20 FINANCIAL ACCOUNTING**

#### **3 units**

This course deals with basic concepts of accounting. Topics include the accounting cycle using the double entry system, accounting transactions, and T-accounts; posting ledgers, trial balances, adjusting entries, and closing entries; construction of financial statements; and business cycles in relation to the manual accounting system.

### **ACC 30 INTRODUCTION TO MANAGERIAL ACCOUNTING**

#### **3 units**

#### **Pre-requisite: ACC 10**

This is a course on the more intricate phases of accounting, relating accounting data more closely to the requirements of management, with instruction on the manner of generating, organizing, and presenting such data, to enable the user to draw conclusions from analysis of accounting data.

### **ACC 35 MANAGERIAL ACCOUNTING**

#### **3 units**

#### **Pre-requisite: ACC 20**

This course is an introduction to the vital role of management accounting information in organizations. The course covers cost accounting, differential accounting, and responsibility accounting, that includes performance measurement and evaluation, quality control, responsibility centers, and management accounting systems.

### **ACC 101 COST ACCOUNTING**

#### **3 units**

#### **Pre-requisite: ACC 30**

This course is designed as introduction to managerial and cost accounting, with special emphasis on its application to managerial decision-making for strategic purpose. Areas covered would include cost behavior, strategy in the context of managing financial decisions, and the nature of the interaction

between strategic planning and managerial control.

### **ACC 111 RESOURCE MANAGEMENT**

#### **3 units**

This is an introduction to the fundamentals of resource management in health projects and the various issues that arise as health projects go through their life cycles. The course uses Activity-Based Costing (ABC) and management systems as the framework.

### **ACC 131 TAX ACCOUNTING**

#### **3 units**

#### **Pre-requisite: ACC 10 or ACC 15 or ACC 20**

This is a course on the Philippine tax system. Topics include the role of taxes in business and investment decisions and its implication across all taxpaying activities. Emphasis is on income taxes and business taxes in the Philippines.

### **ACC 151 CONTROLLERSHIP**

#### **3 units**

#### **Pre-requisite: ACC 101 or ACC 35**

This course studies the financial control function of accounting in an organization, including property control responsibility and internal audit functions. Emphasis is on tools that assist operating managers in their day-to-day financial decisions and in their relationship with investors, creditors, and some government agencies.

**ACC 152**  
**ADVANCED MANAGERIAL ACCOUNTING**

**3 units**

**Pre-requisite:** ACC 35  
or ACC 101

This course studies the role of management accounting systems in aiding managers of complex hierarchical organizations in planning and controlling their operations. Emphasis is on the challenges and opportunities of new information technology and new technology of modern operating and service processes.

**ACC 161**  
**ACCOUNTING INFORMATION SYSTEMS**

**3 units**

**Pre-requisite:** ACC 15  
or ACC 20 or ACC 30

This course studies the accounting system. Emphasis is on internal control and technology; integration of structural documentation, tools and techniques; and providing a balanced coverage of system, EDP controls, and auditing.

**ACC 191**  
**FINANCIAL REPORTING AND ANALYSIS**

**3 units**

**Pre-requisites:** ACC 15 or ACC 30

This course concentrates on the application of income taxes, leases and off-balance sheet financing, financial reporting quality, accounting shenanigans, analyst adjustments to reported financials.

**ACC 198**  
**SEMINAR IN ACCOUNTING**

**3 units**

**Pre-requisite:** ACC 35  
or ACC 101

This is a seminar on topics relevant in the preparation of students for their involvement in the Philippine business community. Topics include concepts related to accounting, special taxes, ethics in accounting and financial statement preparation, public-fiscal administration, and accounting record-keeping in accordance with government requirements.

**ACC 199**  
**SPECIAL TOPICS IN ACCOUNTING**

**3 units**

**Pre-requisite:** ACC 35  
or ACC 101

This course studies current issues in accounting. Topics may include accounting for mergers and consolidations, accounting for installment sales, consignments, EDP bookkeeping system, accounting for income taxes, design of management control systems, Kaizen costing systems, balanced scorecard, and activity-based costing system.

**FIN 101**  
**FUNDAMENTALS OF FINANCE**

**3 units**

**Pre-requisite:** ACC 15

This course is an introduction to the tools and techniques of financial management and their use and application to managerial decision making in an intuitive manner. Topics include financial statement analysis, cost of capital, and short-term and long-term capital management.

**FIN 102**  
**FINANCIAL PLANNING**

**3 units**

**Pre-requisite:** ACC 15

This course introduces the basic concepts and practices of finance, with emphasis on project assessment and financing. Topics include techniques in appraising the firm's financial situation, assessing its short-term and long-term financing needs, and developing packages for the optimal deployment of the firm's financial resources.

**FIN 103**  
**PRINCIPLES OF FINANCE**

**3 units**

**Pre-requisite:** ACC 30

This course covers relevant topics regarding theory-based and relevant understanding of financial decision-making. This course aims to introduce the students to the tools and techniques of financial management, and their use to managerial decision making.

**FIN 105**  
**FINANCIAL MANAGEMENT**

**3 units**

**Pre-requisite:** ACC 35

*Intended for Management Engineering majors. Students should be proficient in the use of electronic spreadsheets.*

This is a survey of modern corporate financial theory and policy, focusing on problems in modern portfolio theory and corporate asset and liability management. Topics include portfolio theory, risk management, capital budgeting, financial decisions, and corporate control transactions, emphasizing investment issues and corporate finance issues.

**FIN 120**  
**FINANCIAL STATEMENT**  
**AND CREDIT ANALYSIS**  
**3 units**

**Pre-requisite:** FIN 101 or  
FIN 102 or FIN 103 or FIN 105  
or FIN 160.

This course studies how banks and creditors examine the creditworthiness of potential/existing clients. Focus is on credit investigation, financial statement analyses, non-financial considerations, account monitoring, and the necessary preparation for a presentation before the Credit Committee.

**FIN 121**  
**INVESTMENT**  
**MANAGEMENT**  
**3 units**

**Pre-requisite:** FIN 101 or  
FIN 102 or FIN 103 or FIN 105  
or FIN 160.

This course discusses the general principles of investment, with emphasis on the sources of financial information or national selection of securities. Topics include methods of security analysis, mathematical aids in investment research, policies on investment funds; and operations of investment trust management.

**FIN 122**  
**INVESTMENT BANKING**  
**3 units**

**Pre-requisite:** FIN 101 or  
FIN 102 or FIN 103 or FIN 105  
or FIN 160.

This course introduces the theories and applications encountered by an investment banker, through financial case analysis and evaluation, and actual simulation of investment banking transactions. Topics

include financial advisory functions, processes that corporations undertake to issue securities, and investment criteria and corporate financing instruments.

**FIN 123**  
**INVESTMENT ANALYSIS**  
**3 units**

**Pre-requisite:** FIN 101 or  
FIN 102 or FIN 103 or FIN 105  
or FIN 160.

This course introduces financial asset investments, beginning with a review and general discussion of the economic foundations of businesses, and then focusing on equity investments, economic policies and tools that affect the business climate, fixed income investments and foreign exchange transactions, equity investments, and ethics.

**FIN 124**  
**EQUITY INVESTMENT**  
**ANALYSIS**  
**3 units**

**Pre-requisite:** ACC 15  
or ACC 20 or ACC 30

This course studies the dynamics of the stock market in general and the Philippine Stock Market. Topics include the kinds of stocks traded, the organizations and procedures involved in the consummation of a trade, and the theories and methods employed by traders in selecting stocks.

**FIN 129**  
**SPECIAL TOPICS IN**  
**INVESTMENT ANALYSIS**  
**3 units**

**Pre-requisite:** FIN 123  
This course studies special topics that include, but are not limited to, the functioning of the securities markets; speculative markets, such as options,

futures, and related financial contracts; techniques for the valuation of securities; and the management and control of portfolios of financial assets.

**FIN 130**  
**BANKING AND OTHER**  
**FINANCIAL INSTITUTIONS**  
**3 units**

**Pre-requisite:** FIN 101 or FIN  
102 or FIN 103 or FIN 105 or  
FIN 160.

This course studies the commercial and thrift banking industries and the securities and insurance industries.

**FIN 131**  
**CURRENT ISSUES IN**  
**COMMERCIAL BANKING**  
**3 units**

**Pre-requisite:** FIN 101 or FIN  
102 or FIN 103 or FIN 105 or  
FIN 160.

This course studies the various areas in commercial banking within the context of universal banks. Emphasis is on the leading foreign and local commercial banks, the Central Bank of the Philippines, and other government financial institutions. Topics include government regulations, monetary systems, and banking operations.

**FIN 139**  
**SPECIAL TOPICS IN**  
**BANKING**  
**3 units**

**Pre-requisite:** FIN 130

This course studies financial institutions, financial markets, and their relationship to public and management policies. Topics include market structure, profit strategies, relationship of commercial banks and other financial institutions, problems of asset and liability management, theory of interest

and asset prices, and credit risk analysis.

**FIN 150  
ADVANCED FINANCE**

**3 units**

**Pre-requisite: FIN 103  
or FIN 105**

This course studies the corporation, and the relationship of its financial system to other functions within the firm, with emphasis on financial policy- making through decisions made in asset allocation, capital structure mix, dividend policy, optimum debt levels, and capacity valuation in the market.

**FIN 160  
ENTREPRENEURIAL  
FINANCE**

**3 units**

**Pre-requisite: ACC 15 or ACC 30**

Entrepreneurial finance explores the process of raising capital and managing the capital in entrepreneurial new ventures. Topics include pro forma development and review, business valuation models, cash flow analysis, and raising capital from private investors, venture capitalists and banks.

**FIN 170  
INTERNATIONAL  
FINANCIAL MANAGEMENT**

**3 units**

**Pre-requisite: FIN 103  
or FIN 105**

This course studies financial decisions arising from developments in the international financial markets and exchange rates from the perspective of multinational enterprises. Topics include pricing in the foreign currency and Eurocurrency markets, use of forward exchange for

hedging, foreign currency financing, and exposure management.

**FIN 171  
INTERNATIONAL  
FINANCE AND FOREIGN  
EXCHANGE MARKET**

**3 units**

**Pre-requisite: FIN 170**

This course studies the basics of international treasury operations, international banking services, import-export documentation, including advanced financial management techniques such as leading and lagging, netting, hedging, and swaps; and an analysis of a developing country's external debts.

**FIN 198  
SEMINAR IN FINANCE**

**3 units**

**Pre-requisite: FIN 101 or  
FIN 102 or FIN 103 or FIN 105**

This seminar on current issues in finance discusses leasing, mergers, and acquisitions; corporate reorganizations; financial planning and working capital management; investment decision making under uncertainty; cost of capital; capital structure; pricing of selected financial instruments and corporate liabilities; dividend policy; corporate valuation; and taxation.

**FIN 199  
SPECIAL TOPICS IN  
FINANCE**

**3 units**

**Pre-requisite: FIN 101 or FIN 102 or FIN 103 or FIN 105 or  
FIN 160.**

This course is an introduction to particular areas in finance that are of current importance and relevance, and of general interest.

**FIN 199.1  
SPECIAL TOPICS IN  
FINANCE: PERSONAL  
FINANCE**

**3 units**

This course discusses personal financial management and the values and attitudes that determine one's spending and saving habits. Topics include good habits and practices concerned with financial literacy; practical, simple, and powerful financial management principles; and entrepreneurial concepts and their application in small-scale business opportunities.

**FIN 199.2  
SPECIAL TOPICS IN  
FINANCE: PERSONAL  
FINANCIAL  
ENTREPRENEURSHIP**

**3 units**

This course discusses personal financial entrepreneurship and the values and attitudes that determine one's spending and saving habits. Topics include good habits and practices concerned with financial literacy; practical, simple, and powerful financial management principles; and entrepreneurial concepts and their application in small-scale business opportunities.

**FIN 199.3  
SPECIAL TOPICS IN  
FINANCE: INTRODUCTION  
TO FINANCIAL  
RISK MANAGEMENT**

**3 units**

This course discusses basic concepts and applications of the principles of financial innovation through financial derivatives. Emphasis is on the role of financial derivatives in the global market and local economy. Topics include recent

developments in financial and  
commodity hedging, its  
application, and ethical issues.



Room 302 John Gokongwei School of Management Building  
(632) 426-6001 loc. 5521/5543  
Telefax: (632) 426-6076

# LEADERSHIP AND STRATEGY

**Manolet M. Siojo**  
*Chair*

**Faculty  
Professor**  
Ma. Assunta C. Cuyegkeng

**Associate Professor**  
Wilfred S. Manuela Jr.

**Assistant Professors**  
Roberto Martin N. Galang  
Maria Teresa L. Galura  
Hector P. Guballa  
Danilo M. Ocampo  
Fructuoso T. Sabug, Jr.

**Lecturers**  
Lilian Z. Avecilla • Michael Jonathan G. Biscocho •  
Carlos V. Cabochan • Marijo M. Caronoñgan •  
Raymond Christopher S. Castillo • Danica Regina G.  
Caynap • Jose Gerardo A. Cruz • Teresito S. David •  
Pamela Ann P. Da Silva • Emmanuel B. de Leon •  
Gilda Lourdes G. Del Rosario • Arnold F. de Vera •  
Dorelene V. Dimaunahan • Daniel Joseph M. Du •  
Victoria S. Endaya • Johnny U. Filart • Renato B.  
Garcia • Allan C. Ko • Justin Robert G. Ladaban •  
Nathaniel L. Lim • Maria Regina Lucia M. Lizares •  
Carmelo Francisco V. Lopez • Gabriel Ma. J. Lopez •  
Ramon L. Mayuga • Ricardo H. Mercado • Benjamin  
N. Mirasol • Rodolfo R. Narciso • Raquel C. Olpoc •  
Antonio C. Ongpin • Enrico C. Osi • Sheriben Marie  
M. Paraguas • George A. Pimentel • Genevieve Marie  
V. Puyat • David Allen Y. Puen • George Omer Denis  
S. Quitorian • Mariel Vincent A. Rapisura • Oliver  
Ryan H. Salva • Cherly J. Sanguyo • Joseph B. Server,  
Jr. • Manolet M. Siojo • J. Richard S. Soriano • Edwin  
S. Totanes • Arturo A. Valencia • Sherwin G. Yu •  
Timothy H. Zarco

The Department of Leadership and Strategy offers several courses on leadership and management, organizational communications and behavior, strategic human resource management, the local and global business and industry environment, strategy formulation and implementation, and other related subjects. The department seeks to help mold Ateneo management students to become exemplary corporate leaders and entrepreneurs who nurture a people-oriented culture, a principle-centered spirit, and a strategic global perspective rooted in the ASEAN and Philippine context.



## MINOR IN MANAGEMENT

Most Ateneo graduates find themselves holding positions of responsibility within organizations that they join regardless of the path they choose to pursue. They can more effectively manage teams and organizations that they lead through formal training in the various functional areas of management.

The Minor in Management is for students who are enrolled in a non-business course and would like to gain a working knowledge of the core management disciplines that can help them more effectively manage any organization.

All Loyola Schools undergraduate students may apply for this minor, except for those enrolled in any of the degree programs of the JGSOM, students pursuing the Business Track of AB European Studies or AB Interdisciplinary Studies, and those enrolled in AB Management Economics.

All candidates must demonstrate the same computer proficiency required of all JGSOM students, by either passing the computer proficiency examination administered by the QMIT department or enrolling in and passing ITM 11 (Basic Information Technology Applications in Business).

To obtain the Certificate of Minor, candidates must earn at least 2.00 grade point average for the 9 units of courses required for the Minor (ACC 15, FIN 101 and MKT 101), and at least 2.50 grade point average for the total of 15 units to be credited for the Minor.

ACC 15	Fundamentals of Accounting	3 units
FIN 101	Fundamentals of Finance	3 units
MKT 101	Principles of Marketing	3 units
Two Management electives		6 units

Any course offered by the JGSOM's Marketing and Law, Leadership and Strategy, Finance and Accounting, or Quantitative Methods and Information Technology Departments may be taken as a management elective, as long as the pre-requisite requirements are fulfilled and the course is not required for the completion of their degree program.

## MINOR IN INTERNATIONAL BUSINESS

The Minor in International Business provides an overview of the nature and intricacies of international business through course work in regional- and global-oriented courses in Marketing, Strategy, Finance, Economics, Law, and Culture. The program introduces students to transnational and cross-cultural tools and skills needed to successfully conduct business in an increasingly international setting toward developing a competent global executive.

The program is open to Loyola Schools third year students enrolled in one of the six JGSOM major programs, or AB Management Economics students with a grade of at least B in any of the following:

MKT 101	Principles of Marketing	3 units
MKT 102	Opportunity-Seeking and Marketing Analysis	3 units
MKT 103	Principles of Marketing and Marketing Research	3 units

LS 10	Philippine Business and Economic Environment	2 units
-------	--	---------

Students must earn an average grade of at least 3.00 in the five courses taken under this program, with no grade lower than C. The following are the required courses:

MKT 171	International Business Opportunities	3 units
LS 142	Cross-Cultural Communication	3 units
LS 170	Strategies in the Global Business Environment	3 units

Students take any two courses from the following list of electives:

MKT 172	International Marketing	3 units
MKT 173	Export Marketing	3 units
MKT 175	Understanding International Trade and Competition	3 units
LS 172	Strategic Issues in Doing Business in China	3 units
LS 173	Strategic Issues in Doing Business in Japan	3 units
FIN 170	International Financial Management	3 units
FIN 171	International Finance and Foreign Exchange Markets	3 units
POS 132	International Law	3 units
EC 132	International Economics	3 units
EU 22	Policies and Institutions of the European Union	3 units
EU 131	European Business Environment	3 units
EU 132	European Marketing and Business Strategy	3 units
EU 133	Southeast Asian and European Business Relations	3 units
EU 151	Economics of European Integration	3 units

### **MINOR IN STRATEGIC HUMAN RESOURCES MANAGEMENT**

The Minor in Strategic Human Resources Management is designed to fully understand the multiple roles and responsibilities of the HR professional in today's world in the management of the firm's infrastructure, employee contribution, and transformation and change. The program aims to develop and enhance the skills required of competent HR professionals including strategic, creative, and systems thinking approaches to human resource capital management, leadership skills in all four levels – personal, interpersonal, managerial and organizational, and multidisciplinary capabilities in the management of 21<sup>st</sup> century organizations.

The program is open to Loyola Schools third year students who are enrolled in any of the six JGSOM major programs, AB European Studies, or AB Management Economics provided they have taken at least three units of basic Accounting, with a grade of at least B in any of the following courses:

LS 10	Philippine Business and Economic Environment	2 units
LS 11	Principles of Management	3 units
LS 100	Organizational Behavior	3 units

Students must obtain an average grade of 3.00 in the five courses taken under this program, with no grade lower than C. The following are the required courses:

LS 129	Work Practicum and Career Development	3 units
LS 135	Strategic Human Capital Management	3 units
LS 136	Strategic Human Resources Development	3 units

Any two of the following courses:

LS 130	Leadership in the 21 <sup>st</sup> Century	3 units
LS 132	Leading and Managing Change	3 units
LS 137	Organizational Development	3 units
LS 139	Business Ethics and Social Responsibility	3 units
LS 142	Cross-Cultural Communication	3 units
LS 160	Knowledge Management	3 units

\* Any Law or Psychology elective focusing on Philippine Labor Laws or Industrial Relations and Organization Theory as designated by the Department Chairperson or Minor Program Director.

### **MINOR IN SUSTAINABILITY**

Despite the Philippines' share of poverty and disaster, we have not been able to systematically develop a connected understanding of the complex social and natural environments among members of our society. This kind of understanding should not only encompass cognitive and affective aspects but also lead to behavioral change. This should also use multi- and interdisciplinary perspectives, specifically those of systems thinking and sustainable development.

As more organizations move toward an acceptance of sustainability models, our students need to be equipped with the lenses, frameworks, tools, and methodologies that can be applied in various fields and professions.

The graduate of the Minor in Sustainability should be able to demonstrate the following program outcomes:

- To analyze problems and issues using the perspectives of systems thinking and sustainable development, particularly as they are applied to environment management and disaster risk reduction
- To develop multi- and interdisciplinary solutions to issues such as inclusive development, corporate sustainability, governance, and sustainable mobility
- To develop tools and competencies that may be required by new situations and contexts

### **Curriculum**

The pre-requisite for the Minor is ES 10/11 (for non-science majors) or 5 units of natural science (for science majors).

There are three 3-unit core courses, and two 3-unit electives for a total of 15 units. The core courses are:

ES 177.1	Introduction to Environmental Management for Sustainability	3 units
PS 153.5	Topics in Environmental Physics Series V: Climate Change and Disaster Risk	3 units
DEC 140.1	Systems Modeling	3 units

The electives are:

LS 199.10	Special Topics in Administration: Business and the Environment	3 units
PH 163	Environmental Ethics	3 units
SA 128	Cities and Society	3 units
LS 171.1	Strategic Issues in Sustainability: Sustainable Mobility	3 units
LS 138.1	Creative Problem Solving for Sustainability Management	3 units

## COURSE OFFERINGS

### **LS 10 PHILIPPINE BUSINESS AND ECONOMIC ENVIRONMENT 2 units**

This course presents a broad and interdisciplinary view of the Philippine business environment, including the issues and challenges facing it. It provides a survey of the factors influencing business decision making in the Philippines and a framework for environmental and industry analysis.

### **LS 11 PRINCIPLES OF MANAGEMENT 3 units**

This course discusses the fundamental concepts and principles necessary for effective management and the knowledge and skills required of a manager using, as the basic framework, the nature and role of the management process and the tasks of planning,

organizing, directing, and controlling.

### **LS 13 PRINCIPLES OF MANAGEMENT FOR THE SERVICE SECTOR 3 units**

This course discusses the fundamental concepts and principles for effective management and the knowledge and professional skills required of a manager in the service sector. Students are introduced to the core functional areas of operations, marketing, human resources, finance, and their interrelationships.

### **LS 100 ORGANIZATIONAL BEHAVIOR 3 units**

**Pre-requisite: PSY 101**  
This course studies the factors influencing the behavior of individuals and groups in

organizations. It explores various organizational practices and phenomena to help students understand the workings of organizations and enhance their awareness of the managerial and leadership skills needed for the organizations' effective performance.

### **LS 101 ORGANIZATIONAL COMMUNICATION 3 units**

**Pre-requisites: EN 12, ACC 30**

This course develops the students' ability to communicate effectively both within and outside the business organizations, by providing conceptual frameworks and tools for thinking clearly and analytically, a business vocabulary and practical exercises for enhancing the students' reading, listening, presentation, writing, and non-verbal communication skills.

**LS 125**  
**STRATEGIC MANAGEMENT**  
**3 units**

**Pre-requisites:** MKT 101 or MKT 102 or MKT 103, FIN 102 or FIN 103 or FIN 105, POM 102 or POM 104, LS 100

This course serves as the capstone for graduating seniors in management-oriented concentrations. The center of attention is the total enterprise—the industry and the competition environment in which it operates, its long-term direction and strategy, its resources and competitive capabilities, and its prospects for success.

**LS 126**  
**STRATEGY FORMULATION**  
**3 units**

**Pre-requisites:** MKT 101 or MKT 102 or MKT 103, FIN 102 or FIN 103 or FIN 105, POM 102 or POM 104 or POM 105, LS 100

*Taken during the first semester of fourth year.*

This is the first of two courses that integrate the various functional areas of business – accounting, finance, marketing, production, human resource management. The centerpiece is the group business project. Students develop a business plan to start up a business.

**LS 127**  
**STRATEGY**  
**IMPLEMENTATION**  
**3 units**

**Pre-requisite:** LS 126  
*Taken during the second semester of fourth year.*

This is the second of two courses that integrate various functional areas of business – accounting, finance, marketing, production, human resource management. Students

implement a group business project for at least three months, evaluate their performance and strategies, and show how the business can be expanded.

**LS 128**  
**SMALL BUSINESS**  
**CONSULTING**  
**3 units**

**Pre-requisites:** ACC 15 or ACC 20 or ACC 30, MKT 101 or MKT 102 or MKT 103, FIN 102 or FIN 103 or FIN 105, POM 102 or POM 104, LS 100

This is a course that prepares students to provide solutions to specific needs of small and medium Philippine enterprises. It helps students understand industry structures, the value creation process in enterprises, and innovative business modeling.

**LS 129**  
**WORK PRACTICUM AND**  
**CAREER DEVELOPMENT**  
**3 units**

**Pre-requisite:** LS 10 or LS 11 or LS 100

This course immerses incoming seniors in the corporate environment where theory and practice on leadership and organizational behavior go hand-in-hand. Focus is on the linkages among job, career, and one's life. Students take a summer job with a minimum of 200 working hours.

**LS 130**  
**LEADERSHIP IN THE 21<sup>ST</sup>**  
**CENTURY**  
**3 units**

**Pre-requisite:** LS 100  
This course explores the “*leadership practice fields*” where concepts and techniques learned are consciously discussed, rehearsed, and practiced in the classroom. Students implement

the techniques, whenever relevant and self-chosen, in “*leadership performance fields*” where they actually find themselves in.

**LS 131**  
**THE LEADERSHIP**  
**CHALLENGE**  
**3 units**

**Pre-requisite:** LS 100

This course discusses the five exemplary leadership practices of Kouzes and Posner to sharpen leadership skills. These are: challenging the process, inspiring a shared vision, enabling others to act, modeling the way, encouraging the heart, myths, traditions, and realities, and the ten commitments of leadership.

**LS 132**  
**LEADING AND MANAGING**  
**CHANGE**  
**3 units**

**Pre-requisite:** LS 100

This course explores approaches to effective leadership within the context of organizational chaos and complexity. It studies effective leaders who know how to catalyze and support positive changes in structure, products and services, organizational culture, and people.

**LS 133**  
**THE 7 HABITS OF HIGHLY**  
**EFFECTIVE PEOPLE**  
**3 units**

This course discusses personal and interpersonal effectiveness based on the book by Stephen Covey. These 7 habits are based upon a natural, sequential development to help students achieve a high degree of self-mastery and be able to work more effectively with others over time.

**LS 134**  
**PRINCIPLED**  
**NEGOTIATIONS**

**3 units**

This course focuses on cutting-edge concepts in negotiation – both western and oriental – grounded on extensive research and practical experience of the Harvard Business School and the Stanford Business School. This course encourages students to enter and enjoy the ethical Negotiation Olympics as a lifelong journey.

**LS 135**  
**STRATEGIC HUMAN**  
**CAPITAL MANAGEMENT**

**3 units**

**Pre-requisite: LS 100 (May be taken concurrently)**

This course focuses on people as the single most critical component of productivity, introducing the strategic perspective in harnessing the organization's human resources, looking at the strategic roles which the Human Resources function and professionals play in creating value and delivering results to their organizations.

**LS 136**  
**STRATEGIC HUMAN**  
**RESOURCES**  
**DEVELOPMENT**

**3 units**

**Pre-requisite: LS 100 (May be taken concurrently)**

This course is a basic yet comprehensive overview on how people in business organizations are harnessed to help businesses achieve and surpass expected results. The course provides concepts, tools, and models on the use of training and development, career development, and organization development.

**LS 137**  
**ORGANIZATIONAL**  
**DEVELOPMENT**

**3 units**

**Pre-requisite: LS 100**

This is a course on current organizational development practice, through action research and group interventions processes that strengthen organizations. It looks into experiences and work organizations that produce groups that enliven, motivate, and bring out the best in their members.

**LS 138**  
**CREATIVE PROBLEM**  
**SOLVING AND DECISION**  
**MAKING**

**3 units**

This course deals with developing individual creativity and the creative process. It equips the students with techniques of increasing creativity, and develops the students' ability to propagate creativity in an organization and to direct such in the formulation and pursuit of corporate and competitive strategies.

**LS 138.1**  
**CREATIVE PROBLEM**  
**SOLVING FOR**  
**SUSTAINABILITY**  
**MANAGEMENT (SUST 140)**

**3 units**

This course discusses the importance of multi- and interdisciplinary perspectives in solving problems of environmental sustainability. It involves a series of lectures from leaders who used mixed perspectives in finding solutions to challenges, and experts from different disciplines that could contribute

to particular issues in environmental sustainability.

**LS 139**  
**BUSINESS ETHICS AND**  
**SOCIAL RESPONSIBILITY**

**3 units**

**Pre-requisite: PH 104**

This course examines the social, environmental, and ethical issues and tries to integrate them with successful business practices. It increases students' awareness in such issues and provides them with opportunities to practice ethical reasoning and thinking using real-life business situations.

**LS 141**  
**THE BUSINESS OF**  
**FRANCHISING**

**3 units**

This course prepares students to enter the field of retail chain or multiple outlet business. The course helps students understand the relevant issues related to acquiring a franchise, developing an existing business into a franchise, and providing consulting services for a franchisee or franchisor.

**LS 142**  
**CROSS-CULTURAL**  
**COMMUNICATIONS**

**3 units**

**Pre-requisite: LS 100**

This course explores how cultural differences – on the regional, national, corporate, and functional levels – influence business work-styles and protocol, particularly communication, and how cross-cultural literacy contributes to success in the context of a diverse and globalized workplace.



**LS 142.1****INTERCULTURAL COMMUNICATION****3 units****Pre-requisite: LS 100***For students who use English as a foreign language*

This course focuses on how cultural differences – on the regional, national, corporate, and functional levels – influence business work-styles and protocol, particularly communication, and how cross-cultural literacy becomes a key factor in a diverse and globalized workplace.

**LS 143****FAMILY BUSINESS MANAGEMENT****3 units****Pre-requisite: LS 100**

This course presents the theoretical framework for understanding the family business organization, exposing the dynamics and communication issues of such organizations. Students learn how leadership and relationships that are inherent in family businesses intertwine in the ownership, governance, and management of the family business.

**LS 144****SOCIAL ENTREPRENEURSHIP****3 units**

**Pre-requisites: ACC 15 or ACC 20 or ACC 30, MKT 101 or MKT 102 or MKT 103, FIN 102 or FIN 103 or FIN 105, POM 102 or POM 104, LS 100**

This course discusses the theory and practice of social enterprises concerned with both financial sustainability and achieving social development objectives. It integrates the use of management practices with

sustainable development and aims to inspire students to establish or participate in social enterprises after they graduate.

**LS 145****MANAGING BUSINESS INNOVATIONS****3 units****Pre-requisite: LS 100**

This is an experiential course that brings to life both the principles and realities of innovation and creativity in organizations. Topics include innovation and entrepreneurship, cultivating innovation, identifying opportunities, breakthrough thinking, refining the idea, and product/service development.

**LS 146****ORGANIZATIONAL BEHAVIOR AND LEADERSHIP****3 units****Pre-requisite: LS 100**

This course introduces the field of organizational behavior and various organizational practices and phenomena to help students understand the workings of organizations and enhance their awareness of the managerial and leadership skills needed to perform effectively at the individual, group, and organizational levels.

**LS 147****INTRODUCTION TO SPORTS BUSINESS MANAGEMENT****3 units**

**Pre-requisites: ACC 15 or ACC 35 or ACC 101, MKT 101 or MKT 102 or MKT 103**

This course is an introduction to basic business management principles and concepts as applied to the sports industry.

**LS 151****ENTREPRENEURSHIP FOR SUSTAINABLE DEVELOPMENT****3 units**

This course explores how social problems can be addressed through financially sustainable earned-income activities. Different social enterprise models are presented and various aspects of business operations are discussed with an end in view of maximizing social impact.

**LS 152****STRATEGIC MANAGEMENT FOR DEVELOPMENT I****3 units**

**Pre-requisites: Mkt 101/102/103, Fin 102/103/105, POM 102/104/105 & L&S 100**

This course uses strategic management tools to develop sustainable and scalable sources of livelihood for Bottom of the Pyramid (BoP) communities. Students work with BoP-based entrepreneurial ventures and other stakeholders to develop business plans to help start up or improve these ventures.

**LS 153****STRATEGIC MANAGEMENT FOR DEVELOPMENT II****3 units**

**Pre-requisites: Mkt 101/102/103, Fin 102/103/105, POM 102/104/105 & L&S 100**

This is a follow up course to Strategic Management for Development I. Students assist entrepreneurs in their implementation of the business, identifying workable relationships with community partners in a more in-depth manner, to provide concrete solutions to improve Bottom of the Pyramid communities.

**LS 154****NANO-ENTERPRISE  
MANAGEMENT****3 units**

This course equips students with the fundamental skills to evaluate nano-enterprises and assist nano-entrepreneurs from marginalized sectors of society in attaining sustainability ensuring their continued viability through the integration of strategic management techniques and business and social development skills acquired in previous courses.

**LS 155****ENTREPRENEURIAL  
MINDSET****3 units**

This course is an elective for students exploring careers as entrepreneurs. The course is oriented towards identifying knowledge, key skills and the right mental attitude of an entrepreneur, and is open to non-SOM students interested in setting up their own business.

**LS 160****KNOWLEDGE  
MANAGEMENT****3 units****Pre-requisite: LS 100**

This course introduces the theoretical concepts of knowledge management, intellectual capital, corporate memory, the learning organization, e-learning, mentoring and coaching, managing knowledge workers, and the valuation of intellectual capital. The course equips students with the skills to apply the concepts of knowledge management in organizations.

**LS 170****STRATEGIES IN THE  
GLOBAL BUSINESS  
ENVIRONMENT****3 units****Pre-requisite: MKT 101 or  
MKT 102 or MKT 103**

This is a course on the strategic aspects of businesses that operate across national borders, STET, identification and assessment of the forces that shape the international economic environment, and the impact of information technology, electronic communication, and ecology.

**LS 171.1****STRATEGIC ISSUES IN  
SUSTAINABILITY:  
SUSTAINABLE MOBILITY****3 units**

The course introduces the role of transportation in sustainability issues, the changing mobility needs of stakeholders, and the role of sustainable transportation to long-term business sustainability and success. Topics include an overview of transport planning, demand management, environmental protection, road safety, and gender in transport.

**LS 172****STRATEGIC ISSUES IN  
DOING BUSINESS IN CHINA****3 units****Pre-requisite: MKT 101 or****MKT 102 or MKT 103**

This course is an introduction to current Chinese trade practices, the relevant rules, as well as the opportunities and problems in doing business with China. Topics include market research, product sourcing, negotiation practices, and common Chinese business strategies.

**LS 173****STRATEGIC ISSUES IN  
DOING BUSINESS IN JAPAN****3 units****Pre-requisite: MKT 101 or  
MKT 102 or MKT 103**

This course explores the Japanese business environment. It analyzes the various aspects of Japanese corporations – organization, production and quality control, marketing, information technology, finance, and human resource management.

**LS 174****DOING BUSINESS IN THE  
ASIAN CONTEXT****3 units**

An introduction to the business environments as well as the opportunities and problems related to doing business in Asian countries. Topics include government regulations, business registration, market research, product sourcing, negotiation practices, financing, human resource practices, and business strategies of firms in selected Asian countries.

**LS 199.2****SPECIAL TOPICS IN  
ADMINISTRATION:  
DEVELOPMENTS IN  
INTERNATIONAL BUSINESS  
ENVIRONMENT AND  
IMPLICATION ON  
PHILIPPINE INDUSTRY****3 units****Pre-requisite: LS 10 or****currently taking up LS 125**

This course surveys the latest developments in the international business environment and implications on Philippine industry. Focus is on changes brought about by globalization and technology and their effects on local firms. Topics include liberalization,



emerging technologies, and IT strategies of global and local firms.

**LS 199.3**  
**SPECIAL TOPICS IN**  
**ADMINISTRATION: CHINA**  
**BUSINESS STUDY TOUR I**  
**3 units**

**Pre-requisite:** 3<sup>rd</sup> year standing  
This course provides students with a combination of academic lectures and experiential learning in Beijing and Shanghai. Guided tours to several important cultural, political, historic, and corporate sites supplement the lectures given by Western-educated Chinese professors on a rich array of topics about China.

**LS 199.4**  
**SPECIAL TOPICS IN**  
**ADMINISTRATION: CHINA**  
**BUSINESS STUDY TOUR II**  
**3 units**

This course provides students with a combination of academic lectures and experiential learning in Beijing and Shanghai. Guided tours to several important cultural, political, historic, and corporate sites supplement the lectures given by Western-educated Chinese professors on a rich array of topics about China.

**LS 199.6**  
**SPECIAL TOPICS IN**  
**ADMINISTRATION:**  
**SITUATIONAL LEADERSHIP**  
**3 units**

This course studies the five aspects of leadership behaviors – Envisioning, Energizing, Engaging, Enabling, and Executing (5E model) – and its application. Topics include leadership styles and how they deliver results in and out of the business world.

**LS 199.7**  
**SPECIAL TOPICS IN**  
**ADMINISTRATION:**  
**BUSINESS STRATEGY**  
**SIMULATION**  
**3 units**

**Pre-requisite:** MKT 101 or MKT 102 or MKT 103

This course enables students to participate in an internationally recognized business strategy game in a highly competitive global business environment under the supervision of an experienced mentor. This pedagogical tool provides a natural setting for planning, operations, control, feedback, and adaptation of business activities.

**LS 199.8**  
**SPECIAL TOPICS IN**  
**ADMINISTRATION: RETAIL**  
**MANAGEMENT**  
**3 units**

**Pre-requisites:** ACC 10 or ACC 15 or ACC 20, POM 102 or POM 103 or POM 104, MKT 101 or MKT 102 or MKT 103

This course prepares students for the various intricacies of the local retail industry, with particular focus on managing a retail store. Topics include retail strategic planning, retail site selection, retail merchandising and inventory management, retail human resource management, and retail customer service.

**LS 199.9**  
**SPECIAL TOPICS IN**  
**ADMINISTRATION:**  
**CORPORATE SOCIAL**  
**INTEGRATION**  
**3 units**

**Pre-requisite:** At least 3<sup>rd</sup> year standing

This course presents an alternative paradigm of corporate social responsibility

where CSR becomes an authentic and sustainable source of shared strategic value for both corporations and society. The course uses the *principle of shared value* and the framework of *corporate social integration*.

**LS 199.10**  
**SPECIAL TOPICS IN**  
**ADMINISTRATION:**  
**BUSINESS AND THE**  
**ENVIRONMENT**  
**3 units**

**Pre-requisite:** At least 3<sup>rd</sup> year standing

The course introduces students to environmental issues and the responses that businesses are taking, such as initiatives to reduce carbon and water footprints. Cases show how companies are undertaking changes as an ethical imperative and as a requirement for long-term business sustainability and success.

**LS 199.11**  
**SPECIAL TOPICS IN**  
**ADMINISTRATION:**  
**LEADERSHIP AND**  
**THEATER:**  
**COMMUNICATION AND**  
**CREATIVITY**  
**3 units**

This course engages students in a series of theater-based exercises that will enable them to develop qualities essential for effective leadership in the workplace.

**LS 199.12**  
**SPECIAL TOPICS IN**  
**ADMINISTRATION:**  
**BUSINESS PROCESS**  
**OUTSOURCING**  
**3 units**

This course introduces the students to the various BPO services such as HR, Finance

and Admin., IT, Contact Center, Animation, etc. and the management tools for this business. The course also dwells on the challenges to maintain the country's global competitiveness.



3/F John Gokongwei School of Management Building  
(632) 426-6001 loc. 5531  
fax: (632) 426-6076

# MARKETING AND LAW

**Anna A. Mendiola**

*Chair*

**Faculty**

**Associate Professors**

Rodolfo P. Ang  
Joseph Sedfrey S. Santiago

**Assistant Professors**

Anna A. Mendiola  
Eduardo Victor J. Valdez

**Instructor**

John Luis D. Lagdameo

**Lecturers**

Joseph John Gerald M. Aguas • Maria Sophia Paula B. Agustin • Arby G. Andaya • Virginia B. Brocka • Danny E. Bunyi • Raymond Christopher S. Castillo • Danny L. Chan • Gerard L. Chan • Albert Raymond C. Cuadrante • Arnold F. De Vera • Nathaniel M. Dy-Liacco • Raul Juan N. Esteban • Juan Carlo P. Fragada • Eunice April T. Gan • Bienvenido F. Garcia • Carolina E. Go • Carlo Luis V. Hemedes • Doroteo Dennis D. Heruela • Jose Vener C. Ibarra • David Edward G. Jimenez • Ma. Cristina C. Lascano • Gilberto F. Lauengco • Alexander A. Lim • Carmelo Francisco V. Lopez • Raymund Martin E. Magdaluyo • Jose Alfredo L. Manapat • Elaine Carla P. Mariano • Armando G. Miclat, Jr. • Michael Dana N. Montero • Christian C. Monteron • Bienvenido C. Niles, Jr. • Reginald Alberto B. Nolido • Enrico C. Osi • Aaron A. Palileo • Senen M. Perlada • Ranil M. Reynante • Luis Francis A. Rodrigo, Jr. • Hans Eric G. Roxas-Chua • Anna Rhea V. Samson • Juanito L. Sañosa, Jr. • Jose Richard S. Soriano • Norman S. Tanchingco • Lester Gil B. Tanquilut • Patrick U. Tolentino • Aldo Zelig U. Tong • Maria Teresa D. Villanueva • Carla Ann V. Yaptinchay

The educational objective of the Marketing Department of the John Gokongwei School of Management is to train and form our young students to be the successful entrepreneurs of the next generation, able to conceptualize and develop the innovative and value-added products and services that will be the successful and truly global Philippine brands of the future.

The Law Department is a critical service department for the various degree programs of the John Gokongwei School of Management, providing business law expertise that is an integral part of their curricula. It is a key partner in the development and growth of the Legal Management Program.

## MINOR IN MARKETING

The Minor in Marketing program provides interested students with a structured and coherent program of study in marketing.

To qualify for the program, the students must have a grade of at least B in any of the following courses:

MKT 101	Principles of Marketing	3 units
MKT 102	Opportunity Seeking and Marketing Analysis	OR 5 units

The student must be enrolled in any of the seven JGSOM major programs, AB Management Economics, or AB European Studies (Business Track).

To earn the Minor, students must achieve a minimum grade average of 3.00 for the five Marketing courses taken for the minor with no grade lower than C in any of the courses. The following are the required courses of the minor program:

MKT 111	Marketing Research	3 units
MKT 112	Brand Management	3 units
MKT 121*	Advertising Management	OR 3 units
MKT 122*	Sales Management	3 units

\* Students who take both MKT 121 and MKT 122 can have the second one credited as one of the two Marketing electives

Students choose any 2 additional Marketing electives among the following:

MKT 104	Marketing Communications (not allowed for BSCTM)	3 units
MKT 124	Sales and Distribution Management	3 units
MKT 131	Direct Marketing	3 units
MKT 142	Services Marketing – Selling the Intangible	3 units
MKT 171	International Business Opportunities	3 units
MKT 172	International Marketing	3 units
MKT 173	Export Marketing	3 units
MKT 174	European Marketing and Business Strategy	3 units
MKT 175	Understanding International Trade and Competition	3 units
MKT 183	Introduction to Digital Marketing	3 units
MKT 199N	Special Topics in Marketing: Fashion Merchandising Management	3 units
MKT 199O	Special Topics in Marketing: Non-Traditional Marketing for Entrepreneurs	3 units
MKT 199P	Special Topics in Marketing: Blue Ocean Strategy (Marketing Innovation)	3 units
MKT 199Q	Special Topics in Marketing: Marketing Communication in an Asian Context	3 units
LAW 199C	Special Topics in Law: Law on Media and the Arts	3 units
LS 129	Work Practicum and Career Development	3 units

(only with prior approval of the Chairman of the Marketing and Law Department)

Any other electives upon the approval of the Program Director.

## COURSE OFFERINGS

### **CTK 41 INTEGRATIVE PROJECT**

**3 units**

**Pre-requisites:** COM 14,  
LS 10, FIN 102, MKT 101,  
CS 30, Production Laboratory,  
Industry Overview

Under close faculty supervision, students design and implement a term-long and hands-on major project that will integrate what they have learned from the courses taken from the various disciplines in the Management of Communications Technology program.

### **CTK 199 SPECIAL TOPICS IN COMMUNICATION TECHNOLOGY**

**3 units**

This course discusses special topics in communication technology that are of current importance, relevance, and of general interest.

### **LAW 11 ESSENTIALS OF PHILIPPINE BUSINESS LAW**

**3 units**

This course is an overview of laws related to business in the Philippines, particularly those governing the transactions necessary for the conduct of an enterprise. Court case studies are utilized.

### **LAW 21 OBLIGATIONS AND CONTRACTS**

**3 units**

This is an in-depth study of the nature, kinds, and effects of obligations and their extinguishments; contracts, their requisite, form, and interpretation; and defective contracts, quasi-contracts, natural obligations, and estoppel.

### **LAW 22 LAW ON BUSINESS ORGANIZATIONS AND INTELLECTUAL PROPERTIES**

**3 units**

**Pre-requisite:** LAW 11 or  
LAW 21

This course is an introduction to the basic laws in organizing a business; the SEC rules on businesses and securities; and the concepts of intellectual property, the protection it guarantees, and the actions involved therein.

### **LAW 123 SPECIAL CONTRACTS AND NEGOTIABLE INSTRUMENTS**

**3 units**

**Pre-requisite:** LAW 11 or  
LAW 21

This course is an introduction to basic concepts in the laws pertinent to the practical nuances of checks, mortgages, loans, pledges, agency contracts,

lease agreements, and sales in order for future managers to be guided accordingly in their day-to-day business activities.

### **LAW 124 TAXATION**

**3 units**

**Pre-requisite:** LAW 11 or  
LAW 21

This course introduces the basic principles of taxation, specifically the common provisions on income tax, value added tax, excise tax, estate tax, documentary tax, capital gains tax, and donor's tax; rudimentary strategies in tax sheltering and minimization of tax assessments; and rudimentary tax calculations.

### **LAW 125 LABOR LAW AND SOCIAL LEGISLATION**

**3 units**

**Pre-requisite:** LAW 11 or  
LAW 21

This course is an introduction to the basic principles in labor laws and the dynamics involved in labor legislation to effect societal change, as well as techniques in negotiating and bargaining with employees and labor unions.

**LAW 131****FAMILY LAW****3 units****Pre-requisite: LAW 11 or LAW 21**

This course examines the statutory provisions on persons and family relations as contained in the preliminary and human relations chapter of the Civil Code of the Philippines and the Family Code. Topics include property relations between spouses, paternity and filiations, adoption, and support and emancipation.

**LAW 132****CRIMINAL LAW****3 units****Pre-requisite: LAW 11 or LAW 21**

This course is a survey of the system of penal statutes, including the salient provisions of the Revised Penal Code, the Child and Youth Welfare Code as it relates to juvenile delinquents, and the Recent Probation Law, among others.

**LAW 133****TORTS AND DAMAGES****3 units****Pre-requisite: LAW 11 or LAW 21**

This course studies the basic concepts concerning quasi-delicts (torts) and their effect on business and personal dealings. Topics include negligence, obligations and liabilities arising from human relations, nuisance and interference in contractual relations, and the concept of civil damages. Supreme Court decisions are examined.

**LAW 134****TAXATION II****3 units****Pre-requisite: LAW 124**

This course studies the fundamental concepts and principles of income taxation, estate and gift taxation, VAT, and other forms of taxation; and the computation and procedural requirements thereof. Topics include remedies available to the government and the taxpayer, compliance requirements and statutory offenses, and penalties.

**LAW 141****DEVELOPMENT LAW****3 units****Pre-requisite: LAW 11 or LAW 21**

This course is an alternative approach to law and the use of legal resources as a tool for societal change. Students analyze the situation, laws, and executive policies relating to the Philippine base sectors of labor, agrarian workers, urban poor, women, youth, and students.

**LAW 143****GOVERNMENT SERVICE AND PUBLIC ADMINISTRATION****3 units****Pre-requisite: LAW 11 or LAW 21**

This course highlights the various roles that graduates can assume in government service using the framework of the Philippine government and its need for highly qualified and motivated individuals. Topics include the structure of government, the Office of the President, and economic planning.

**LAW 171****PUBLIC****INTERNATIONAL LAW****3 units****Pre-requisite: LAW 11 or LAW 21**

This course introduces the principles governing the relationship between states and international legal persons like the United Nations. Topics include the nature of international law and the concept of an international legal person, the relationship between international and municipal law, and issues concerning developing countries.

**LAW 172****EUROPEAN BUSINESS LAW****3 units**

This course studies the business-related legal environment in the European Union with an overview of the world trading system, and a discussion of significant areas of European business law and policy within the context of the European trading system.

**LAW 199****SPECIAL TOPICS IN LAW****3 units****Pre-requisite: LAW 11 or LAW 21**

This course discusses special topics in law that are emerging or of current importance and relevance.

**LAW 199A****SPECIAL TOPICS IN LAW: LAW FOR ART'S SAKE****3 units**

This course is an introduction to the Copyright Law provisions of the Philippine Intellectual Property Code and the mode of enforcing such provisions through contracts and

administrative and criminal actions.

**LAW 199C  
SPECIAL TOPICS IN LAW:  
LAW ON MEDIA AND THE  
ARTS**

**3 units**

This course discusses the legal principles governing the constitutional guarantee of Freedom of Expression. Topics include various laws and regulations on the responsible exercise of this right and the utilization of media, forms of expression and the arts, including acceptable and legal forms of expression.

**LAW 199D  
SPECIAL TOPICS IN LAW:  
BUSINESS ETHICS AND  
LAW**

**3 units**

This course prepares students for various ethical and legal challenges that may be encountered outside the university. The main ethical problem could be the conflict between the pursuit of profit and the adherence to ethical principles and values. A legalistic point of view is adopted in the discussion of ethical problems.

**MKT 101  
PRINCIPLES OF  
MARKETING**

**3 units**

**Pre-requisite: ACC 15 or  
ACC 30 or ACC 35**

This course builds on the evolution of modern management toward a marketing-oriented view of business; stressing the underlying principle of the "marketing concept"; and integrating concepts in relation to consumer needs, marketing

information, pricing, product development, distribution, selling, advertising, and promotions.

**MKT 102  
OPPORTUNITY SEEKING  
AND MARKETING  
ANALYSIS**

**5 units**

**Pre-requisite: ACC 15 or  
ACC 30 or ACC 35**

This course teaches the students to identify the needs of society, to actively seek answers to these needs in the form of new products or services, to quantify the risks of offering these products or services to the market, and to evaluate the resulting projects in terms of societal priorities and the well-being of the larger community.

**MKT 104  
MARKETING  
COMMUNICATIONS**

**3 units**

**Pre-requisite: MKT 101 or  
MKT 102**

This course introduces marketing communications as part of a company's integrated marketing communications (MarCom) program. Topics include the communications cycle, the nature and function of each tool in the MarCom process, and planning and implementing an integrated MarCom program in the Philippines.

**MKT 111  
MARKETING RESEARCH**

**3 units**

**Pre-requisite: MKT 101 or  
MKT 102**

This course is a scientific approach to decision making in marketing decisions. Topics include cost and value of information, product testing,

consumer files, research design, sampling techniques, data-gathering techniques, creative data interpretation, simulation, and implementation of actual research findings.

**MKT 112  
BRAND MANAGEMENT**

**3 units**

**Pre-requisite: MKT 101 or  
MKT 102**

This course integrates learning from finance, accounting, management, and economics as applied to actual products in the marketplace. Students are given specific brand assignments and are to think and decide like real-life marketing professionals. Heavy emphasis is given to group dynamics.

**MKT 121  
ADVERTISING  
MANAGEMENT**

**3 units**

**Pre-requisite: MKT 101 or  
MKT 102**

This course is an introduction to advertising from the point of view of account management within the advertising agency, examining the roles played by the different departments of an agency and the related segments of the advertising industry.

**MKT 122  
SALES MANAGEMENT**

**3 units**

**Pre-requisite: MKT 101 or  
MKT 102**

This course studies the analysis, planning, implementation, and control of sales activities. Topics include setting objectives, designing strategy, recruiting, selecting, training, supervising, and evaluating the sales force.



**MKT 124**  
**SALES AND DISTRIBUTION**  
**MANAGEMENT**

**3 units**

**Pre-requisite: MKT 101 or**  
**MKT 102**

This course studies the tools in developing a winning marketing strategy, such as efficient sales management and effective distribution systems. Topics include alternative designs of distribution systems and how the choice of particular designs and channels of distribution affects the attainment of marketing objectives.

**MKT 131**  
**DIRECT MARKETING**  
**3 units**

**Pre-requisite: MKT 101 or**  
**MKT 102**

This course studies the basics of marketing products and services directly to the target market through the use of databases, mailing lists, and direct response techniques through the media, including a study of techniques on concept and creative work. Philippine marketing case studies are used.

**MKT 142**  
**SERVICES MARKETING –**  
**SELLING THE INTANGIBLE**  
**3 units**

**Pre-requisite: MKT 101 or**  
**MKT 102**

This course studies the basics of Service Marketing for better understanding of the unique dynamics that characterize this discipline, where the core product is a performance/act described as intangible. The end goal is a better appreciation of the differences between marketing goods and marketing services.

**MKT 171**  
**INTERNATIONAL BUSINESS**  
**OPPORTUNITIES**

**3 units**

**Pre-requisite: MKT 101**  
**or MKT 102**

This course studies foreign markets, domestic capabilities, competition, shipping alternatives, raw material supply situation, incentive plans, credit availability, and imports to support export development, and diversification.

**MKT 172**  
**INTERNATIONAL**  
**MARKETING**  
**3 units**

**Pre-requisite: MKT 101 or**  
**MKT 102**

This course is an introduction to the challenges that arise from a firm's internationalization process; the skills needed to understand the cultural, economic, and political environments within which global firms operate; and the basic concepts and tools for creating and managing marketing strategies on a global scale.

**MKT 173**  
**EXPORT MARKETING**  
**3 units**

**Pre-requisite: MKT 101 or**  
**MKT 102**

This course studies the principles of globalization and its impact on the Philippine economy. Topics include the principles and rationale of exporting Philippine-made products and services as a source of foreign exchange earnings, generating employment, transferring technology, and generating foreign investments.

**MKT 174**  
**EUROPEAN MARKETING**  
**AND BUSINESS STRATEGY**

**3 units**

**Pre-requisite: MKT 101 or**  
**MKT 102**

This course studies the strategic decisions and management of a firm, examining issues central to its long- and short-term position, addressing questions on the creation or reinforcement of competitive advantage, beginning at the level of the business unit, and then moving to European business operations.

**MKT 175**  
**UNDERSTANDING**  
**INTERNATIONAL TRADE**  
**AND COMPETITION**  
**3 units**

**Pre-requisite: MKT 101 or**  
**MKT 102**

This course introduces international trade and competition as vital areas of concern for managers. Topics include theories, policy areas, domestic and international rules and regulations, practices of international trade and competition, and approaches to the formulation of firm or management strategies for international business transactions.

**MKT 183**  
**INTRODUCTION TO**  
**DIGITAL MARKETING**  
**3 units**

**Pre-requisites: MKT 101 or**  
**MKT 102**

This online course facilitates the understanding of the fundamentals of digital marketing and its benefits in brand awareness and brand building. It introduces different digital marketing channels, and applies each to various

campaigns. It encourages the discovery of emerging trends in digital marketing.

**MKT 199C  
SPECIAL TOPICS IN  
MARKETING: BUSINESS  
VENTURE LAB 1**

**3 units**

**Co-requisite: MKT 199D**

This course is the first of a three-consecutive-term program that coaches students in developing their product or service idea into a working model. Students are involved in the essentials of product development and present a prototype of their business proposal at the end of the term.

**MKT 199D  
SPECIAL TOPICS IN  
MARKETING: BUSINESS  
VENTURE LAB 2**

**3 units**

**Co-requisite: MKT 199C**

This course is the first of a three-consecutive-term program that coaches students in developing their product or service idea into a working model. Students are involved in the essentials of product development and present a prototype of their business proposal at the end of the term.

**MKT 199F  
SPECIAL TOPICS IN  
MARKETING: BUSINESS  
DEVELOPMENT 1**

**3 units**

**Co-requisite: MKT 199G**

This course is the second of a three-consecutive term program. Entrepreneurial teams continue with product development and market planning, business plan preparation, incorporation and registration of their business with the Securities and

Exchange Commission, and compliance with regulatory requirement of the government.

**MKT 199G  
SPECIAL TOPICS IN  
MARKETING: BUSINESS  
DEVELOPMENT 2**

**3 units**

**Co-requisite: MKT 199F**

This course is the second of a three-consecutive-term program. Entrepreneurial teams continue with product development and market planning, business plan preparation, incorporation, and registration of their business with the Securities and Exchange Commission, and compliance with all regulatory requirements of the government.

**MKT 199I  
SPECIAL TOPICS IN  
MARKETING: START-UP  
OPERATIONS LAB 1**

**3 units**

**Co-requisite: MKT 199J**

This course is the third of a three-consecutive term program. Entrepreneurial teams focus on the commercial production, marketing, sales, and finance aspects of their product. As companies focus on their endeavor as “going concerns,” students are coached on financial statement preparation.

**MKT 199J  
SPECIAL TOPICS IN  
MARKETING: START-UP  
OPERATIONS LAB 2**

**3 units**

**Co-requisite: MKT 199I**

This course is the third of a three-consecutive term-program. Entrepreneurial teams focus on the commercial production, marketing, sales,

and finance aspects of their product. As companies focus on their endeavor as “going concerns”, students are coached on financial statement preparation.

**MKT 199N  
SPECIAL TOPICS ON  
MARKETING: FASHION  
MERCHANDISING  
MANAGEMENT**

**3 units**

**Pre-requisite: MKT 101 or  
MKT 102**

This course covers merchandising concepts, methods, and calculations vital to successful business practices in the fashion industry. It also studies the principles, procedures, and techniques practiced by buyers and merchandisers of fashion goods in determining what assortments to buy and which resources to select depending on the market segment.

**MKT 199O  
SPECIAL TOPICS IN  
MARKETING: NON-  
TRADITIONAL MARKETING  
FOR ENTREPRENEURS**

**3 units**

**Pre-requisite: MKT 101 or  
MKT 102**

This course is an introduction to key concepts and practical methods of marketing under a restricted budget, a prevalent situation in most start-up businesses and SMEs. Focus is on non-traditional marketing and selling techniques, although cost-saving techniques and use of tri-media ads are also explored.

**MKT 199P**  
**SPECIAL TOPICS IN**  
**MARKETING: BLUE OCEAN**  
**STRATEGY (MARKETING**  
**INNOVATION)**

**3 units**

**Pre-requisite: MKT 101 or**  
**MKT 102**

This course discusses the latest thinking in marketing and strategy. The Blue Ocean Strategy introduces the concept of value innovation wherein both differentiation and low-cost strategies are formulated simultaneously. Focus is on the formulation of Blue Ocean via the strategy canvas and the 4-action framework.

**MKT 199Q**  
**SPECIAL TOPICS IN**  
**MARKETING: MARKETING**  
**COMMUNICATION IN AN**  
**ASIAN CONTEXT**

**3 units**

**Pre-requisite: MKT 101 or**  
**MKT 102**

This course introduces integrated marketing communications (IMC) and the role it plays in achieving brand marketing objectives and in delivering a distinct, consistent, and compelling message about the company and its products. The course takes an Asian perspective, using Asian IMC campaigns as case studies.

Room 302 John Gokongwei School of Management Building  
(632) 426-6001 loc. 5540/5541  
Telefax: (632) 426-6076

# QUANTITATIVE METHODS AND INFORMATION TECHNOLOGY

**Joselito C. Olpoc**  
*Chair*

**Faculty**  
***Professor Emeritus***  
Mari-Jo P. Ruiz

***Associate Professor***  
Rodolfo P. Ang

***Assistant Professors***  
Joselito C. Olpoc  
Angelo Ramon A. Tanchoco  
Rogelio Sy Siong Kiao

***Instructors***  
Archimedes D. Guerra  
David Edward G. Jimenez  
Michael C. Tan  
Marion Lara L. Tan  
Alvin Patrick M. Valentin  
Alyson L. Yap

***Lecturers***  
Alfredo N. Antone, Jr. • Michael Eric C. Avendaño  
Antonn Benjamin D. Barot • Abbey Dale I. Bautista  
Joel Patrick L. Caballa • Anthony Mark C. Chan  
Chiqui Rosanna T. Calayag • John Carlos B. Clerigo  
Ernesto Y. Congco • Miguel Roberto M. Cruz  
Dennis Andrew T. Flores • Wilson Q. Gan  
Arnold Louie C. Garcia • Mara Ysobel D. Garcia  
Allan C. Ko • Adrean O. Manalo  
Kristine Claire E. Ongcangco • Joseph P. Rasco  
Vicente P. Reventar III • Raul P. Rodriguez  
Mark Steven C. Sioco • Eldridge Myles L. Tan  
Maria Lourdes D. U • Anna Lorraine V. Uy  
Rhyan L. Uy • Delfin Stephen D. Villafuerte

The Quantitative Methods and Information Technology department is actually two departments rolled into one.

As the first part of our name suggests, our department takes care of training students with quantitative tools and methods they need as future managers. Our department handles courses such as Business Statistics, Business Statistics and Research Methods, Production and Operations Management and Operations Research. These courses aim to prepare management students to use quantitative methods as tools in their business decision making processes.

The second part of our department takes care of the growing trends in Information Technology and web-based applications. Our Department prepares future managers to be aware and be prepared to use technology as tools to further improve business processes and business decision making. Our array of courses includes a primary course in business software applications and computer programming, IT Fundamentals, business process re-engineering and management, information engineering and many more. These courses aim to train students to use computers and information technology and make them an essential part of every decision making process in the company.

## MINOR IN DECISION SCIENCE

The Decision Science Minor program provides students with tools for improving the quality of decisions and managing decision making at the level of the individual as well as the organization (group decision making). The approach is multi-disciplinary, with topics taken from management science, psychology, philosophy, and political science. The courses offered under the program provide students with the theoretical and methodological foundations for dealing with complex problems, i.e., defining the problem as well as generating, evaluating, and implementing solutions.

The program is open to all Loyola Schools undergraduate students who are enrolled in any of the six JGSOM major programs or AB Management Economics and have completed a calculus course (MA 19, MA 20, MA 21) with a grade of at least a C+ in any of the following courses:

QMT 11	Business Statistics	OR	3 units
QMT 12	Business Statistics and Research Methods		3 units
POM 104	Quantitative Methods and Operations/ Production Applications		5 units
QMT 109	Business Research and Statistical Modeling		3 units
Or equivalent courses from other departments.			

To earn the minor, students must have a grade of at least C in each of the courses in the minor program and an average grade of at least C+ in all the courses taken (15 units). The following are the required courses of the program:

ITM 107	Decision Analysis		3 units
QMT 120	Basic Principles of Operations Research (for non-ME majors)		3 units
QMT 199.2	Research Methods and Business Modeling Techniques	OR	3 units
MKT 111	Marketing Research		3 units

Two program electives from the list:

COM 14	Visual Thinking for Communication Managers	3 units
ITM 108	Corporate Models and Decision Support Systems	3 units
ITM 122	Gaming and Management Games	3 units
LS 138	Creative Problem Solving and Decision Making	3 units
MA 195G1	Seminar in Problem Solving Techniques	3 units
PH 135	Introduction to Logic	3 units
POM 120	Supply Chain Management	3 units
POM 150	Introduction to Six-Sigma for Process Improvement	3 units
POM 199.3	Project Management Tools and Techniques	3 units
PSY 110	Seminar in Psychology III: Industrial Psychology with Group Dynamics	3 units

Other courses in Math or QMIT upon the approval of the Program Director.

## MINOR IN INFORMATION TECHNOLOGY

The Information Technology Minor program equips JGSOM majors with the knowledge and skills necessary in identifying and managing information technology solutions to help attain business objectives. It includes courses covering IT infrastructure and business applications, technology planning, and information resource planning. Graduates of the program may opt to pursue IT consulting and management.

The program is open to Loyola Schools undergraduate students who are enrolled in any of the six JGSOM major programs or AB Management Economics and have completed a basic computer proficiency/ programming course with a grade of at least C+:

ITM 11 Basic Information Technology Applications in Business	0 unit
ITM 14 Information Technology Application Programming	3 units
Or equivalent courses from other departments.	

To earn the minor, students must have a grade of at least C in each of the courses in the minor program and an average grade of at least C+ in all the courses taken (15 units). The following are the required courses of the program:

ITM 100	Information Technology Fundamentals	3 units
ITM 110	Information Engineering	3 units
ITM 124	Information Technology and Business Strategy (Application)	3 units
	OR	
ITM 124.1	Enterprise Competitiveness Through ICT	3 units
ITM 189	Seminar on Information Technology Trends	3 units
One elective upon the approval of the Program Director*		3 units
* Recommended electives include Database Management, Multimedia Systems, E-Commerce, and Systems Analysis and Design.		

## MINOR IN PROJECT MANAGEMENT

Businesses across industries are valuing project management skills more and more for the successful planning and execution of various initiatives, including the likes of research, marketing campaigns, product development, business process reengineering, construction, mergers and acquisitions, and even corporate restructuring. In fact, in a survey of recent Ateneo graduates, project management has been called out as a field of study that they would have wanted further emphasized in the curriculum given their current experience in the workplace. To address this gap, the John Gokongwei School of Management is introducing the Minor in Project Management, which provides coverage of both the technical and social aspects of managing projects. It likewise provides an avenue for students to apply the tools and techniques in managing scope, time, quality, and resources in a two-semester long, real-life project. Moreover, the minor program can actually be the first step in gaining certification from the Project Management Institute, as it fulfills the latter's 35-hour formal instruction requirement.

The program is open to all Loyola Schools undergraduate students enrolled in any of the seven JGSOM major courses or AB Management Economics and have completed a calculus course (MA 19/20/21) with a grade of at least C+ in any of the following courses:

QMT 11	Business Statistics	OR	3 units
QMT 12	Business Statistics and Research Methods		3 units
POM 104	Quantitative Methods and Operations/ Production Applications		5 units
QMT 109	Business Research and Statistical Modeling		3 units
Or equivalent courses from other departments			

To earn the minor, students must have a grade of at least C in each of the courses in the minor program and an average grade of at least C+ in all the courses taken (15 units). The following are the required courses of the program:

POM 199.2	STPOM: Project Management Fundamentals	3 units
POM 199.3	STPOM: Project Management Tools and Techniques	3 units
POM 199.4	STPOM: Managing Project Teams	3 units
POM 199.5	STPOM: Strategic Project Management	3 units
One course from QMIT Decision Sciences or LS People		3 units
Management Elective with the approval of the Program Director		

## COURSE OFFERINGS

### DEC 100

#### DECISION ANALYSIS

##### 3 units

A study of real world decision-making, combining quantitative and qualitative approaches. By working with real-world problems, the student may gain understanding not only of the rational processes involved in decision-making but also non-rational human approaches to problem solving.

### DEC 140

#### CORPORATE MODELS AND DECISION SUPPORT SYSTEMS

##### 3 units

This course deals primarily with building business and social models using system dynamics, a technique popularized by Prof. Jay Forrester of the Massachusetts Institute of Technology. The I-THINK and/or STELLA software will be used to build these dynamic models.

### DEC 140.1

#### SYSTEMS MODELING (SUST 110)

##### 3 units

This course introduces system dynamics modeling for sustainability policy and strategy. Students visualize a sustainable organization in terms of the structures and policies that create dynamics and regulate performance; and recognize and handle situations where policy interventions are likely to be delayed, diluted, or defeated by unanticipated reactions and side effects.

### ITE 100.1

#### AN INTRODUCTION TO TECHNOLOGY ENTREPRENEURSHIP, LECTURE

##### 2 units

This course gives the students an idea about entrepreneurship, the entrepreneurial business process, its importance to our society, and its role in bringing new ideas to market. Special emphasis is

placed on identifying opportunities and understanding the challenges for start-ups and other new entrants.

### ITE 100.2

#### AN INTRODUCTION TO TECHNOLOGY ENTREPRENEURSHIP, LABORATORY

##### 1 unit

This laboratory component of the introduction to technology entrepreneurship aims to familiarize the students with the current trends in technology and investigate the tactics and strategies of the companies who are at the forefront of these technologies through intensive seminar discussions, brainstorming sessions and business idea refinement.

### ITE 110

#### TECHNOLOGY VENTURE PLANNING

##### 3 units

**Pre-requisite:** ITE 100



This course focuses on the development of a well-crafted business plan by exploring the underlying successes and failures of start-up technology companies throughout the corporate lifecycle: starting new ventures, writing business plans, acquiring other businesses, and making existing enterprises profitable.

**ITE 120  
TECHNOLOGY VENTURE  
LABORATORY**

**2 units**

**Pre-requisite: ITE 110**

This course focuses on monitoring and assisting the students in two aspects of the business venture set-up: a) monitoring the development of the technology that they are developing and b) setting up and registering their business within the context of the Philippine business environment.

**ITE 130  
TECHNOLOGY VENTURE  
START-UP I**

**3 units**

**Pre-requisite: ITE 120**

This course centers on the discussion of how entrepreneurs manage a new technology business venture. Specific issues for discussion include the importance of financial control in a technology venture start-up, the establishment of control processes for marketing, and sales and customer satisfaction using current Web 2.0 technologies.

**ITE 140  
TECHNOLOGY VENTURE  
START-UP II**

**3 units**

**Pre-requisite: ITE 120**

This course focuses on imparting and developing the soft skills needed by budding entrepreneurs in order to manage their new venture within the context of the technology industry. A sample set of topics in this subject includes virtual team management, I.T.

team motivation, time management, and negotiation skills.

**ITE 150  
TECHNOLOGY VENTURE  
IMPLEMENTATION I**

**3 units**

**Pre-requisite: ITE 130**

The course focuses on identifying strategies to pursue business growth and understanding the implications and challenges for managing the business growth. Among the specific issues that will be discussed include the various methods for expanding the venture like joint ventures, merges and acquisitions, franchising, and going public.

**ITE 160  
TECHNOLOGY VENTURE  
IMPLEMENTATION II**

**3 units**

**Pre-requisite: ITE 130**

This course allows the student to assess and synthesize the lessons that s/he learned in his/her development as a technology entrepreneur through the use of local and global real life cases, allowing the student to look forward and strategize on how the business that they created will evolve.

**ITM 11  
BASIC INFORMATION  
TECHNOLOGY  
APPLICATIONS IN BUSINESS**

**0 unit**

This is a practical application of MS Office Programs to business needs, such as Word's desktop publishing features and organizing and analyzing data for linear programming using Excel. Topics may include creating a webpage and maximizing the utility of the World Wide Web with FTP.

**ITM 14  
INFORMATION  
TECHNOLOGY APPLICATION  
PROGRAMMING**

**3 units**

This course aims to familiarize the student with the use of computers and to develop the kind of thinking required to design algorithms, preparing the student for courses that may require electronic spreadsheets and those that introduce optimization techniques and heuristics.

**ITM 100  
INFORMATION  
TECHNOLOGY  
FUNDAMENTALS**

**3 units**

**Pre-requisite: ITM 11  
or ITM 14**

This course is an introduction to the major components of current information technology, providing the knowledge, skill, and the confidence to meet the increasing challenges from IT at work, the profession, and even one's personal life.

**ITM 101  
ADVANCED INFORMATION  
TECHNOLOGY APPLICATION  
PROGRAMMING**

**3 units**

**Pre-requisite: ITM 14**

This course studies the design of efficient algorithms through the use of various techniques, such as top-down design, structured programming constructs, and other software engineering methods. Topics include a discussion of the latest approaches to "programming" and the latest techniques in testing and quality assurance.

**ITM 103  
DATA MANAGEMENT**

**3 units**

**Pre-requisite: ITM 14**

This course introduces the multi-step conception of a database. These steps include the theoretical



conception and the practical logical part in the context of the DBMS; including an introduction to languages, such as Oracle and Informix and their adaptations and applications in the Philippines.

**ITM 105  
SYSTEMS ANALYSIS AND  
DESIGN**

**3 units**

**Pre-requisites:** ITM 14 and at least two JGSOM courses (e.g., MKT 101, MKT 149, POM 101)  
*The student must be familiar with at least one programming language, must have accomplished small programming projects and studied at least two basic areas of management, such as operations/ production management, accounting, and/or marketing.*

This course prepares the students to act as “interpreter” between the programmers who write the program codes, and the end users who have the need for automated information systems. Techniques are introduced to facilitate the preparation of documents to be passed on to programmers.

**ITM 106  
WORKSHOP ON MODELS IN  
COMPUTER-AIDED  
LEARNING**

**3 units**

**Pre-requisite:** ITM 11  
or ITM 14

This is a workshop course that introduces the design principles and fundamentals that are applied in the creation of computer-aided learning (CAL) models for various disciplines. Discussions on computer-aided instruction are included.

**ITM 107  
DECISION ANALYSIS**

**3 units**

**Pre-requisites:** MA 18, MA 151,  
QMT 127

This course studies real world decision-making through quantitative methods, not as an unambiguous, rational process but as real world management fraught with guess-work, assumptions, and personal considerations. By working with real business problems, students may understand both the rational and non-rational aspects of problem solving.

**ITM 108  
CORPORATE MODELS AND  
DECISION SUPPORT  
SYSTEMS**

**3 units**

**Pre-requisites:** ITM 11 or ITM 14; and at least two JGSOM courses (e.g., MKT 149, POM 101, MKT 101)

This seminar discusses advanced topics in key functional areas of management with an introduction to the entrepreneurial perspective, and the study of management buzzwords like MRP and EIS. Real life situations are simulated and case studies discussed. Industry experts are invited to give presentations.

**ITM 110  
INFORMATION  
ENGINEERING**

**3 units**

**Pre-requisite:** ITM 11 or ITM 14  
This course is an introduction to the development of information in the computer world, with a discussion on database systems, object oriented management, electronic document management, and the interface of IT with other functional areas of management.

**ITM 114  
MANAGEMENT  
INFORMATION  
SYSTEMS (MIS)**

**3 units**

**Pre-requisite:** ITM 11 or ITM 14  
This course introduces the key concepts in the planning,

development, and management of information systems in an organization, with an overview of technologies that have influenced the present state of information systems, data communications, database management, computer hardware developments, and present trends and concerns.

**ITM 116  
INFORMATION  
TECHNOLOGY  
MANAGEMENT**

**3 units**

**Pre-requisite:** ITM 121  
This course is an advanced discussion of managing information systems, including important and relevant management issues involved in providing information services to the organization. This capstone course for BS MIS students provides opportunities for integration and application of the other MIS courses.

**ITM 121  
INFORMATION  
TECHNOLOGY PROJECT  
MANAGEMENT**

**3 units**

**Pre-requisites:** ITM 11 or ITM 14; CS 122 or ITM 110  
This course is an introduction to the general principles of management in the information system environment, including the interrelationships between systems development methodologies and project management tools and techniques, analytical methods, problem solving approaches, communication skills, and team participation and leadership.

**ITM 122  
GAMING AND  
MANAGEMENT GAMES**

**3 units**

**Pre-requisites:** ITM 11 or ITM 14; ACC 20; MKT 101  
This seminar uses a game or simulation to provide an

environment in which a set of individuals will act. Participants play games in various fields, such as the Marketing Management Game, and see the effects of their decisions as the simulation is played out.

**ITM 123  
INFORMATION  
TECHNOLOGY  
APPLICATIONS IN THE  
FINANCIAL INDUSTRY  
3 units**

**Pre-requisite:** ITM 11 or ITM 14  
This course is a study of computer applications using the latest computer technologies and software, which can include spreadsheets, database management, word processing, and graphical presentations. Hardware discussions can include ATMs, credit card verifiers, and bar code equipment.

**ITM 124  
INFORMATION  
TECHNOLOGY AND  
BUSINESS STRATEGY  
(APPLICATION)  
3 units**

**Pre-requisites:** ITM 11 or ITM 14; and at least two JGSOM courses.  
This course is an in-depth study of organizational issues in managing information and information technology as a strategic resource in an organization.

**ITM 124 .1  
ENTERPRISE  
COMPETITIVENESS  
THROUGH ICT  
3 units**

This course introduces ICT through the Business Management System (BMS). The model aids SMEs in identifying key success factors as well as the ICT interventions that enable the entire process. Topics include concepts and processes that

empower managers to design their own internet strategy.

**ITM 126  
INFORMATION  
TECHNOLOGY  
APPLICATIONS IN THE  
MARKETING INDUSTRY  
3 units**

**Pre-requisites:** ITM 11 or ITM 14; MKT 101  
This course is a study of the telecommunications industry from a marketing perspective. Topics include available products, how they are sold, and how they are chosen by consumers, including an introduction to telecommunication networks and a discussion of the Internet.

**ITM 129  
INFORMATION  
TECHNOLOGY SYSTEMS  
PLANNING  
3 units**

**Pre-requisites:** ITM 11 or ITM 14; ITM 100 and at least two JGSOM courses  
This course introduces systems for planning in an organization or corporation, including the existing environments, management objectives and directions, the formulation of comprehensive strategies, planning for the implementation of the strategies, and getting mass and management commitment and cooperation for the success of the plan.

**ITM 181  
ELECTRONIC BUSINESS  
FUNDAMENTALS  
3 units**

**Pre-requisite:** ITM 11 or ITM 14  
This course studies electronic business which covers electronic commerce and includes the servicing of customers, collaborating with business partners, and conducting electronic transactions within an organization via computer

networks including the Internet. This course integrates technology with business skills and techniques into a strategic perspective.

**ITM 189  
SEMINAR ON INFORMATION  
TECHNOLOGY TRENDS  
3 units**

**Pre-requisites:** ITM 100, ITM 110  
This is a seminar course in which IT practitioners share their experiences, providing an in-depth look into recent trends and issues in Information and Information Technology as a strategic resource.

**ITM 199  
SPECIAL TOPICS IN  
INFORMATION  
TECHNOLOGY  
MANAGEMENT  
3 units**

This course is a study of emerging issues and trends in information technology management that are of importance and of general interest.

**ITM 199.1  
SPECIAL TOPICS IN  
INFORMATION  
TECHNOLOGY  
MANAGEMENT:  
IT-ENABLED BUSINESS  
ORGANIZATIONS  
3 units**

This is a functional overview of the primary concepts of business functions and various information technology applications to support each. The course culminates with integration topics to appreciate how the key business functions come together to ensure the firm's success.

**POM 101  
INTRODUCTION TO  
PRODUCTION AND  
OPERATIONS MANAGEMENT  
3 units**

This course is an introduction to the various elements, relevant concepts, and tools of production and operations management, providing an integrated framework for understanding the field and its importance in the success of a business.

**POM 102  
FUNDAMENTALS OF  
PRODUCTION AND  
OPERATIONS MANAGEMENT  
3 units**

**Pre-requisites: QMT 11,  
ACC 30**

This course aims to provide the student with an analytical approach to the economics problems of planning and developing human resources, materials, plus facilities and equipment to generate goods and/or planning services for the marketplace.

**POM 104  
QUANTITATIVE METHODS  
AND OPERATIONS/  
PRODUCTION  
APPLICATIONS  
5 units**

**Pre-requisite: MA 12  
or MA 19**

This is a combined statistics and operations management course, covering the relevant concepts of production and operations management, as well as the quantitative tools in statistics that are used in business decision making.

**POM 105  
INTERMEDIATE  
PRODUCTION OPERATIONS  
MANAGEMENT  
3 units**

**Pre-requisites: STAT 109, QMT 121, QMT 127**

This course introduces the functional area of production management. The course begins with an introduction to the nature of production systems and then expounds on the various

components of the production process, focusing on the use and application of quantitative techniques learned from previous courses.

**POM 110  
MATERIALS MANAGEMENT  
3 units**

**Pre-requisite: POM 101  
or POM 102 or POM 104  
or POM 105**

This course is a study of materials management with a discussion on the underlying principles of the management function. Newest developments in this area are introduced.

**POM 113  
SPECIAL TOPICS IN  
ENVIRONMENTAL  
MANAGEMENT  
3 units**

**Pre-requisite: POM 101  
or POM 102 or POM 104  
or POM 105**

This course is a study of environmental issues and approaches that affect management decisions, cultivating an ecosystem perspective and sustainable development ethic against which current environmental challenges are discussed. Topics include applications of environmental operations management tools for business/project planning, operations, monitoring, and evaluation.

**POM 119  
SPECIAL TOPICS IN  
PRODUCTION AND  
OPERATIONS MANAGEMENT  
3 units**

**Pre-requisite: POM 101  
or POM 102 or POM 104  
or POM 105**

This course introduces particular areas in operations that are of current importance and relevance. Speakers with particular expertise and experience are invited to discuss the latest developments in

production and operations management. Field trips and plant tours may be scheduled to present real life applications.

**POM 120  
SUPPLY CHAIN  
MANAGEMENT  
3 units**

**Pre-requisite: POM 101  
or POM 102 or POM 104  
or POM 105**

This course studies the supply chain management as the integration of all production activities done, from procurement, transformation of materials into finished goods, and delivery. Topics include the traditional purchasing function, inventory decisions, distribution, and other activities that are important in supply and distribution decisions.

**POM 121  
PRODUCTION PLANNING  
AND INVENTORY CONTROL  
3 units**

**Pre-requisite: POM 101  
or POM 102 or POM 104  
or POM 105**

This course studies production planning, focusing on optimizing resources in transforming raw materials into finished goods. Topics include the effective use and control of these resources, inventory control, and the integration of the two functions in helping operations personnel manage production, given resource constraints.

**POM 123  
QUALITY AND  
PRODUCTIVITY  
3 units**

**Pre-requisite: POM 101  
or POM 102 or POM 104  
or POM 105**

This course is a study of quality and productivity programs for gaining a competitive advantage or as a means of survival. Different tools and techniques

that are used in the improvement of productivity and quality in both service and manufacturing operations are discussed.

**POM 125  
BUSINESS PROCESS  
RE-ENGINEERING**

**3 units**

**Pre-requisite: POM 101  
or POM 102 or POM 104  
or POM 105**

This course is a study of the fundamentals of redesigning existing business processes and operating structures, covering the core elements and general models of BPR. Cases featuring successful re-engineering programs of different companies are also discussed.

**POM 130  
PRODUCT DEVELOPMENT**

**3 units**

This course introduces the techniques in developing consumer products, blending the perspectives of marketing, product development, and manufacturing. Topics include development processes and the various organizational units involved, gaining consumer insight and converting these into technical specifications, development and testing of concepts/prototypes, and market delivery.

**POM 150  
INTRODUCTION TO  
SIX-SIGMA FOR PROCESS  
IMPROVEMENT**

**3 units**

**Pre-requisite: POM 102 or  
POM 104 or POM 105**

This course is an introduction to the Six-Sigma methods for improving business processes with the goal of increasing both customer satisfaction and the organization's financial health. Topics include the principles of Six-Sigma, the methodology of

DMAIC, design for Six-Sigma, and Six-Sigma implementation.

**POM 199  
SPECIAL TOPICS IN  
PRODUCTION AND  
OPERATIONS MANAGEMENT**

**3 units**

This course is a study of emerging issues and trends in production and operations management that are of importance and of general interest.

**POM 199.2  
SPECIAL TOPICS IN  
PRODUCTION AND  
OPERATIONS  
MANAGEMENT: PROJECT  
MANAGEMENT  
FUNDAMENTALS**

**3 units**

This course is an overview of project management focusing on project initiation and control. Topics include the different project types; the project life cycle; and the intricacies of defining and monitoring project details—through work breakdown structures, the precedence diagramming method, and earned value analysis.

**POM 199.3  
SPECIAL TOPICS IN  
PRODUCTION AND  
OPERATIONS  
MANAGEMENT: PROJECT  
MANAGEMENT TOOLS AND  
TECHNIQUES**

**3 units**

This course discusses the technical and social aspects of project management. Focus is on analytical frameworks and tools in project management for the successful planning and execution of initiatives such as research, marketing campaigns, product development, business process reengineering, construction, mergers, acquisitions, and corporate restructuring.

**POM 199.4  
SPECIAL TOPICS IN  
PRODUCTION AND  
OPERATIONS  
MANAGEMENT: MANAGING  
PROJECT TEAMS**

**3 units**

This course is an overview of team management, focusing on how teams are formed and assessed and how its individual members are managed. Topics include the basic concepts of the People Capability Maturity Model and the importance of leadership and communication in building successful teams.

**POM 199.5  
SPECIAL TOPICS IN  
PRODUCTION AND  
OPERATIONS  
MANAGEMENT: STRATEGIC  
PROJECT MANAGEMENT**

**3 units**

**Pre-requisites: POM 199.2,  
POM 199.3**

This course is an introduction to the development and use of a strategic design and management framework. Topics include situation and stakeholder analysis, change management, and the critical evaluation of project results.

**POM 199.6  
SPECIAL TOPICS IN  
PRODUCTION AND  
OPERATIONS  
MANAGEMENT: SERVICE  
MANAGEMENT**

**3 units**

**Pre-requisite: POM 102 or  
POM 104 or POM 105**

This is a course on the effective management of service operations which requires specialized analytical frameworks and tools. Focus is on simple models and the underlying economics of the service operations being considered.

**QMT 11  
BUSINESS STATISTICS  
3 units**

**Pre-requisite: MA 19**

This course is an introduction to the methods of statistical analysis for application in various fields, focusing on statistical reasoning and primary statistical techniques used in solving managerial problems. Emphasis is on statistical description, statistical induction, time series analysis, and analysis of statistical relationships.

**QMT 12  
BUSINESS STATISTICS AND  
RESEARCH METHODS  
3 units**

**Pre-requisite: MA 11 or MA 19**

This course studies the basic concepts and quantitative techniques used in statistical analysis toward the application of these principles in specific problems in managerial research and decision making, and in other fields that require the proper collection, processing, analysis, and interpretation of numerical data.

**QMT 109  
BUSINESS RESEARCH AND  
STATISTICAL MODELING  
3 units**

**Pre-requisite: MA 151**

This course discusses business research tools and approaches in capturing the behavior of observed phenomena or variables using statistical modeling techniques. Topics include formulation of the research problem, data analysis using inferential statistics, and multivariate modeling techniques with emphasis on model building and validation.

**QMT 113  
SAMPLING AND DESIGN OF  
EXPERIMENTS  
3 units**

**Pre-requisite: STAT 109**

This is a seminar course on experimental and survey designs and the skills needed in analyzing the data from these sources, which include censuses, sample surveys, experiments, and office records.

**QMT 114  
STATISTICAL QUALITY  
CONTROL  
3 units**

**Pre-requisites: STAT 109  
or QMT 11; POM 101 or  
POM 102 or POM 104 or  
POM 105**

This course is a study of how statistical quality control (SQC) can settle problems among the engineering, production, and inspection areas. Topics include the use of Shewhart control charts in manufacturing and non-manufacturing applications, concepts of acceptance sampling, and a brief introduction to ISO 9000X.

**QMT 119  
ADVANCED QUANTITATIVE  
METHODS  
3 units**

**Pre-requisites: QMT 128; STAT  
109 or QMT 12; QMT 127**

This course supplements learning from other quantitative courses such as statistics and operations research to further develop analytical thinking skills. Topics include game theory, heuristics, engineering economy, non-linear programming, and graph theory; and other issues related to testing, controls, and implementation of solutions.

**QMT 120  
BASIC PRINCIPLES OF  
OPERATIONS RESEARCH  
3 units**

**Pre-requisite: QMT 11 or STAT  
109 or STAT 107**

This course introduces operations research (OR) as a management discipline, with a discussion on the management situations that

give rise to the practice of this management science, and specific cases and illustrative examples of common actual OR-oriented approaches and techniques used in these situations.

**QMT 121  
LINEAR PROGRAMMING  
3 units**

**Pre-requisite: QMT 11  
or STAT 109**

This course introduces the quantitative approach to management. Topics include the situations in which operations research (OR) can be applied; the models that can be used, starting with basic linear programming (LP); the simplex method and its extensions; other algorithms and models; and graph theory.

**QMT 122  
LINEAR PROGRAMMING  
APPLICATIONS  
3 units**

**Pre-requisite: QMT 121**  
*Intended for non-Management  
Engineering majors, the course  
assumes a base knowledge of  
linear programming (LP).*

This course studies the applications of linear programming and the Operations Research process. The case method is applied and the use of computers for solving LP problems is introduced. Projects or actual studies may be required and implementation concerns and issues are discussed.

**QMT 123  
OPERATIONS RESEARCH  
APPLICATION  
3 units**

**Pre-requisite: QMT 120**

This course is a further study of operations research in which real-life cases are discussed and related to additional OR models. This course covers approaches that expand the scope, knowledge, and skills to instinctively recognize

management situations where OR techniques can be prescribed and applied.

**QMT 127**  
**INTERMEDIATE OPERATIONS RESEARCH**

**3 units**

**Pre-requisites: MA 22, STAT 109**

This course is a quantitative approach to management that introduces the general quantitative approach, and the requisites of problems and situations where OR can be applied; presentations of pertinent models that can be used, starting with basic problems of linear programming.

**QMT 128**  
**ADVANCED OPERATIONS RESEARCH**

**3 units**

**Pre-requisite: QMT 127**

This course is a further study of operations research. Topics include other models that serve as examples of a different discipline and different solution approaches; certain theoretical derivations, with a focus on the reality, problems, controls, and other considerations for implementation of the determined solutions.

**QMT 129**  
**OPERATIONS RESEARCH MODELING APPLICATION**

**3 units**

**Pre-requisite: QMT 128**

This is a capstone course for the OR or quantitative management series. This course exposes students to more varied types of problems, to motivate them to be creative and extrapolative in deriving new models for consideration, and to strengthen their skills in controls and implementation.

**QMT 199**  
**SPECIAL TOPICS IN QUANTITATIVE METHODS**

**3 units**

This course is a study of emerging issues and trends in quantitative techniques for decision making that are of importance and of great interest.

**QMT 199.2**  
**RESEARCH METHODS AND BUSINESS MODELING TECHNIQUES**

**3 units**

This course discusses the various approaches to undertaking business research and capturing the behavior of observed phenomena using statistical modeling techniques. Topics include formulation of the research problem, data collection, multivariate modeling techniques for data analysis, and interpretation. Emphasis is on model building and validation.





*the*  
SCHOOL  
*of* SCIENCE  
*and* ENGINEERING

Evangeline P. Bautista, Ph. D.  
*DEAN*





# SCI 10 SCIENCE AND SOCIETY

## *Biology*

Ronie J. Calugay  
Ma. Katrina C. Canlas  
Roland Allan L. Cruz  
Marc P. Gellynck  
Catherine Genevieve B. Lagunzad  
Zomesh A. Maini  
Janice A. Ragaza

## *Chemistry*

Nina Rosario L. Rojas

## *Electronics, Computer and Communications Engineering*

Nathaniel Joseph C. Libatique  
Catherine Manuela L. Ramos

## *Environmental Science*

James Michael L. Araneta  
Emilyn Q. Espiritu  
Abigail Marie T. Favis  
Charlotte Kendra Z. Gotangco  
Jewel Racquel S. Unson

## *Health Sciences*

Genejane M. Adarlo  
Norman Dennis E. Marquez  
Lua Pottier  
Brian Karlo W. Zuñiga

## *Information Systems and Computer Science*

Reinabelle C. Reyes

## *Physics*

Raphael A. Guerrero  
Michael Paul A. Jallorina  
Joel T. Maquiling  
Gemma Teresa T. Narisma

Science and Society is an integrative natural science course designed and taught by faculty members of the Departments of Biology, Chemistry, Electronics, Computer and Communications Engineering, Environmental Science, Health Sciences, Information Systems and Computer Science, and Physics.

The objective of this course is to present a synthesis of the most significant scientific principles of modern times, and in doing so, discuss the impact of science on culture and society. The approach is interdisciplinary and covers the various sciences, including physics, biology, chemistry, and earth and environmental science, as well as their sub-disciplines such as cosmology, material science, and molecular biology. In the process, the course aims to provide a more holistic understanding of the nature of science and technology, as contextualized along with social, cultural, economic, political, and ethical dimensions of society.

In line with the Ateneo LS vision, examples show the global nature of S&T and how these affect the country and the Asian region, and bring into focus the values that a Filipino, Catholic, and Jesuit center of excellence of higher learning upholds. Activities highlight the opportunities for transforming social habits and cultural mindsets.

The course consists of lectures and special seminars, case studies, readings, discussions, and written and oral papers. Prerequisite is any two other science courses, including Natural Science courses.



First Pacific Center for Biological Science  
(632) 426-6001 loc. 5610  
fax: (632) 426-1034  
biology.ose@ateneo.edu  
<http://www.admu.edu.ph/l/ose/biology>

## BIOLOGY

**Merab A. Chan**  
*Chair*

**Faculty**  
***Associate Professor***  
Hendrik Freitag

***Assistant Professors***  
Ronie J. Calugay  
Merab A. Chan  
Arni E. Gambe-Gilbuena  
Catherine Genevieve B. Lagunzad  
Crisanto M. Lopez  
Vivian A. Panes  
Nordalyn B. Pedroche  
Janice A. Ragaza  
Neil H. Tan Gana

***Instructors***  
Rhea G. Abisado  
Jo Marie V. Acebes  
Maria Katrina C. Canlas  
Ronald Allan M. Cruz  
Adria Rae Abigail R. Eda  
Zomesh A. Maini  
Jan Lorie M. Robil  
Jonathan Patrick H. Yan

***Lecturers***  
Rowena R. Antemano  
Cara Paulina G. Chuidian  
Stephen Michael H. Co  
Rosa Paula O. Cuevas  
David Michael D. Dingcong  
Cristina M. Garcia  
Marc P. Gellynck  
Pia Clarisse R. Gulpeo  
Howell T. Ho  
Paulo Rafael S. Joson  
Joanna M. Padolina  
Braylien W. Siy  
Tristan M. Tengco  
Abigail Loren T. Uy

The Department of Biology is recognized for its excellence in developing students who would eventually pursue studies and professions in medicine, biological research, industry, consultancy, and the academe, among others. It is a closely knit community of students, faculty, staff, and alumni dedicated to studying and immersing themselves in the various biological disciplines. It currently offers two undergraduate honors courses: BS Biology and BS Life Sciences.

The Department of Biology envisions itself as the premier provider of excellent education and research in biomedical sciences, biotechnology, ecology and systematics, microbiology, molecular biology, and bioeducation, applying a holistic, rigorous and innovative approach to the biological sciences. Its alumni become prime movers and leaders in medicine, research, industry, and the academe, working toward nation-building from a Filipino, Catholic, and Jesuit perspective. As an innovative center of learning, teaching, and research in the life sciences, it is dedicated to serve the University, the country, and all of humanity for the greater glory of God.

## BACHELOR OF SCIENCE IN BIOLOGY

BS Biology is a 5-year undergraduate honors program that provides a holistic and rigorous approach to the biological sciences. The curriculum covers the most essential concepts, principles, and theories of biology across a diverse range of disciplines through innovative lecture and laboratory courses. The program offers its students both the Thesis and Practicum options, the latter of which would allow them to do laboratory or field research work in an affiliated institution. The Junior Term Abroad (JTA) Program is also now available to BS Biology majors, with affiliates in Asia, America, and Europe prepared to accommodate the students in their laboratories. The BS Biology program provides the most comprehensive preparation for further education, including medical studies; virtually 100% of our medically inclined graduates have enrolled in one of the top medical schools in the country and even abroad. Graduate research programs are also a common option for our majors. Our alumni are enjoying success in their respective fields, be it in medicine, research, industry, or the academe.

### FIRST YEAR

<u>First Semester</u>		<u>Units</u>	<u>Second Semester</u>		<u>Units</u>
EN 11	Communication in English I	3	EN 12	Communication in English II	3
LIT 13	Introduction to Fiction	3	LIT 14	Introduction to Poetry and Drama	3
FIL 11	Sining ng Pakikipagtalastasan sa Filipino I	3	FIL 12	Sining ng Pakikipagtalastasan sa Filipino II	3
MA 18A	Principles of Modern Mathematics I	3	MA 20.3A	Applied Calculus for Life Sciences I	3
BI 100	General Biology I, Lecture	3	BI 101	General Biology II, Lecture	3
BI 100.1	General Biology I, Laboratory	2	BI 101.1	General Biology II, Laboratory	2
PE 1	Physical Education	(2)	PE 2	Physical Education	(2)
INTAC 1	Introduction to Ateneo Culture and Traditions	(0)	INTAC 2	Introduction to Ateneo Culture and Traditions	(0)
<b>Total:</b>		<b>17</b>	<b>Total:</b>		<b>17</b>

### SECOND YEAR

<u>First Semester</u>		<u>Units</u>	<u>Second Semester</u>		<u>Units</u>
TH 121	An Introduction to Doing a Catholic Theology	3	HI 16/HI 18	Asian History/Western History	3
FIL 14	Panitikan ng Pilipinas	3	SA 21	Introduction to Sociology and Anthropology	3
MA 20.3B	Applied Calculus for Life Sciences II	3	BI 130	Genetics, Lecture	2
CH 7	General Chemistry I, Lecture	3	BI 130.1	Genetics, Laboratory	1
CH 8	General Chemistry I, Laboratory	2	BI 150	Comparative Vertebrate Anatomy, Lecture	2
BI 120	Introduction to Microbiology, Lecture	2	BI 150.1	Comparative Vertebrate Anatomy, Laboratory	1
BI 120.1	Introduction to Microbiology, Laboratory	1	CH 21	Survey of Organic Chemistry, Lecture	3
PE 3	Physical Education	(2)	CH 22.2	Survey of Organic Chemistry, Laboratory	2
NSTP 1	National Service Training Program	(3)	PE 4	Physical Education	(2)
<b>Total:</b>		<b>17</b>	NSTP 2	National Service Training Program	(3)
			<b>Total:</b>		<b>17</b>

### THIRD YEAR

<u>Summer</u>		<u>Units</u>
BI 170	Ecology, Lecture	3
BI 170.1	Ecology, Laboratory	2
PSY 101	General Psychology	3
<b>Total:</b>		<b>8</b>

<u>First Semester</u>		<u>Units</u>	<u>Second Semester</u>		<u>Units</u>
PH 101	Philosophy of the Human Person I	3	HI 165	Rizal and the Emergence of the Philippine Nation	3
TH 131	Marriage, Family Life and Human Sexuality in a Catholic Perspective	3	PH 102	Philosophy of the Human Person II	3
BI 151	Plant Morpho-Anatomy, Lecture	2	FLC	Foreign Language and Culture	3
BI 151.1	Plant Morpho-Anatomy, Laboratory	1	BI 140	Cell and Molecular Biology, Lecture	2
CH 151	Biochemistry, Lecture	3	BI 140.1	Cell and Molecular Biology, Laboratory	1
CH 152	Biochemistry, Laboratory	2	PS 11	General Physics I for the Life Sciences, Lecture	3
BI 102	Biostatistics	3	PS 11.1	General Physics I for the Life Sciences, Laboratory	1
<b>Total:</b>		<b>17</b>	BI ELECTIVE 1		3
			<b>Total:</b>		<b>19</b>

### FOURTH YEAR

<u>First Semester</u>		<u>Units</u>	<u>Second Semester</u>		<u>Units</u>
PH 103/	Philosophy of Religion/	3	PH 103/	Philosophy of Religion/	3
PH 104	Foundations of Moral Value		PH 104	Foundations of Moral Value	
TH 141/	A Theology of the Catholic Social Vision/		TH 141/	A Theology of the Catholic Social Vision/	
TH 151	The Catholic Commitment of		TH 151	The Catholic Commitment of	

Today's Filipino: A Synthesis	3	Today's Filipino: A Synthesis	3
BI 160 Developmental Biology, Lecture	2	PS 12 General Physics II for the Life Sciences, Lecture	3
BI 160.1 Developmental Biology, Laboratory	1	PS 12.1 General Physics II for the Life Sciences, Laboratory	1
HI 166 Philippine History	3	BI 171 Principles of Systematics, Lecture	2
BI ELECTIVE 2	3	BI 171.1 Principles of Systematics, Laboratory	1
BI ELECTIVE 3	3	BI 190 Research Methods in Biology	1
		BI ELECTIVE 4	3
	<b>Total: 18</b>		<b>Total: 17</b>

## FIFTH YEAR

<u>Summer</u>	<u>Units</u>
BI 191/ Bioresearch I /	2/
BI 194 Practicum I*	3
	<b>Total: 2/3</b>

<u>First Semester</u>	<u>Units</u>	<u>Second Semester</u>	<u>Units</u>
EC 102 Basic Economics, Agrarian Reform and Taxation	3	POS 100 Politics and Governance	3
BI 182 Plant Physiology, Lecture	2	BI 183 Animal Physiology, Lecture	2
BI 182.1 Plant Physiology, Laboratory	1	BI 183.1 Animal Physiology, Laboratory	1
BI 192/ Bioresearch II/	2/	BI 193 Bioresearch III (for thesis option only)	1
BI 195 Practicum II*	1	BI ELECTIVE 7	3
BI ELECTIVE 5	3	BI ELECTIVE 8	3
BI ELECTIVE 6	3	FREE ELECTIVE 2	3
FREE ELECTIVE 1	3		<b>Total: 16</b>
	<b>Total: 17/16</b>		

## GRAND TOTAL

**182/181 UNITS**

Total Number of Academic Units: 181/182  
 2-Unit Lecture Courses correspond to 2 hours per week (1 unit = 1 hour)  
 1-Unit Laboratory Courses correspond to 2 hours per week  
 2-Unit Laboratory Courses correspond to 4 hours per week  
 \*The student has a choice of following a Thesis or Practicum option  
 Curriculum Effective Freshman Batch SY 2013-2014

## BACHELOR OF SCIENCE IN LIFE SCIENCES

BS Life Sciences is a 4-year undergraduate honors program that provides more specialized training in the biological sciences. Majors choose from among Specializations, namely: 1) Biomedical Science, 2) Ecology and Systematics, 3) Microbiology, and 4) Molecular Biology and Biotechnology. These being the research areas of the Department, the majors are given rigorous training through innovative lecture and laboratory courses and through the undergraduate Thesis. The Junior Term Abroad (JTA) Program is also now available to BS Life Sciences majors, with affiliates in Asia, America, and Europe prepared to accommodate the students in their laboratories. The specialization of the BS Life Sciences majors allows them to excel in particular biological fields and prepares them for careers in these disciplines. The program produces the best researchers, practitioners, and educators with interests in medicine, biodiversity and conservation, microbiology, and molecular biology.

## FIRST YEAR

<u>First Semester</u>	<u>Units</u>	<u>Second Semester</u>	<u>Units</u>
EN 11 Communication in English I	3	EN 12 Communication in English II	3
LIT 13 Introduction to Fiction	3	LIT 14 Introduction to Poetry and Drama	3
FIL 11 Sining ng Pakikipagtalastasan sa Filipino I	3	FIL 12 Sining ng Pakikipagtalastasan sa Filipino II	3
MA 18A Principles of Modern Mathematics I	3	CH 7 General Chemistry I, Lecture	3
BI 100 General Biology I, Lecture	3	CH 8 General Chemistry I, Laboratory	2
BI 100.1 General Biology I, Laboratory	2	BI 101 General Biology II, Lecture	3
PE 1 Physical Education	(2)	BI 101.1 General Biology II, Laboratory	2
INTAC 1 Introduction to Ateneo Culture and Traditions	(0)	PE 2 Physical Education	(2)
	<b>Total: 17</b>	INTAC 2 Introduction to Ateneo Culture and Traditions	(0)
			<b>Total: 19</b>

## SECOND YEAR

<u>Summer</u>	<u>Units</u>
MA 20.3A Applied Calculus for Life Sciences I	3
PSY 101 General Psychology	3
	<b>Total: 6</b>

<u>First Semester</u>		<u>Units</u>	<u>Second Semester</u>		<u>Units</u>
TH 121	An Introduction to Doing a Catholic Theology	3	HI 16/ HI 18	Asian History/Western History	3
FIL 14	Panitikan ng Pilipinas	3	CH 151	Biochemistry, Lecture	3
CH 21	Survey of Organic Chemistry, Lecture	3	CH 152	Biochemistry, Laboratory	2
CH 22.2	Survey of Organic Chemistry, Laboratory	2	SA 21	Introduction to Sociology and Anthropology	3
BI 120	Introduction to Microbiology, Lecture	2	BI 130	Genetics, Lecture	2
BI 120.1	Introduction to Microbiology, Laboratory	1	BI 130.1	Genetics, Laboratory	1
BI 102/	Biostatistics/		PS 11	General Physics I for the Life Sciences, Lecture	3
STAT 105	Statistics for Life Sciences	3	PS 11.1	General Physics I for the Life Sciences, Laboratory	1
PE 3	Physical Education	(2)	PE 4	Physical Education	(2)
NSTP 1	National Service Training Program	(3)	NSTP 2	National Service Training Program	(3)
		<b>Total: 17</b>			<b>Total: 18</b>

### THIRD YEAR

<u>Summer</u>		<u>Units</u>
BI 170	Ecology, Lecture	3
BI 170.1	Ecology, Laboratory	2
BI SPECIALIZATION COURSE 1*		3
		<b>Total: 8</b>

<u>First Semester</u>		<u>Units</u>	<u>Second Semester</u>		<u>Units</u>
PH 101	Philosophy of the Human Person I	3	PH 102	Philosophy of the Human Person II	3
TH 131	Marriage, Family Life and Human Sexuality in a Catholic Perspective	3	HI 165	Rizal and the Emergence of the Philippine Nation	3
BI 140	Cell and Molecular Biology, Lecture	2	BI SPECIALIZATION COURSE 3*		3
BI 140.1	Cell and Molecular Biology, Laboratory	1	BI 150	Comparative Vertebrate Anatomy, Lecture	2
BI 160	Developmental Biology, Lecture	2	BI 150.1	Comparative Vertebrate Anatomy, Laboratory	1
BI 160.1	Developmental Biology, Laboratory	1	BI 171	Principles of Systematics, Lecture	2
BI 197	Bioseminar Lecture	2	BI 171.1	Principles of Systematics, Laboratory	1
BI SPECIALIZATION COURSE 2*		3	BI 190	Research Methods in Biology	1
		<b>Total: 17</b>	FLC	Foreign Language and Culture	3
					<b>Total: 19</b>

### FOURTH YEAR

<u>Summer</u>		<u>Units</u>
BI 191	Bioresearch I	2
BI SPECIALIZATION COURSE 4*		3
		<b>Total: 5</b>

<u>First Semester</u>		<u>Units</u>	<u>Second Semester</u>		<u>Units</u>
PH 103/	Philosophy of Religion/		PH 103/	Philosophy of Religion/	
PH 104	Foundations of Moral Value	3	PH 104	Foundations of Moral Value	3
TH 141/	A Theology of the Catholic Social Vision/		TH 141/	A Theology of the Catholic Social Vision/	
TH 151	The Catholic Commitment of Today's Filipino: A Synthesis	3	TH 151	The Catholic Commitment of Today's Filipino: A Synthesis	3
EC 102	Basic Economics, Agrarian Reform and Taxation	3	POS 100	Politics and Governance	3
BI 192	Bioresearch II	2	HI 166	Philippine History	3
	BI SPECIALIZATION COURSE 5*	3	BI 193	Bioresearch III	1
	FREE ELECTIVE 1	3		BI SPECIALIZATION COURSE 6*	3
		<b>Total: 17</b>		FREE ELECTIVE 2	3
					<b>Total: 19</b>
<b>GRAND TOTAL</b>					<b>162 UNITS</b>

Total Number of Academic Units: 162

2-Unit Lecture Courses correspond to 2 hours per week (1 unit = 1 hour)

2-Unit Laboratory Courses correspond to 4 hours per week

\*The student may choose from a list of electives depending on their major area of specialization

Curriculum Effective Freshman Batch SY 2013-2014

## COURSE OFFERINGS

### BI 5 BIOTECHNOLOGY FOR EVERYONE, LECTURE

**3 units**

This course introduces the scientific basis, historical development, and current

applications of traditional and modern biotechnology focusing on the application of biotechnology in food, agriculture, industry, environment, forensics, health, and medicine. Emphasis is on

ethical and moral issues brought about by these applications.

### BI 6 BIOTECHNOLOGY FOR EVERYONE, LABORATORY

**1 unit**

This course introduces the scientific basis, historical development and current applications of traditional and modern biotechnology. It will focus on the application of biotechnology in food, agriculture, industry, environment, forensics, health, and medicine.

**BI 7**  
**AN INTRODUCTION TO THE PLANT WORLD, LECTURE**  
**3 units**

This course is an introduction to the different aspects of plant form, structure, and development as it affects life, people, and the environment.

**BI 8**  
**AN INTRODUCTION TO THE PLANT WORLD, LABORATORY**  
**1 unit**

This course is an introduction to the different aspects of plant form, structure, and development as it affects life, people, and the environment.

**BI 9**  
**AN INTRODUCTION TO THE ANIMAL WORLD, LECTURE**  
**3 units**

This course is an integrated approach to the study of the unity and diversity of animal life including the application of these basic principles to man's development as a person.

**BI 10**  
**AN INTRODUCTION TO THE ANIMAL WORLD, LABORATORY**  
**1 unit**

This course is an integrated approach to the study of the unity and diversity of animal life including the application of these basic principles to man's development as a person.

**BI 14**  
**THE BIOLOGY OF SCIENCE FICTION**

**3 units**

**Prerequisites:** Lit 13; at least one (1) of the following Biology natural sciences courses: Bi 5/6, Bi 7/8, Bi 9/10, or any officially credited equivalent thereof, such as higher biology courses; or consent of the adviser.

This three-unit course is a joint offering of the Departments of Biology and English. The course deals with the critical analysis and discussion of science fiction and of the biological basis behind popular trends in the genre.

**BI 15**  
**GENERAL BIOLOGY, LECTURE**

**3 units**

**Pre-requisite:** General Chemistry  
**Co-requisite:** BI 15.1

This course is an introduction to the fundamental principles of biology. The course covers the diversity of life, environmental and biological diversity, population and community ecology, evolutionary theory, cellular reproduction, and principles of genetics.

**BI 15.1**  
**GENERAL BIOLOGY, LABORATORY**

**2 units**

**Co-requisite:** BI 15

This is a laboratory component that complements the lecture material through observation, experimentation, and when appropriate, dissection of representative organisms. The laboratory course involves students in problem-solving and discovery.

**BI 17**  
**BIOSCIENCE ENTERPRISE**

**3 units**

**Pre-requisites:** BI 5, BI 6, BI 7, BI 8, BI 9, BI 10, BI 100, BI 100.1, or BI 101, BI 101.1, or Consent of the instructor

This course provides interdisciplinary education for bioentrepreneurs and future leaders in the life sciences. It covers an overview of the latest advances in biological and medical science, together with business management and the ethical, legal, and regulatory issues associated with bringing scientific advances to market.

**BI 18**  
**AQUATIC ANIMAL NUTRITION**

**3 units**

**Pre-requisites:** BI 9 and BI 10 or BI 101 and BI 101.1, CH 1, CH 2, or Consent of the instructor

This course focuses on the basic principles and applications of aquatic animal nutrition. It emphasizes on digestive anatomy, nutrient requirement, and feeding standards for different marine and freshwater species for growth, maintenance, and reproduction. Current trends in the Philippine aquaculture industry are also discussed.

**BI 21**  
**COMPARATIVE VERTEBRATE ANATOMY, LECTURE**

**3 units**

**Co-requisite:** BI 21.1

This course deals with important principles and theories with emphasis on the study of comparative anatomy, phylogeny and an introduction to relationship in structure, function and evolution in vertebrates.

**BI 21.1**  
**COMPARATIVE VERTEBRATE ANATOMY, LABORATORY**

**2 units**

**Co-requisite:** BI 21



This course is the laboratory component of Bi 21. The course deals with principles and theories with emphasis on the study of comparative anatomy, phylogeny and an introduction to relationship in structure, function and evolution in vertebrates.

**BI 100**  
**GENERAL BIOLOGY I,**  
**LECTURE**  
**3 units**

**Co-requisite: BI 100.1**

This course provides the basic concepts of botany. The course is an introduction to plants, including their structural and functional adaptations to the environment, genetic and ecological relationships, evolutionary development, and significant role in the biosphere. Students learn to appreciate the relevance of plants, which are vital to the welfare of nearly all organisms.

**BI 100.1**  
**GENERAL BIOLOGY I,**  
**LABORATORY**  
**2 units**

**Co-requisite: BI 100**

This course provides the basic concepts of botany. The course is an introduction to plants, including their structural and functional adaptations to the environment, genetic and ecological relationships, evolutionary development, and significant role in the biosphere. Students learn to appreciate the relevance of plants, which are vital to the welfare of nearly all organisms.

**BI 101**  
**GENERAL BIOLOGY II,**  
**LECTURE**  
**3 units**

**Co-requisite: BI 101.1**

This course deals with the diversity of form and function in the animal kingdom. The major topics of discussion are animal

taxonomy and biodiversity, and structure-function relationships as seen from the cellular to the organismic level.

**BI 101.1**  
**GENERAL BIOLOGY II,**  
**LABORATORY**  
**2 units**

**Co-requisite: BI 101**

This course deals with the diversity of form and function in the animal kingdom. The major topics of discussion are animal taxonomy and biodiversity, and structure-function relationships as seen from the cellular to the organismic level.

**BI 102**  
**BIOSTATISTICS, LECTURE**  
**3 units**

**Pre-requisites: BI 100, BI 101, MA 18A, or Consent of instructor**

This course covers the descriptive and inferential statistical methods used in the collection, tabulation, analysis, and interpretation of biological data. Emphasis is also given to the analysis of parametric and non-parametric data obtained from real-life experiments.

**BI 105**  
**ENTOMOLOGY, LECTURE**  
**3 units**

**Pre-requisite: BI 100, or BI 101 or Consent of instructor**

This course discusses the biology and diversity of insects, including species that act as vectors for some of the important human diseases. Current trends in the collection and cataloguing of insect diversity and in the biological control of these vectors are also discussed.

**BI 106**  
**PROTOZOOLOGY, LECTURE**  
**3 units**

**Pre-requisites: BI 100, BI 100.1, or consent of the adviser**

This course deals with the systematics, ecology, and life cycles of the diverse protozoans

(unicellular eukaryotes), with particular emphasis on those that cause disease to humans.

**BI 107**  
**HELMINTHOLOGY, LECTURE**  
**3 units**

**Pre-requisites: BI 100, BI 100.1, or consent of the adviser**

This course deals with the anatomy and physiology of medically important worms (cestodes, trematodes, nematodes) and the epidemiology and treatment of diseases caused by these organisms, particularly in the tropics.

**BI 110**  
**BIOETHICS IN BIOMEDICAL**  
**RESEARCH, LECTURE**  
**3 units**

**Pre-requisites: BI 100, BI 100.1, or consent of the adviser**

This course covers currently accepted international ethical standards and guidelines in experiments involving humans and other animals. As such, existing laws and policies on animal welfare will be discussed. Ethical guidelines governing the practice of clinical trials are also introduced.

**BI 120**  
**INTRODUCTON TO**  
**MICROBIOLOGY, LECTURE**  
**2 units**

**Pre-requisites: BI 100, BI 100.1, BI 101 and BI 101.1, or Consent of instructor**

**Co-requisite: BI 120.1**

This is a course on the basic principles of microbiology covering cell structure and function, diversity, growth and metabolism, molecular biology and genetics, and ecology of both prokaryotic and eukaryotic microorganisms. Introductory topics on microbial biotechnology and medical and industrial microbiology are also presented.

**BI 120.1**  
**INTRODUCTION TO**  
**MICROBIOLOGY,**  
**LABORATORY**  
**1 unit**  
**Co-requisite: BI 120**  
 This is a course on the essential techniques in manipulating microorganisms and special techniques in handling microorganisms of medical and industrial importance. Topics include an introduction to specialized fields of microbiology.

**BI 121**  
**VIROLOGY, LECTURE**  
**3 units**  
**Pre-requisites: BI 120 and BI 120.1, or Consent of instructor**  
 This course discusses the important principles of virology. Topics include what viruses are and how they spread within individuals and populations; the molecular biology of viral replication; virus-host interactions; methods of diagnosis, detection, and control of viruses; emerging viruses; and current uses of viruses.

**BI 122**  
**BACTERIOLOGY LECTURE**  
**2 units**  
**Pre-requisites: BI 120, BI 120.1**  
**Co-requisite: BI 122.1**  
 This course is an advanced study of bacteria with emphasis on their interaction with other organisms, particularly humans.

**BI 122.1**  
**BACTERIOLOGY**  
**LABORATORY**  
**1 unit**  
**Co-requisite: BI 122**  
 This is a course on the techniques of bacterial isolation and identification. Basic aseptic techniques such as cultivation, transferring, and plating methods are reviewed. Morphological, cultural, and biochemical characteristics of bacteria are

studied in detail to aid in the identification of bacterial isolates.

**BI 123**  
**MYCOLOGY, LECTURE**  
**3 units**  
**Pre-requisites: BI 100, BI 101, or Consent of instructor**  
 This course focuses on the study of fungi, dealing specifically with its biology, diversity, taxonomy, and phylogeny. The emphasis is on their life cycles, genetics, evolution, morphology, ecology, and their interaction with and significance to plants, animals, man and medicine.

**BI 124**  
**PARASITOLOGY LECTURE**  
**2 units**  
**Pre-requisites: BI 100, BI 100.1, BI 101, BI 101.1, or Consent of instructor**  
**Co-requisite: BI 124.1**  
 This is a course on morphology and life histories of protozoa, helminth, and arthropod parasites, as well as host-parasite relationships and control.

**BI 124.1**  
**PARASITOLOGY**  
**LABORATORY**  
**1 unit**  
**Co-requisite: BI 124**  
 This is a course on morphology and the life histories of protozoa, helminth, and arthropod parasites, as well as host-parasite relationships and control.

**BI 125**  
**MEDICAL MICROBIOLOGY,**  
**LECTURE**  
**3 units**  
**Pre-requisite: BI 120 or Consent of instructor**  
 This course studies the mechanisms of bacterial, fungal, and viral pathogenesis; basis for antimicrobial resistance; emerging and rediscovered infectious agents; medical outbreaks; and topics from current medical research literature. Several small-

scale laboratory demonstrations are presented to focus on the diagnosis of infectious diseases.

**BI 126**  
**MICROBIAL ECOLOGY,**  
**LECTURE**  
**3 units**  
**Pre-requisites: BI 120, BI 120.1, or consent of the adviser**  
 This course deals with the basic principles of the inter-relationships of bacteria, virus, fungi, algae and protopzoa in natural environments. The interaction of microbes with animals and plants as well as the ecological significance of microbial activities are discussed.

**BI 127**  
**IMMUNOLOGY, LECTURE**  
**3 units**  
**Pre-requisites: BI 100, BI 100.1, BI 140, CH 7 and CH 8, or Consent of instructor**  
 This is a course on the components and aspects of the immune system (natural and adaptive) as well as the function of these components in both health and disease. It includes studies on autoimmune diseases, hypersensitivities, immune deficiency, immunotherapy, allograft, and the like.

**BI 128**  
**FOOD MICROBIOLOGY,**  
**LECTURE**  
**2 units**  
**Pre-requisites: BI 120, BI 120.1**  
**Co-requisite: BI 128.1**  
 This is a course on the factors affecting the growth and survival of microorganisms in food systems. Physical, chemical, and biological controls of microbial growth in food are discussed. Emphasis is given to beneficial uses of microorganisms in food production such as fermentation and preservation.

**BI 128.1****FOOD MICROBIOLOGY  
LABORATORY****1 unit****Pre-requisites:** BI 120, BI 120.1**Co-requisite:** BI 128

This course studies the techniques in isolation, detection, and cultivation of food-borne microorganisms. Emphasis is on procedures in qualitative and quantitative detection of specific microorganisms present in different types of food. Effects of microbial growth on the physico-chemical characteristics of different foods are also investigated.

**BI 129****INDUSTRIAL  
MICROBIOLOGY, LECTURE****3 units****Pre-requisites:** BI 120 and BI 120.1, or **Consent of instructor**

This course discusses the fundamental and applied aspects in industrial processes focusing on microorganisms of industrial importance; principles of screening and strain preservation; and fermentation processes for producing primary and secondary metabolites and other microbial products at laboratory, pilot, and industrial scales, including field studies.

**BI 130****GENETICS, LECTURE****2 units****Pre-requisites:** BI 100, BI 100.1, BI 101, BI 101.1, and CH 151, or**Consent of instructor****Co-requisite:** BI 130.1

This is a course is an introduction to the fundamental concepts and principles of genetics. Topics include genome organization, evolution, and medical genetics.

**BI 130.1****GENETICS, LABORATORY****1 unit****Pre-requisites:** BI 100, BI 100.1, BI 101, BI 101.1, and CH 151, or**Consent of instructor****Co-requisite:** BI 130

This course is an introduction to the fundamental concepts and principles of genetics. Topics include genome organization, evolution, and medical genetics.

**BI 131****MOLECULAR GENETICS****3 units****Pre-requisites:** BI 100, BI 100.1, BI 101, BI 101.1, BI 130, BI 130.1

This is a course on the molecular basis for heredity and how biological molecules interact and function to give rise to cells and complex living organisms. Topics include how genetic material is reproduced, inherited, and interpreted, and details of chromosome structure and function.

**BI 132****MICROBIAL GENETICS****LECTURE****3 units****Pre-requisites:** BI 120, BI 130, BI 140

This is a course on microbes as major agents of gene transfer. Topics include the various patterns of gene transfer in microorganisms, the principles of heredity, and the usefulness of microorganisms in the advances of recombinant DNA technology and gene cloning.

**BI 133****HUMAN GENETICS LECTURE****3 units****Pre-requisites:** BI 100, BI 100.1, BI 101, BI 101.1, BI 130 and BI 130.1

This course explores the foundations and frontiers of modern human genetics with an emphasis on understanding the latest discoveries in this rapidly changing field of research.

**BI 134****MEDICAL GENETICS,  
LECTURE****3 units****Pre-requisites:** BI 100, BI 100.1, BI 101, BI 101.1, BI 130 and BI 130.1

This is a course on the principles of genetics and the patterns of inheritance as they apply to humans, emphasizing common human genetic disorders, dysmorphic syndromes, inborn errors of metabolism, the diagnosis of certain disorders, and ethical dilemmas which arise from these conditions.

**BI 135****POPULATION GENETICS****LECTURE****3 units****Pre-requisites:** BI 130, BI 140

This is a course on mathematical and experimental approaches to the genetics of natural populations, especially as they relate to evolution. Emphasis is also given to the interrelationship of genetics to natural selection, inbreeding, gene flow, spontaneous mutations, and bottleneck effects.

**BI 136****MOLECULAR  
MICROBIOLOGY, LECTURE****3 units****Pre-requisites:** BI 120, BI 120.1, BI 140, BI 140.1, BI 121, of **consent of the instructor**

This course deals with the structures, properties, functions, and interactions of biomolecules in the cellular processes of microorganisms. The molecular bases of certain microbial phenomena are given emphasis. Current trends and/or breakthroughs in microbial cell biology and applications are also discussed.

**BI 140**  
**CELL AND MOLECULAR**  
**BIOLOGY LECTURE**  
**2 units**

**Pre-requisites:** BI 100, BI 100.1, BI 101, BI 101.1, or Consent of instructor

**Pre-/Co-requisites:** CH 21, CH 22  
This is a course on current models relating cell structure and function. The biomedical and morphological evidence upon which such models are based is critically evaluated. Discussions include molecular topics such as nucleotide biosynthesis and the structure, replication, transcription, and translation of nucleic acids.

**BI 140.1**  
**CELL AND MOLECULAR**  
**BIOLOGY LABORATORY**  
**1 unit**

**Co-requisite:** BI 140  
This is a course on current models relating cell structure and function. The biomedical and morphological evidence upon which such models are based is critically evaluated. Discussions include molecular topics such as nucleotide biosynthesis and the structure, replication, transcription, and translation of nucleic acids.

**BI 141**  
**BIOTECHNOLOGY LECTURE**  
**2 units**

**Pre-requisites:** BI 130, BI 140, BI 140.1, CH 151, and CH 152, or Consent of instructor.

**Co-requisite:** BI 141.1  
This is a course on the utilization of plant, animal, and microbial cells in producing beneficial products for the improvement of human life. Topics include molecular- and cellular-level manipulations to design and produce substances and/or organisms useful in solving crucial human problems.

**BI 141.1**  
**BIOTECHNOLOGY**  
**LABORATORY**  
**1 unit**

**Co-requisite:** BI 141  
This is a course on the utilization of plant, animal, and microbial cells in producing beneficial products for the improvement of human life. Topics include molecular- and cellular-level manipulations to design and produce substances and/or organisms useful in solving crucial human problems.

**BI 142**  
**INTRODUCTORY**  
**BIOINFORMATICS**  
**LECTURE**

**2 units**  
**Pre-requisites:** BI 101 and BI 101.1, or Consent of instructor  
**Co-requisite:** BI 142.1

This course is an overview of the interdisciplinary methods of solving biological problems involving sequences, proteins, and genomes, focusing on the functional applications rather than the theoretical aspects of the computational approaches.

**BI 142.1**  
**INTRODUCTORY**  
**BIOINFORMATICS**  
**LABORATORY**

**1 unit**  
**Co-requisite:** BI 142  
This course is an overview of the interdisciplinary methods of solving biological problems involving sequences, proteins, and genomes, focusing on the functional applications rather than the theoretical aspects of the computational approaches.

**BI 149**  
**CELL AND MOLECULAR**  
**BIOLOGY, LECTURE**  
**3 units**

This course is an introduction to cell and molecular biology that discusses the structure and function of the different

components of the cell at the molecular level as well as the interactions among cells. Fundamental principles on structure and organization of genes are also examined.

**BI 149.1**  
**CELL AND MOLECULAR**  
**BIOLOGY, LABORATORY**  
**2 units**

This course introduces students to the basic concepts involved in cell and molecular biology. The course provides hands-on exercises in microscopy, cell and tissue culture, isolation and characterization of biomolecules and basic techniques in molecular biology.

**BI 150**  
**COMPARATIVE VERTEBRATE**  
**ANATOMY, LECTURE**  
**2 units**

**Pre-requisites:** BI 100, BI 100.1, BI 101 and BI 101.1, or Consent of instructor

**Co-requisite:** BI 150.1  
This is a course on the important anatomical principles and theories with emphasis on the study of comparative anatomy, phylogeny, and an introduction to relationship in structure, function, and evolution in vertebrates.

**BI 150.1**  
**COMPARATIVE VERTEBRATE**  
**ANATOMY, LABORATORY**  
**1 unit**

**Pre-requisites:** BI 100, BI 100.1, BI 101, BI 101.1, or Consent of instructor

**Co-requisite:** BI 150  
This laboratory course provides skill-based learning of common techniques in anatomical laboratory work, as applied in the study of vertebrate form and function. Through dissections and comparison of various vertebrate specimens, evolutionary trends in this animal group are explored.

**BI 151**  
**PLANT MORPHO-ANATOMY**  
**LECTURE**  
**2 units**

**Pre-requisites:** BI 100, BI 100.1, BI 101 and BI 101.1, or Consent of instructor

**Co-requisite:** BI 151.1

This is a course on the external and internal organization and structure of seed plants with emphasis on angiosperms. Topics include the detailed structure of plant cells, tissues, and organs focused on the structural and functional specialization. The development of the seed plant is also covered.

**BI 151.1**  
**PLANT MORPHO-ANATOMY,**  
**LABORATORY**  
**1 unit**

**Pre-requisites:** BI 100, BI 100.1, BI 101, BI 101.1, or Consent of instructor

**Co-requisite:** BI 151

This laboratory course tackles the actual microscopic examination and characterization of cells and tissues of the root, stem, leaf, flower, fruit, and seeds. The different stages of plant organ development are traced. Macroscopic examination and diagnostic features of the plant organs are also observed.

**BI 152.1**  
**MICROSCOPY AND**  
**MICROTECHNIQUE,**  
**LABORATORY**  
**3 units**

**Pre-requisites:** BI 100, BI 100.1, BI 101, BI 101.1, or Consent of Instructor

This is a course on general and specific methods of preparing slides using different techniques. General and specific reagents are differentiated and the basic/general steps for slide processing are also discussed, including free-hand sectioning and sectioning using various techniques.

**BI 153.1**  
**HISTOLOGY,**  
**LABORATORY**  
**3 units**

**Pre-requisites:** BI 100, BI 100.1, BI 101, BI 101.1, or Consent of Instructor

This course provides a comparative study of the structure and function of mammalian tissues and organs using histochemistry, electron and light microscopy, and other imaging techniques.

**BI 154**  
**INVERTEBRATE ZOOLOGY,**  
**LECTURE**  
**3 units**

**Pre-requisites:** BI 100, BI 100.1, or Consent of Instructor

This course deals with the morphology, taxonomy, ecology, and physiology of representative invertebrates.

**BI 155**  
**HUMAN ANATOMY AND**  
**PHYSIOLOGY LECTURE**  
**3 units**

**Pre-requisites:** General Biology and General Chemistry

This course discusses the essential concepts of the structure and function of the human body and the mechanisms for maintaining homeostasis. Topics include cells and tissues, the different organ systems, and how they function and interact with each other. Certain disease processes may be discussed.

**BI 160**  
**DEVELOPMENTAL BIOLOGY,**  
**LECTURE**  
**2 units**

**Pre-requisites:** BI 100, BI 100.1, BI 101, BI 101.1, or Consent of instructor

**Co-requisite:** BI 160.1

This course discusses the principles of plant and animal development at the organismal and molecular levels. Emphasis is on the formation and

development of the germ layers and later organogenesis of representative types of plants and animals.

**BI 160.1**  
**DEVELOPMENTAL BIOLOGY,**  
**LABORATORY**  
**1 unit**

**Co-requisite:** BI 160

This course discusses the principles of plant and animal development at the organismal and molecular levels. Emphasis is on the formation and development of the germ layers and later organogenesis of representative types of plants and animals.

**BI 170**  
**ECOLOGY LECTURE**  
**3 units**

**Pre-requisites:** BI 100, BI 100.1, BI 101, BI 101.1

**Co-requisite:** BI 170.1

This is an introduction to basic ecological principles and concepts, providing training on sampling methodologies that the students need in studying and understanding the structure and function of natural and man-made ecosystems.

**BI 170.1**  
**ECOLOGY, LABORATORY**  
**2 units**

**Co-requisite:** BI 170

This is an introduction to basic ecological principles and concepts, providing training on sampling methodologies that the students need in studying and understanding the structure and function of natural and man-made ecosystems.

**BI 171**  
**PRINCIPLES OF**  
**SYSTEMATICS, LECTURE**  
**2 units**

**Pre-requisites:** BI 100, BI 100.1, BI 101, BI 101.1, or Consent of instructor

**Co-requisite:** BI 171.1



This is a course on modern systematic phylogeny schemes in determining evolutionary trends across the kingdoms of life using cladistics, morphometric analysis, and DNA and protein homologies.

**BI 171.1**  
**PRINCIPLES OF**  
**SYSTEMATICS, LABORATORY**  
**1 unit**

**Pre-requisites:** BI 100, BI 100.1, BI 101, BI 101.1, or Consent of instructor

**Co-requisite:** BI 171

This is a laboratory course on various taxonomic processes that include description, nomenclature, identification, and classification. Students train in field and laboratory procedures involved in the documentation of selected groups of microorganisms, plants, and animals.

**BI 172**  
**MARINE BIOLOGY**  
**3 units**

**Pre-requisites:** BI 170, BI 170.1 or Consent of Instructor

This course deals with the diversity and ecology of marine species across the biological Kingdoms. Marine organisms across habitats and the various ecological processes that affect them are discussed. Current issues in human impacts on the marine environment are also covered.

**BI 174**  
**ECOLOGY OF ANIMAL**  
**BEHAVIOR, LECTURE**  
**3 units**

**Pre-requisites:** BI 170 and BI 170.1, or Consent of instructor

This is a course on the integration of the principles of ecology, evolution, and animal behavior. The behavioral patterns of animals are discussed in the context of the evolution of traits in response to such ecological

processes as competition, predation, mating, and parental care.

**BI 175**  
**BIODIVERSITY**  
**3 units**

**Pre-requisites:** BI 170, BI 170.1, BI 171, BI 171.1

Biodiversity (BI 175) is a 3-unit lecture course that is designed to help students understand the processes involved in the development of the tremendous variety and variation of life; appreciate the nature and importance of genetic, species, ecosystem and cultural diversity; learn essential methods used in proper documentation of biological resources; and become aware of the issues on loss of global and local biodiversity.

**BI 176**  
**EVOLUTION**  
**3 units**

**Pre-requisites:** BI 130, BI 130.1, BI 150, BI 150.1

This is a course on evidences and principles involved in the evolution of plants and animals, including man. Emphasis is on the concepts and theories of modern evolutionary biology including the mechanism of genetic change in populations, speciation pattern, and geologic change through time.

**BI 177**  
**PRINCIPLES OF**  
**CONSERVATION BIOLOGY,**  
**LECTURE**  
**3 units**

**Pre-requisite:** BI 175 or consent of the instructor

This course deals with the maintenance, loss, and preservation of global and local biodiversity. The course stresses the multidisciplinary and rapid development in the search for solutions to problems in conservation biology. Special emphasis is on conservation

biology and sustainable development of biological resources in the Philippines.

**BI 178**  
**BIOGEOGRAPHY**  
**3 units**

**Pre-requisites:** BI 100, BI 100.1, BI 101, BI 101.1, BI 170, BI 170.1, BI 176, or Consent of the Instructor

This course deals with the geographical distribution patterns of species and the various factors that determine them. The focus is on ecological and evolutionary factors and anthropological sources of pattern changes over time, but pertinent concepts in geography and geology are also discussed.

**BI 179**  
**MOLECULAR ECOLOGY**  
**3 units**

**Pre-requisites:** BI 130, BI 130.1, BI 140, BI 140.1, BI 170, BI 170.1, BI 176, or Consent of the instructor

This course deals with the use of molecular techniques in ecology, evolution, biodiversity, and conservation. Concepts and issues on such topics as genes, gene products, and GMOs are discussed. The course also covers techniques such as molecular marker development, molecular diagnostics, and barcoding.

**BI 180**  
**PHYSIOLOGICAL ECOLOGY,**  
**LECTURE**  
**3 units**

**Pre-requisites:** BI 170, BI 170.1, or Consent of the instructor

This course deals with the interplay between the physiology of organisms and their environment. It discusses how organisms adjust their behavior and physiology in response to environmental changes. This course is particularly significant due to the environmental fluctuations caused by changing global climate.

**BI 181****MICROBIAL PHYSIOLOGY,  
LECTURE****3 units****Pre-requisites:** BI 120, BI 120.1,  
CH 151, CH 152**Co-requisite:** BI 181.1

This is a course on microbial cell structure and function and the various processes undergone by microorganisms to obtain energy and grow even in unusual environments.

**BI 181.1****MICROBIAL PHYSIOLOGY,  
LABORATORY****1 unit****Pre-requisites:** BI 120, BI 120.1,  
CH 151, CH 152**Co-requisite:** BI 181

This course offers a set of laboratory exercises investigating microbial life from a physiological point of view.

**BI 182****PLANT PHYSIOLOGY,  
LECTURE****2 units****Pre-requisites:** BI 100, BI 100.1, BI  
101, BI 101.1, CH 7, CH 8, PS 14  
and PS 15, or Consent of  
instructor**Co-requisite:** BI 182.1

This is a course on the function and activities of a living plant. Focus is on how the plant body functions in its environment by looking into the mechanism by which its component parts grow, develop, and are maintained and reproduced.

**BI 182.1****PLANT PHYSIOLOGY,  
LABORATORY****1 unit****Co-requisite:** BI 182

This is a course on the function and activities of a living plant. Focus is on how the plant body functions in its environment by looking into the mechanism by which its component parts grow,

develop, and are maintained and reproduced.

**BI 183****ANIMAL PHYSIOLOGY,  
LECTURE****2 units****Pre-requisites:** BI 100, BI 100.1, BI  
101, BI 101.1, CH 7, CH 8, PS 14  
and PS 15, or Consent of  
instructor**Co-requisite:** BI 183.1

This course uses an integrated approach to the study of organismic form and function in the maintenance of homeostasis by the investigation of vital processes using physio-chemical technique.

**BI 183.1****ANIMAL PHYSIOLOGY,  
LABORATORY****1 unit****Co-requisite:** BI 183

This course uses an integrated approach to the study of organismic form and function in the maintenance of homeostasis by the investigation of vital processes using physio-chemical technique.

**BI 184.1****BIOMEDICAL  
INSTRUMENTATION,  
LABORATORY****3 units****Pre-/Co-requisite:** BI 183, BI  
183.1, or Consent of instructor

This course discusses the methods and instrumentation used for measuring physiologic variables of the human body. It provides a perspective on the principles of design, applications, operation, calibration, maintenance, and troubleshooting of biomedical equipment.

**BI 185****INTRODUCTION TO  
MOLECULAR MEDICINE,  
LECTURE****3 units****Pre-requisites:** BI 130, BI 130.1, BI  
140, BI 140.1, CH 151, CH 152, or**Consent of the instructor**

This course discusses human diseases and their diagnoses and treatments from a molecular biology perspective. Concepts revolving around the human genome, gene expression, and genetic engineering are tackled to be able to provide a wide perspective on this recent trend.

**BI 186****PHARMACOLOGY AND  
TOXICOLOGY, LECTURE****2 units****Pre-requisites:** BI 110, BI 140, BI  
140.1, CH 151, CH 152, BI 155, BI  
183, BI 183.2, or Consent of the  
instructor

This course provides a background on different naturally occurring and synthetic drugs and also deals with the effects of these drugs on toxicity and the functions of the different organ systems. Emphasis is given to pharmacodynamics and pharmacokinetics.

**BI 186.1****PHARMACOLOGY AND  
TOXICOLOGY,  
LABORATORY****1 unit****Pre-requisites:** BI 110, BI 140, BI  
140.1, CH 151, CH 152, BI 155, BI  
183, BI 183.2, or Consent of the  
instructor**Co-requisite:** BI 186

This course demonstrates and investigates the effects of the drugs on toxicity and the functions of different open systems of the mammalian body using rodents and small non-rodent species as model animals.

**BI 187****ENDOCRINOLOGY,  
LECTURE****3 units****Pre-requisites: BI 155 or Consent of instructor**

This course focuses on the endocrine system, its normal function in human growth and development, and some disorders that affect it. It deals with the biochemistry of hormones, how it affects its target cells and the body as a whole, and the different endocrine organs and their regulations.

**BI 188****CARDIO-RESPIRATORY  
BIOLOGY, LECTURE****3 units****Pre-requisite: BI 155 or Consent of the instructor**

This course deals with the normal anatomy and function of the cardiovascular and respiratory systems, as well as derangements in their normal functioning. Topics included are the normal anatomy and physiology of the heart, blood vessels, and the respiratory system.

**BI 189****NEUROBIOLOGY, LECTURE****3 units****Pre-requisite: BI 155 or Consent of the instructor**

This course deals with the normal anatomy and physiology of the nervous system, its effects on human function and behaviour, and common diseases that affect it. Specific nervous functions such as stimulus sensing, motor action, and memory formation among others will also be discussed.

**BI 190****RESEARCH METHODS IN  
BIOLOGY****1 unit****Pre-requisites: BI 100, BI 100.1, BI 101 and BI 101.1**

This is a preparatory course for undergraduate research. This

course familiarizes the students with the basic tools of scientific inquiry. Under the supervision of a biology faculty mentor, the students will select a research topic, write a research proposal and present this proposal before a selected panel.

**BI 191****BIORESEARCH I****2 units****Pre-requisite: BI 190**

This is the first part of a three-course series in conducting an undergraduate thesis. Students implement and conduct a research plan to gain experience in the management of a major field of study and laboratory experiment.

**BI 192****BIORESEARCH II****2 units****Pre-requisite: BI 191**

This is the second part of a three-course series in conducting an undergraduate thesis. Students continue with and complete the research plan, finishing data gathering and analysis in preparation for writing the thesis paper.

**BI 193****BIORESEARCH III****1 unit****Pre-requisite: BI 192**

This is the third part of a three-course series in conducting an undergraduate thesis. Students are required to draft the thesis paper, defend the research before a pre-determined panel and audience of peers in the scientific community, and submit a final paper.

**BI 194****PRACTICUM I****3 units**

**Pre-requisites: BI 190 and one 2-unit Biology Lecture or Laboratory Elective recommended by the Academic Adviser. It must be related to the nature of the institution in which the practicum will be conducted.**

This is a course for Biology majors opting for on-the-job training or work placement in institutions instead of the research courses during their senior year, enabling them to integrate and apply the knowledge and skills they have gained in actual laboratory, clinical, or industrial scenarios.

**BI 195****PRACTICUM II****1 unit****Pre-requisite: BI 194**

This is a course for manuscript writing and oral defense presentation. Students enroll in this course after they have completed the total number of hours required by the institution and passed the practicum proper through a written evaluation accomplished by the immediate supervisor.

**BI 196****CURRENT TRENDS IN  
BIOLOGY LECTURE****3 units**

**Pre-requisites: BI 120, BI 120.1, and BI 130, or Consent of instructor**

This is a course that discusses recent developments in the application of biology in the industry and research.

**BI 197****BIOSEMINAR, LECTURE****2 units****Pre-requisite: BI 1000, BI 100.1, BI 101 and BI 101.1**

This course teaches students basic skills in verbal and written communication in biological research. The emphasis is on



choosing topics for research,  
doing the actual research, writing  
the scientific paper, and  
presenting it orally both in the  
classroom setting and in the form  
of seminars.

1/F Schmitt Hall  
(632) 426-6001 loc. 5620  
fax: (632) 426-1323  
chemistry.ose@ateneo.edu  
<http://www.admu.edu.ph/ls/ose/chemistry>

# CHEMISTRY

**Jose Mario A. Diaz**  
*Chair*

**Faculty**  
***Professor Emeritus***  
Modesto T. Chua

***Professors***  
Fabian M. Dayrit  
Erwin P. Enriquez  
Armando M. Guidote, Jr.

***Associate Professors***  
Soma Chakraborty  
Ronaldo M. Fabicon  
Nina Rosario L. Rojas  
Regina C. So  
Nestor S. Valera

***Assistant Professors***  
Jose Mario A. Diaz  
Lea Cristina D. Macaraig  
Gilbert U. Yu

***Instructors***  
Eunice May V. Biteng  
Jaclyn Elizabeth S. Escano  
Lance O'Hari P. Go  
Henson L. Lee-Yu  
Valerie Christie B. Miclat  
Giselle Mae M. Pacot  
Christine Joy U. Querebillo  
Anna Carissa M. San Esteban  
Elliard Roswell S. Yanza

***Lecturers***  
Antonio M. Basilio  
Jan Patrick D. Calupitan  
Richard B. Gross  
Christopher K. Peabody

The Chemistry Department provides the student with an excellent environment for scientific inquiry and discourse. The faculty offers expertise in the most relevant fields of chemistry, having been trained in well-established scientific institutions around the world. They are actively engaged in research and extension work funded by the University, the private sector, and the government.

Even with our strong research thrust, the Department has remained teaching-oriented. Our faculty to student ratio (1:10) ensures that we are able to address each student's learning needs. Furthermore, individualized laboratory set-ups and hands-on experience with modern instruments provide students with the best training possible.

We believe that science and technology are an integral part of the socio-economic development of the country. To contribute to our national development, the Department aims to train and nurture scientists and technologists who will be committed to the theory and application of chemistry, and engage in fundamental and applied research in chemistry that will fuel the development of competitive, local technology.

## BACHELOR OF SCIENCE IN CHEMISTRY

The four-year B.S. Chemistry program provides students with a very strong foundation that gives them opportunities to work as chemists in industry or research, to pursue an academic career, or to move into other areas such as business and engineering. The curriculum puts emphasis on fundamental principles of chemistry, modern chemical instrumentation, and a strong hands-on component. Because laboratory work is done individually under the supervision of highly qualified faculty and using state-of-the-art facilities, each student develops a high level of competence and confidence. Graduates are eligible to take the Chemist Licensure Examinations. Most graduates of the program have found careers in industry, inevitably moving into positions of leadership. Those who opted for academic careers successfully finish their graduate degrees from prestigious universities abroad. There are also those who chose to become entrepreneurs, and have succeeded in their businesses.

### FIRST YEAR

<u>First Semester</u>		<u>Units</u>	<u>Second Semester</u>		<u>Units</u>
EN 11	Communication in English I	3	EN 12	Communication in English II	3
LIT 13	Introduction to Fiction	3	LIT 14	Introduction to Poetry and Drama	3
FIL 11	Sining ng Pakikipagtalastasan sa Filipino I	3	FIL 12	Sining ng Pakikipagtalastasan sa Filipino II	3
MA 18A	Principles of Modern Mathematics I	3	MA 18B	Principles of Modern Mathematics II	3
HI 16/HI 18	Asian History/Western History	3	FLC	Foreign Language and Culture	3
CH 7	General Chemistry I, Lecture	3	CH 11	General Chemistry II, Lecture	3
CH 8	General Chemistry I, Laboratory	2	CH 12	General Chemistry II, Laboratory	2
PE 1	Physical Education	(2)	PE 2	Physical Education	(2)
INTAC 1	Introduction to Ateneo Culture and Traditions	(0)	INTAC 2	Introduction to Ateneo Culture and Traditions	(0)
		<i>Total: 20</i>			<i>Total: 20</i>

### SECOND YEAR

<u>Summer</u>	<u>Units</u>
CH 35	Quantitative Analysis, Lecture
CH 36	Quantitative Analysis, Laboratory
<i>Total: 5</i>	

<u>First Semester</u>		<u>Units</u>	<u>Second Semester</u>		<u>Units</u>
PSY 101	General Psychology	3	TH 121	An Introduction to Doing a Catholic Theology	3
SA 21	Introduction to Sociology and Anthropology	3	FIL 14	Panitikan ng Pilipinas	3
MA 21	Mathematical Analysis I	6	MA 22	Mathematical Analysis II	3
EC 102	Basic Economics, Agrarian Reform and Taxation	3	PS 31	Elementary Physics I, Lecture	3
CH 25	Organic Chemistry I, Lecture	3	PS 31.1	Elementary Physics I, Laboratory	2
CH 26	Organic Chemistry I, Laboratory	2	CH 27	Organic Chemistry II, Lecture	3
PE 3	Physical Education	(2)	CH 28	Organic Chemistry II, Laboratory	2
NSTP 1	National Service Training Program	(3)	PE 4	Physical Education	(2)
		<i>Total: 20</i>	NSTP 2	National Service Training Program	(3)
					<i>Total: 19</i>

### THIRD YEAR

<u>Summer</u>	<u>Units</u>
POS 100	Politics and Governance
PS 32	Elementary Physics II, Lecture
PS 32.1	Elementary Physics II, Laboratory
<i>Total: 8</i>	

<u>First Semester</u>		<u>Units</u>	<u>Second Semester</u>		<u>Units</u>
PH 101	Philosophy of the Human Person I	3	PH 102	Philosophy of the Human Person II	3
CH 45	Physical Chemistry I, Lecture	3	TH 131	Marriage, Family Life and Human Sexuality in a Catholic Perspective	3
CH 46.1	Physical Chemistry I, Laboratory	1	CH 47	Physical Chemistry II, Lecture	3
CH 151	Biochemistry Lecture	3	CH 48.1	Physical Chemistry II, Laboratory	1
CH 152.1	Biochemistry Laboratory I	1	CH 113	Inorganic Compounds and Reactions, Lecture	3
CH ELECTIVE		3	CH 114.1	Inorganic Chemistry, Laboratory I	1
FREE ELECTIVE		3	CH 185.1	Undergraduate Seminar I	1
		<i>Total: 17</i>	FREE ELECTIVE		3
					<i>Total: 18</i>

### FOURTH YEAR

<u>Summer</u>	<u>Units</u>
CH 135	Instrumental Chemical Analysis Lecture
CH 136	Instrumental Chemical Analysis Laboratory
CH 185.2	Undergraduate Seminar II
<i>Total: 6</i>	

<u>First Semester</u>	<u>Units</u>	<u>Second Semester</u>	<u>Units</u>
PH 103/ PH 104 Philosophy of Religion/ Foundations of Moral Value	3	PH 103/ PH 104 Philosophy of Religion/ Foundations of Moral Value	3
TH 141/ TH 151 A Theology of the Catholic Social Vision/ The Catholic Commitment of Today's Filipino: A Synthesis	3	TH 141/ TH 151 A Theology of the Catholic Social Vision/ The Catholic Commitment of Today's Filipino: A Synthesis	3
HI 165 Rizal and the Emergence of the Philippine Nation	3	HI 166 Philippine History	3
CH 147 Principles of Quantum Chemistry, Lecture	2	CH 189.2 Senior Research II	2
CH 148.1 Principles of Quantum Chemistry, Laboratory	1	CH ELECTIVE	3
CH 189.1 Senior Research I	2		
CH ELECTIVE	3		
	<i>Total: 17</i>		<i>Total: 14</i>

Total Number of Academic Units: 164  
Curriculum Effective Freshman Batch SY 2011-2012

## BACHELOR OF SCIENCE IN CHEMISTRY WITH MATERIALS SCIENCE AND ENGINEERING

New materials and devices with special properties will be in demand for the technologies of the 21st century. Materials Science and Engineering answers this need by integrating the knowledge and tools of chemistry and physics with engineering principles to design, fabricate and characterize improved and novel materials such as polymers, biodegradable plastics, biocompatible materials; ceramics, metals, and composites for stronger structural materials; semi-conductors for more efficient electronic devices; longer-lasting paints, coatings and corrosion resistant materials; and many others. This recently-introduced program is a five-year dual-major program where the students obtain a B.S. Chemistry after four years and a B.S. Materials Science and Engineering (BS MSE) after the fifth year. The B.S. Chemistry program combines a strong foundation in chemistry with a focus on materials through specialized electives. The combined five-year program provides competencies for careers in industry, especially in the areas of semiconductors, plastics, rubber, paints and resins, ceramics, textiles, food, or even cosmetics. Graduates are eligible to take the Chemist Licensure Examinations.

### FIRST YEAR

<u>First Semester</u>	<u>Units</u>	<u>Second Semester</u>	<u>Units</u>
EN 11 Communication in English I	3	EN 12 Communication in English II	3
LIT 13 Introduction to Fiction	3	LIT 14 Introduction to Poetry and Drama	3
FIL 11 Sining ng Pakikipagtalastasan sa Filipino I	3	FIL 12 Sining ng Pakikipagtalastasan sa Filipino II	3
MA 18A Principles of Modern Mathematics I	3	MA 18B Principles of Modern Mathematics II	3
HI 16/HI 18 Asian History/Western History	3	FLC Foreign Language and Culture	3
CH 7 General Chemistry I, Lecture	3	CH 11 General Chemistry II, Lecture	3
CH 8 General Chemistry I, Laboratory	2	CH 12 General Chemistry II, Laboratory	2
PE 1 Physical Education	(2)	PE 2 Physical Education	(2)
INTAC 1 Introduction to Ateneo Culture and Traditions	(0)	INTAC 2 Introduction to Ateneo Culture and Traditions	(0)
	<i>Total: 20</i>		<i>Total: 20</i>

### SECOND YEAR

<u>Summer</u>	<u>Units</u>
CH 35 Quantitative Analysis, Lecture	3
CH 36 Quantitative Analysis, Laboratory	2
ECE 12 Computer-Aided Design	1
	<i>Total: 6</i>

<u>First Semester</u>	<u>Units</u>	<u>Second Semester</u>	<u>Units</u>
MA 21 Mathematical Analysis I	6	TH 121 An Introduction to Doing a Catholic Theology	3
PSY 101 General Psychology	3	FIL 14 Panitikan ng Pilipinas	3
SA 21 Introduction to Sociology and Anthropology	3	MA 22 Mathematical Analysis II	3
EC 102 Basic Economics, Agrarian Reform and Taxation	3	PS 31 Elementary Physics I, Lecture	3
CH 25 Organic Chemistry I, Lecture	3	PS 31.1 Elementary Physics I, Laboratory	2
CH 26 Organic Chemistry I, Laboratory	2	CH 27 Organic Chemistry II, Lecture	3
PE 3 Physical Education	(2)	CH 28 Organic Chemistry II, Laboratory	2
NSTP 1 National Service Training Program	(3)	PE 4 Physical Education	(2)
	<i>Total: 20</i>	NSTP 2 National Service Training Program	(3)
			<i>Total: 19</i>

### THIRD YEAR

<u>Summer</u>		<u>Units</u>
POS 100	Politics and Governance	3
PS 32	Elementary Physics II, Lecture	3
PS 32.1	Elementary Physics II, Laboratory	2
<i>Total:</i>		<i>8</i>

<u>First Semester</u>	<u>Units</u>	<u>Second Semester</u>	<u>Units</u>
PH 101	Philosophy of the Human Person I	PH 102	Philosophy of the Human Person II
CH 41.5	Mathematical Methods in Chemistry	TH 131	Marriage, Family Life and Human Sexuality in a Catholic Perspective
CH 45	Physical Chemistry I, Lecture	CH 47	Physical Chemistry II, Lecture
CH 46.1	Physical Chemistry I, Laboratory	CH 48.1	Physical Chemistry II, Laboratory
CH 141.91	Principles of Materials Science and Engineering I	CH 113	Inorganic Compounds and Reactions, Lecture
FREE ELECTIVE		CH 141.92	Principles of Materials Science and Engineering II
<i>Total:</i>		CH 185.1	Undergraduate Seminar I
		<i>Total:</i>	

### FOURTH YEAR

<u>Summer</u>		<u>Units</u>
CH 135	Instrumental Chemical Analysis Lecture	3
CH 136	Instrumental Chemical Analysis Laboratory	2
CH 185.2	Undergraduate Seminar II	1
<i>Total:</i>		<i>6</i>

<u>First Semester</u>	<u>Units</u>	<u>Second Semester</u>	<u>Units</u>
PH 103/	Philosophy of Religion/	PH 103/	Philosophy of Religion/
PH 104	Foundations of Moral Value	PH 104	Foundations of Moral Value
TH 141/	A Theology of the Catholic Social Vision/	TH 141/	A Theology of the Catholic Social Vision/
TH 151	The Catholic Commitment of Today's Filipino: A Synthesis	TH 151	The Catholic Commitment of Today's Filipino: A Synthesis
HI 165	Rizal and the Emergence of the Philippine Nation	HI 166	Philippine History
CH 147	Principles of Quantum Chemistry, Lecture	CH 189.2	Senior Research II
CH 148.1	Principles of Quantum Chemistry, Laboratory	FREE ELECTIVE	
CH 151	Biochemistry Lecture	<i>Total:</i>	
CH 152.1	Biochemistry Laboratory I		
CH 189.1	Senior Research I		
<i>Total:</i>			

### FIFTH YEAR

<u>Summer</u>		<u>Units</u>
ECE 20	Basic Workshop Practices	1
MSE 121	Polymeric Materials, Lecture	3
MSE 122	Polymeric Materials, Laboratory	1
MSE 161	Engineering Management	2
<i>Total:</i>		<i>7</i>

<u>First Semester</u>	<u>Units</u>	<u>Second Semester</u>	<u>Units</u>
MSE 106.1	Materials and Testing Laboratory I	MSE 106.2	Materials and Testing Laboratory II
MSE 111	Metallic Materials	MSE 131	Ceramic Materials
MSE 141	Electronic Materials	MSE 199.2	Materials Design/Research Project II
MSE 151	Engineering Composites	MSE ELECTIVE	
MSE 160	Innovation and Technology	MSE ELECTIVE	
MSE 199.1	Materials Design/Research Project I	MSE ELECTIVE	
<i>Total:</i>		<i>Total:</i>	

Total Number of Academic Units: 208  
Curriculum Effective Freshman Batch SY 2011-2012

## BACHELOR OF SCIENCE/MASTER OF SCIENCE IN CHEMISTRY

This ladder undergraduate/graduate program aims to (i) allow students to complete both the corresponding undergraduate and graduate degrees within a period of 5 years of continuous study; (ii) cater to students who seek to "fast track" to a Master's degree as prerequisite for a doctorate degree, or for preparation and advancement in industrial settings that require research in the professional practice of chemistry.

### FIRST YEAR

<u>First Semester</u>		<u>Units</u>	<u>Second Semester</u>		<u>Units</u>
EN 11	Communication in English I	3	EN 12	Communication in English II	3
LIT 13	Introduction to Fiction	3	LIT 14	Introduction to Poetry and Drama	3
FIL 11	Sining ng Pakikipagtalastasan sa Filipino I	3	FIL 12	Sining ng Pakikipagtalastasan sa Filipino II	3
MA 18A	Principles of Modern Mathematics I	3	MA 18B	Principles of Modern Mathematics II	3
HI 16/HI 18	Asian History/Western History	3	FLC	Foreign Language and Culture	3
CH 7	General Chemistry I, Lecture	3	CH 11	General Chemistry II, Lecture	3
CH 8	General Chemistry I, Laboratory	2	CH 12	General Chemistry II, Laboratory	2
PE 1	Physical Education	(2)	PE 2	Physical Education	(2)
INTAC 1	Introduction to Ateneo Culture and Traditions	(0)	INTAC 2	Introduction to Ateneo Culture and Traditions	(0)
		<i>Total:</i> 20			<i>Total:</i> 20

### SECOND YEAR

<u>Summer</u>		<u>Units</u>			
CH 35	Quantitative Analysis, Lecture	3			
CH 36	Quantitative Analysis, Laboratory	2			
		<i>Total:</i> 5			
<u>First Semester</u>		<u>Units</u>	<u>Second Semester</u>		<u>Units</u>
MA 21	Mathematical Analysis I	6	TH 121	An Introduction to Doing a Catholic Theology	3
PSY 101	General Psychology	3	FIL 14	Panitikan ng Pilipinas	3
SA 21	Introduction to Sociology and Anthropology	3	MA 22	Mathematical Analysis II	3
EC 102	Basic Economics, Agrarian Reform and Taxation	3	PS 31	Elementary Physics I, Lecture	3
CH 25	Organic Chemistry I, Lecture	3	PS 31.1	Elementary Physics I, Laboratory	2
CH 26	Organic Chemistry I, Laboratory	2	CH 27	Organic Chemistry II, Lecture	3
PE 3	Physical Education	(2)	CH 28	Organic Chemistry II, Laboratory	2
NSTP 1	National Service Training Program	(3)	PE 4	Physical Education	(2)
		<i>Total:</i> 20	NSTP 2	National Service Training Program	(3)
					<i>Total:</i> 19

### THIRD YEAR

<u>Summer</u>		<u>Units</u>			
PS 32	Elementary Physics II, Lecture	3			
PS 32.1	Elementary Physics II, Laboratory	2			
POS 100	Politics and Governance	3			
		<i>Total:</i> 8			
<u>First Semester</u>		<u>Units</u>	<u>Second Semester</u>		<u>Units</u>
PH 101	Philosophy of the Human Person I	3	PH 102	Philosophy of the Human Person II	3
CH 45	Physical Chemistry I, Lecture	3	TH 131	Marriage, Family Life and Human Sexuality in a Catholic Perspective	3
CH 46.1	Physical Chemistry I, Laboratory	1	CH 47	Physical Chemistry II, Lecture	3
CH 151	Biochemistry Lecture	3	CH 48.1	Physical Chemistry II, Laboratory	1
CH 152.1	Biochemistry Laboratory I	1	CH 113	Inorganic Compounds and Reactions, Lecture	3
CH ELECTIVE		3	CH 114.1	Inorganic Compounds and Reactions, Laboratory I	1
FREE ELECTIVE		3	CH 185.1	Undergraduate Seminar I	1
		<i>Total:</i> 17	FREE ELECTIVE		3
					<i>Total:</i> 18

### FOURTH YEAR

<u>Summer</u>		<u>Units</u>			
CH 135	Instrumental Chemical Analysis Lecture	3			
CH 136	Instrumental Chemical Analysis Laboratory	2			
CH 185.2	Undergraduate Seminar II	1			
		<i>Total:</i> 6			
<u>First Semester</u>		<u>Units</u>	<u>Second Semester</u>		<u>Units</u>
PH 103/PH 104	Philosophy of Religion/Foundations of Moral Value	3	PH 103/PH 104	Philosophy of Religion/Foundations of Moral Value	3
TH 141/TH 151	A Theology of the Catholic Social Vision/The Catholic Commitment of Today's Filipino: A Synthesis	3	TH 141/TH 151	A Theology of the Catholic Social Vision/The Catholic Commitment of Today's Filipino: A Synthesis	3
HI 165	Rizal and the Emergence of the Philippine Nation	3	HI 166	Philippine History	3
			CH 189.2	Senior Research II	2

CH 147	Principles of Quantum Chemistry, Lecture	2	CH 235-236 Graduate Level Core Subject	3
CH 148.1	Principles of Quantum Chemistry, Laboratory	1	CH ELECTIVE	3
CH 189.1	Senior Research I	2		
CH ELECTIVE		3		
		<i>Total:</i>		17

## FIFTH YEAR

<u>Summer</u>		<u>Units</u>		
CH 211-213	Graduate Level Core Subject	3		
CH 285.1	Graduate Seminar I	1		
CH 287	Fundamentals of Research	3		
		<i>Total:</i>	7	

<u>First Semester</u>		<u>Units</u>	<u>Second Semester</u>	<u>Units</u>
CH 221-222	Graduate Level Core Subject	3	CH 241-242 Graduate Level Core Subject	3
CH 251-252	Graduate Level Core Subject	3	CH 299 Thesis Writing	(0)
CH 285.2	Graduate Seminar II	1	CH ELECTIVE	3
CH 298	Thesis Direction	(0)	CH ELECTIVE	3
CH COMPRE 200	Comprehensive Examinations	(0)		
		<i>Total:</i>	7	<i>Total:</i> 9

Total Number of Undergraduate Academic Units: 164

Total Number of Graduate Academic Units\*: 26

Total Number of Academic Units: 190

Curriculum Effective Freshman Batch SY 2011-2012

\*Any 200 Graduate-Level core and elective subjects may be taken with the approval of the Academic Adviser.

## COURSE OFFERINGS

### CH 1

#### GENERAL CHEMISTRY, LECTURE

**3 units**

This course is a study of the role of the natural sciences in everyday life in the context of chemistry as a *central science*. Topics include the scientific method and the fundamental properties of matter and their physical chemical transformations, classifications, nomenclature, structure, and reactivity.

### CH 2

#### GENERAL CHEMISTRY, LABORATORY

**1 unit**

This is a required accompanying course to CH 1 that provides deep appreciation of the experimental nature of chemistry. Students develop skills in the scientific method and learn fundamental skills in a chemical laboratory.

### CH 7

#### GENERAL CHEMISTRY I, LECTURE

**3 units**

**Pre-requisite: MA 11 or MA 18A (may be taken concurrently)**

This course is a study of fundamental chemistry concepts and theories for science and engineering majors.

### CH 8

#### GENERAL CHEMISTRY I, LABORATORY

**2 units**

This is a required accompanying course to CH 7 aimed at a deep appreciation of the experimental nature of chemistry and the scientific method, and at learning the fundamental skills in the chemical laboratory.

### CH 11

#### GENERAL CHEMISTRY II, LECTURE

**3 units**

**Pre-requisites: CH 7, CH 8**

This is the second fundamental chemistry course for science and

engineering majors. It covers topics in properties of solutions, chemical equilibrium principles, acid-base equilibria, chemical kinetics and thermodynamics, electrochemistry, chemistry of coordination compounds, qualitative analysis and an introduction to quantitative analytical chemistry.

### CH 12

#### GENERAL CHEMISTRY II, LABORATORY

**2 units**

**Pre-requisites: CH 7, CH 8**

This is a required accompanying course to CH 11. The course covers experiments on properties of solutions, chemical equilibrium, acid-base equilibrium, chemical kinetics, qualitative analysis of elements and introduction to classical and instrumental quantitative analysis. It develops fundamental skills in the chemical laboratory.

**CH 21**  
**SURVEY OF ORGANIC**  
**CHEMISTRY**  
**LECTURE**  
**3 units**  
**Pre-requisite:** CH 7 or CH 11,  
may be taken concurrently with  
CH 22 or CH 22.2  
*Designed for non-chemistry*  
*majors.*

This is an introductory course in organic chemistry that surveys the different types of organic compounds. This course examines their structures, properties, reactivities and reaction mechanisms; and analysis through simple chemical tests.

**CH 22**  
**SURVEY OF ORGANIC**  
**CHEMISTRY**  
**LABORATORY**  
**1 unit**  
**Pre-requisite:** CH 8 or CH 12,  
may be taken concurrently with  
Ch 21

This is a required accompanying course to CH 21 that introduces the basic techniques and skills required for the study of properties of organic compounds.

**CH 22.2**  
**SURVEY OF ORGANIC**  
**CHEMISTRY**  
**LABORATORY**  
**2 units**  
**Pre-requisites:** CH 8 or CH 12,  
may be taken concurrently with  
CH 21

This is an accompanying laboratory course to CH 21 designed for non-chemistry majors. It introduces basic techniques and skills required for the study of the properties of organic compounds.

**CH 25**  
**ORGANIC CHEMISTRY I,**  
**LECTURE**  
**3 units**  
**Pre-requisites:** CH 7, CH 8

*This is the first course on the fundamentals of organic chemistry.*  
This course emphasizes molecular structure and functional groups as unifying principle in understanding and learning properties of organic molecules, such as physical properties, chemical reactivity, shape and molecular spectra. It also tackles the basics of spectroscopy as a tool to characterize organic molecules.

**CH 25.5**  
**APPLIED ORGANIC**  
**CHEMISTRY I,**  
**LECTURE**  
**3 units**  
**Pre-requisites:** CH 7, CH 8

This first of two courses provides a working background on the chemistry of organic compounds: their structures, properties, and reactivities and reaction mechanisms. Emphasis is on the applications of these organic compounds in daily life and their utility and potential in business operations.

**CH 26**  
**ORGANIC CHEMISTRY I,**  
**LABORATORY**  
**2 units**  
**Pre-requisites:** CH 7, CH 8  
This is an accompanying course to CH 25. It introduces basic techniques and skills required for the study of properties of organic compounds. It also applies these skills in natural product isolation and organic compound synthesis and characterization and analysis through physical properties, chemical tests and spectroscopy.

**CH 26.5**  
**APPLIED ORGANIC**  
**CHEMISTRY I,**  
**LABORATORY**  
**2 units**  
**Pre-requisite:** CH 7, CH 8  
*For Management of Applied*  
*Chemistry majors.*

This is an accompanying laboratory course to CH 25.5, introducing the techniques and skills required in the handling and study of organic compounds, including basic techniques, synthesis, reactions, isolation of natural products, and instrumental analysis.

**CH 27**  
**ORGANIC CHEMISTRY II,**  
**LECTURE**  
**3 units**  
**Pre-requisites:** CH 25, CH 26  
*This is the second course on the fundamentals of organic chemistry.*

This course emphasizes molecular structure and functional groups as unifying principle in understanding and learning properties of organic molecules, such as physical properties, chemical reactivity, shape and molecular spectra. It also introduces heterocyclic organic compounds and biochemistry.

**CH 27.5**  
**APPLIED ORGANIC**  
**CHEMISTRY II,**  
**LECTURE**  
**3 units**  
**Pre-requisite:** CH 25.5  
*For Management of Applied*  
*Chemistry majors.*

This second of two courses provides a working background on the chemistry of organic compounds: their structures, properties, and reactivities and reaction mechanisms. Emphasis is on the applications of these organic compounds in daily life and their utility and potential in business operations.

**CH 28**  
**ORGANIC CHEMISTRY II,**  
**LABORATORY**  
**2 units**  
**Pre-requisite:** CH 25, CH 26  
This is an accompanying laboratory course to CH 27. It provides advanced laboratory



skills in organic chemistry: from synthesis of organic compounds, their isolation and purification, to characterization and analysis using physical properties, chemical tests, spectroscopy and chromatography. It ultimately develops intellectual acumen and experimental techniques for successful independent organic chemistry research in the future.

**CH 35**  
**QUANTITATIVE ANALYSIS,**  
**LECTURE**

**3 units**

**Pre-requisites:** CH 11, CH 12

*For science majors.*

This is a foundation course on analytical techniques. Topics include accuracy and precision of measurements, statistical analysis of measured data, chemical equilibrium principles, gravimetry, titrimetry, ionic equilibria, neutralization reactions of simple and complex systems, electrochemical analysis, and an introduction to instrumental analysis: UV-Vis, AAS, and gas chromatography.

**CH 35.5**  
**QUANTITATIVE ANALYSIS**  
**LECTURE**

**3 units**

**Pre-requisites:** CH 7, CH 8

This introductory course on analytical chemistry, focuses on classical quantitative analytical methods and gives an introduction to instrumental analysis. Topics include accuracy and precision of measurements, analysis of measured data, gravimetry, titrimetry (acid-base, redox, precipitation and complexation), UV-Vis spectroscopy, atomic absorption spectroscopy, and gas chromatography.

**CH 36**  
**QUANTITATIVE ANALYSIS,**  
**LABORATORY**

**2 units**

**Pre-requisites:** CH 7, CH 8

This is an accompanying laboratory course to CH 35 that covers basic analytical laboratory skills, particularly the use of the analytical balance, volumetric apparatus, gravimetric methods, titrimetric methods, and spectrometers.

**CH 36.5**  
**QUANTITATIVE ANALYSIS**  
**LABORATORY**

**2 units**

**Pre-requisites:** CH 7, CH 8

This is an accompanying laboratory course to CH 35.5 designed to teach basic analytical laboratory skills, including the use of analytical balances, calibration and use of volumetric glasswares, gravimetric methods, titrations, and the use of basic instruments such as UV-Vis spectrometers, AAS, and gas-chromatography.

**CH 41.5**  
**MATHEMATICAL METHODS**  
**IN CHEMISTRY**

**3 units**

**Pre-requisite:** MA 22

The course provides students with the necessary knowledge in differential equations as applied to engineering problems. The topics include ordinary differential equations of the first order, linear differential equations with constant coefficients and simultaneous linear differential equations.

**CH 45**  
**PHYSICAL CHEMISTRY I**  
**LECTURE**

**3 units**

**Pre-requisites:** CH 27, CH 35, MA 22

This is the first physical chemistry course for Chemistry majors. It covers the laws of

thermodynamics and their application to chemical systems, the calculation of heat effects and equilibrium in chemical reactions, phase equilibria and phase diagram. Applications to environment, technology and society will be discussed.

**CH 45.5**  
**APPLIED PHYSICAL**  
**CHEMISTRY I**  
**LECTURE**

**3 units**

**Pre-requisites:** CH 27.5, CH 35.5, MA 19

This course studies the basis of physical chemical properties of substances as used in chemical process industries. Topics include the laws of thermodynamics and their applications to chemical systems; the calculation of heat effects and equilibrium in chemical reactions; and phase equilibria and equilibrium electrochemistry.

**CH 46**  
**PHYSICAL CHEMISTRY I**  
**LABORATORY**

**2 units**

**Pre-requisites:** CH 27, CH 35, MA 22

This course is an accompanying course for CH 45 to further the knowledge of physical chemistry principles through direct experimentation, and to acquire new laboratory skills and intuition in experimental chemistry.

**CH 46.1**  
**PHYSICAL CHEMISTRY I**  
**LABORATORY**

**1 unit**

**Pre-requisites:** CH 27, CH 35, MA 22

This course is an accompanying course for CH 45 to further the knowledge of physical chemistry principles through direct experimentation, and to acquire new laboratory skills and

intuition in experimental chemistry.

**CH 46.5  
APPLIED PHYSICAL  
CHEMISTRY I  
LABORATORY**

**2 units**

**Pre-requisites:** CH 27.5, CH 35.5, MA 19

This is the accompanying laboratory course for CH 45.5. This exposes the students to physical chemistry principles by way of direct experimentation and develops new laboratory skills in experimental applied chemistry. Topics and experiments covered include data and error analysis, measurement of physical properties, optical and spectroscopic techniques in analysis of materials, and other topics in applied physical chemistry.

**CH 47  
PHYSICAL CHEMISTRY II  
LECTURE**

**3 units**

**Pre-requisites:** CH 45, CH 46 or CH 46.1

This is the second physical chemistry course for Chemistry majors. The course covers equilibrium electrochemistry, transport phenomena, structure of solids, surface chemistry, and kinetics of chemical reactions. It also covers an introduction to quantum chemistry including the postulates and applications to simple systems. Applications to environment, technology and society will be discussed.

**CH 47.5  
APPLIED PHYSICAL  
CHEMISTRY II  
LECTURE**

**3 units**

**Pre-requisite:** CH 45 or CH 45.5

This course is the second applied physical chemistry course designed for Management of Applied Chemistry majors. It

covers the fundamentals of rates and mechanism of chemical reactions, mass transport, and the precepts of quantum chemistry: the basis of quantum mechanics and applications in spectroscopy and current devices, phenomena.

**CH 48  
PHYSICAL CHEMISTRY II  
LABORATORY**

**2 units**

**Pre-requisites:** CH 45, CH 46 or CH 46.1

This accompanying laboratory course for CH 47 exposes the students to physical chemistry principles by way of direct experimentation. It also teaches new laboratory skills in experimental chemistry. Topics and experiments covered include electrochemistry, chemical kinetics, and surface phenomena.

**CH 48.1  
PHYSICAL CHEMISTRY II  
LABORATORY**

**1 unit**

**Pre-requisites:** CH 45, CH 46 or CH 46.1

This accompanying laboratory course for CH 47 exposes the students to physical chemistry principles by way of direct experimentation. It also teaches new laboratory skills in experimental chemistry. Topics and experiments covered include electrochemistry, chemical kinetics, and surface phenomena.

**CH 61  
INDUSTRIAL CHEMICAL  
REACTIONS AND PROCESSES**

**3 units**

**Pre-requisites:** CH 45 and CH 46 or CH 45.5 and CH 46.5

This is an introduction to chemistry-based industries. Topics include mass balances in flow processes, separation processes, and scale-up; an overview of the manufacturing processes involved in the preparation of fertilizers,

petrochemicals, soaps/detergents and fats/oils.

**CH 62  
INDUSTRIAL CHEMICAL  
REACTIONS AND PROCESSES  
LABORATORY**

**2 units**

**Pre-requisites:** CH 45 and CH 46 or CH 45.5 and CH 46.5

**Co-requisite:** CH 61

The laboratory course CH 62 is an accompanying laboratory course to CH 61. It introduces how chemical processes are done in a bigger scale. It covers the fundamental skills in industrial preparations and testing of products such as paint, plastics and detergents.

**CH 63  
POLYMERS AND PLASTICS**

**2 units**

**Pre-requisite:** CH 45 or CH 45.5

This course is a study of the chemistry and processing of polymers. Topics include molar mass measurements, polymerization mechanisms, transitions/relaxations, mechanical properties, rheology, viscoelastic behavior, and the analysis and processing of polymers. Plant visits are scheduled.

**CH 65  
INTRODUCTION  
TO FOOD SCIENCE**

**3 units**

**Pre-requisite:** CH 27, CH 27.5 or CH 21

This overview of food science from a chemistry perspective includes the chemical composition and properties of the macronutrients in food; the chemistry of chemical constituents like flavorings and their contribution to food quality indices; and techniques in food processing, quality assurance, and food biotechnology.

**CH 67**  
**INTRODUCTION TO**  
**INDUSTRIAL BIOCHEMISTRY**  
**3 units**

**Pre-requisite:** CH 27 or  
CH 27.5

This is an overview of industrial biochemistry and biotechnology, illustrating the application of biochemistry to the production of biological compounds useful in food and nutrition, medicine and pharmaceuticals, and chemical and materials industries. It reviews general strategies for efficient production and processing of these compounds.

**CH 69**  
**INTRODUCTION TO**  
**PHARMACEUTICAL**  
**CHEMISTRY**  
**3 units**

**Pre-requisite:** CH 27 or CH 27.5

This course is an overview of pharmaceutical chemistry. Topics include the principles of drug action (absorption, distribution, metabolism, and excretion); receptor-drug interactions; bioavailability; pharmacokinetics; drug interactions; drug preparation and dosage; and methods for analysis of drugs.

**CH 101**  
**CHEMISTRY RESEARCH**  
**PROBLEMS,**  
**LECTURE**  
**3 units**

**Pre-requisites:** CH 45 and CH 46  
or 46.1, or CH 45.5 and CH 46.5

This course bridges the traditional areas of organic, inorganic, physical, and analytical chemistry. It is handled on a tutorial basis, and requires presentation of results of student laboratory and library research on specific problems based on current chemistry literature.

**CH 102**  
**CHEMISTRY RESEARCH**  
**PROBLEMS,**  
**LABORATORY**  
**2 units**

**Pre-requisites:** CH 45 and CH 46  
or 46.1, or CH 45.5 and CH 46.5

This is an accompanying course to the specific research experimental projects of CH 101.

**CH 103**  
**READINGS IN ADVANCED**  
**CHEMISTRY**  
**3 units**

**Pre-requisite:** CH 45 or CH 45.5

This is a guided reading course in the area of students' interest for an in-depth study of a specialized area of chemistry. It is handled on a tutorial/discussion basis requiring submission by the student of a review paper, a concept paper, and short topic presentations.

**CH 103.1**  
**READINGS IN ADVANCED**  
**CHEMISTRY I**  
**1 unit**

**Pre-requisite:** CH 45 or CH 45.5

This is a guided reading course in the area of students' interest for an in-depth study of a specialized area of chemistry. It is handled on a tutorial/discussion basis requiring submission by the student of a review paper, a concept paper, and short topic presentations.

**CH 103.2**  
**READINGS IN ADVANCED**  
**CHEMISTRY II**  
**1 unit**

**Pre-requisite:** CH 45 or CH 45.5

This is a guided reading course in the area of students' interest for an in-depth study of a specialized area of chemistry. It is handled on a tutorial/discussion basis requiring submission by the student of a review paper, a concept paper, and short topic presentations.

**CH 103.3**  
**READINGS IN ADVANCED**  
**CHEMISTRY III**  
**1 unit**

**Pre-requisite:** CH 45 or CH 45.5

This is a guided reading course in the area of students' interest for an in-depth study of a specialized area of chemistry. It is handled on a tutorial/discussion basis requiring submission by the student of a review paper, a concept paper, and short topic presentations.

**CH 105.X**  
**PROBLEM SOLVING IN**  
**CHEMISTRY**  
**3 units**

**Pre-requisite:** Consent of  
instructor

This course bridges the traditional areas of organic, inorganic, physical, analytical, and biological chemistry. Stress is placed on problem solving strategies, integration of knowledge and skills, and special topics.

**CH 105.1**  
**PROBLEM SOLVING IN**  
**CHEMISTRY I**  
**1 unit**

**Pre-requisite:** Consent of  
instructor

This course bridges the traditional areas of organic, inorganic, physical, analytical, and biological chemistry. Stress is placed on problem solving strategies, integration of knowledge and skills, and special topics.

**CH 105.2**  
**PROBLEM SOLVING IN**  
**CHEMISTRY II**  
**1 unit**

**Pre-requisite:** Consent of  
instructor

This course bridges the traditional areas of organic, inorganic, physical, analytical, and biological chemistry. Stress is placed on problem solving strategies, integration of knowledge and skills, and special topics.

**CH 105.3**  
**PROBLEM SOLVING IN**  
**CHEMISTRY III**  
**1 unit**

**Pre-requisite:** Consent of instructor

This course bridges the traditional areas of organic, inorganic, physical, analytical, and biological chemistry. Stress is placed on problem solving strategies, integration of knowledge and skills, and special topics.

**CH 111.XX**  
**ADVANCED INORGANIC**  
**CHEMISTRY:**  
**SPECIAL TOPICS**  
**3 units**

**Pre-requisite:** CH 47

This is a special topics course on inorganic chemistry at the advanced undergraduate level, including basic concepts and current reviews on any of the special topics.

**CH 111.10**  
**ADVANCED INORGANIC**  
**CHEMISTRY**  
**3 units**

**Pre-requisite:** CH 47

This is review of basic concepts: atomic and molecular orbitals, molecular structure, and bonding theories (VBT and MOT), as well as advanced topics such as symmetry and group theory considerations in bonding in coordination chemistry (including crystal and ligand field theories).

**CH 111.30**  
**ADVANCED INORGANIC**  
**CHEMISTRY:**  
**ORGANOMETALLIC**  
**CHEMISTRY**  
**3 units**

**Pre-requisite:** CH 47

This course is a study of the chemistry of organometallic compounds.

**CH 111.60**  
**ADVANCED INORGANIC**  
**CHEMISTRY: BIOINORGANIC**  
**CHEMISTRY**  
**3 units**

**Pre-requisite:** CH 47

This course is a study of coordination compounds in biological systems and processes.

**CH 111.80**  
**ADVANCED INORGANIC**  
**CHEMISTRY:**  
**INORGANIC MATERIALS**  
**3 units**

**Pre-requisite:** CH 47

This course is a study of the chemistry and physics of inorganic solid-state materials.

**CH 113**  
**INORGANIC COMPOUNDS**  
**AND REACTIONS,**  
**LECTURE**  
**3 units**

**Pre-requisite:** CH 27

This is a survey of inorganic compounds. Topics include descriptive non-metallic and main group chemistry. Emphasis is on coordination and organometallic compounds, their unique bonding schemes, isomerisms, mechanisms and systematics of inorganic functional groups, the thermodynamics and kinetics of their reaction mechanisms, and spectroscopic analysis.

**CH 114**  
**INORGANIC COMPOUNDS**  
**AND REACTIONS,**  
**LABORATORY**  
**2 units**

**Pre-requisites:** CH 28, CH 36

**Co-requisite:** CH 113 or Consent of instructor

This laboratory companion course to CH 113 introduces techniques in the synthesis and characterization (chemical and instrumental) of inorganic main-group and transition metal compounds. Such compounds are also used in reactions for kinetic, mechanistic, and catalytic studies.

**CH 114.1**  
**INORGANIC CHEMISTRY**  
**LABORATORY I**  
**1 unit**

**Pre-requisites:** CH 28, CH 36

**Co-requisite:** CH 113 or Consent of instructor

This laboratory companion course to CH 113 introduces techniques in the synthesis and characterization (chemical and instrumental) of inorganic main-group and transition metal compounds. Such compounds are also used in reactions for kinetic, mechanistic, and catalytic studies.

**CH 114.2**  
**INORGANIC COMPOUNDS**  
**AND REACTIONS**  
**LABORATORY II**  
**1 unit**

**Pre-requisites:** CH 28, CH 36

**Co-requisite:** CH 113 or Consent of instructor

This is an accompanying laboratory course to CH 113. The course introduces techniques in the synthesis and characterization (chemical and instrumental) of inorganic main-group and transition metal compounds used in reactions for kinetic, mechanistic, and catalytic studies.

**CH 121.xx**  
**ADVANCED ORGANIC**  
**CHEMISTRY:**  
**SPECIAL TOPICS**  
**3 units**

**Pre-requisites:** CH 27, CH 28

This is a special topics course for organic chemistry at the advanced undergraduate level. The course includes advanced concepts and current reviews on selected special topics (classified per course number extension number) in organic chemistry.

**CH 121.1**  
**ADVANCED ORGANIC**  
**CHEMISTRY I: PHYSICAL**  
**ORGANIC CHEMISTRY**  
**3 units**

**Pre-requisites:** CH 27, CH 28

This course introduces physical organic chemistry as applied to the study of molecular properties such as structure and reaction mechanism. It also surveys stereochemistry and the reactivity of organic compounds.

**CH 121.2  
ADVANCED ORGANIC  
CHEMISTRY II: REACTIONS  
AND MECHANISMS**

**3 units**

**Pre-requisites:** CH 27, CH 28

This course covers the fascinating aspects of organic reactions in a more advanced level. It covers the principles behind the carbon-carbon and carbon-heteroatom bond formation and functional group interconversion. It also covers the reactivity, selectivity, methodology, and mechanisms of alkyl halides and alcohols, oxidations, reductions, olefinations, carbonyl compounds, pericyclic reactions, and transition metal-mediated reactions.

**CH 121.42  
ADVANCED ORGANIC  
CHEMISTRY:  
INTRODUCTION TO  
MODERN NMR TECHNIQUES**

**3 units**

**Pre-requisites:** CH 27 and CH 28

This course provides the theoretical basis of NMR and its various applications. It focuses on the methods used for the determination of organic structure (<sup>1</sup>H and <sup>13</sup>C NMR), in particular the use of various one- and two-dimensional pulse sequences. Other topics include dynamic NMR, protein NMR, and NMR of other elements in the periodic table.

**CH 121.45  
ADVANCED ORGANIC  
CHEMISTRY:  
MASS SPECTROMETRY**

**3 units**

This course covers the basic principles of mass spectrometry, including the phenomena underlying the formation of ions, the analysis of ions, fragmentation of ions, and the interpretation of mass spectral data. It then discusses recent applications of mass spectrometry in diverse areas, including the analysis of complex natural products and biomolecules.

**CH 121.47  
ADVANCED ORGANIC  
CHEMISTRY: STRUCTURE  
INTERPRETATION**

**3 units**

**Pre-requisites:** CH 27, CH 28

This is a course on the use of complementary IR, MS, NMR, and UV spectra to determine the structure of organic compounds. Emphasis is on developing the skill to infer structural elements, for example presence (or absence) of functional groups from the different spectra.

**CH 121.50  
ADVANCED ORGANIC  
CHEMISTRY: NATURAL  
PRODUCTS CHEMISTRY**

**3 units**

**Pre-requisites:** CH 27, CH 28

This course introduces the basic principles of biology and secondary metabolism, presents in detail the biosynthesis of the major structural classes, and covers a number of important topics related to natural products. The course is enhanced by discussion of special topics given by the students.

**CH 121.85  
ADVANCED ORGANIC  
CHEMISTRY: POLYMER  
SYNTHESIS**

**3 units**

**Pre-requisites:** CH 27, CH 28

This course is a study of polymer synthesis and reactions, including free radical addition, step-growth, ionic polymerization,

copolymerization synthesis, polymer stereochemistry, metal-catalyzed polymerization, and group transfer reactions.

**CH 122.1  
ORGANIC  
PREPARATIONS I**

**3 units**

**Pre-requisites:** CH 27, CH 28

This course is a laboratory class covering advanced techniques in organic synthesis and large-scale preparations. In addition, it covers advanced organic chemistry experiments that instruct the student on planning and purification, reaction and characterization, and the reporting of organic compounds.

**CH 122.2  
ORGANIC  
PREPARATIONS II**

**3 units**

**Pre-requisites:** CH 27, CH 28

This course is a laboratory class covering advanced techniques in organic synthesis and large-scale preparations. In addition, it covers advanced organic chemistry experiments that instruct the student on planning and purification, reaction and characterization, and the reporting of organic compounds.

**CH 122.3  
ORGANIC  
PREPARATIONS III**

**3 units**

**Pre-requisites:** CH 27, CH 28

This course is a laboratory class covering advanced techniques in organic synthesis and large-scale preparations. In addition, it covers advanced organic chemistry experiments that instruct the student on planning and purification, reaction and characterization, and the reporting of organic compounds.



**CH 123****ORGANIC ANALYSIS,  
LECTURE****3 units****Pre-requisites:** CH 27, CH 28

The lecture class covers common qualitative and quantitative methods for structure determination of organic compounds. Such methods include infrared spectroscopy, NMR spectroscopy, mass spectrometry, and functional group analysis.

**CH 124****ORGANIC ANALYSIS,  
LABORATORY****2 units****Pre-requisites:** CH 27, CH 28

The laboratory companion course involves semi-micro analysis of organic substances and mixtures, and structure elucidation by spectroscopic techniques.

**CH 135****INSTRUMENTAL  
CHEMICAL ANALYSIS  
LECTURE****3 units****Pre-requisite:** CH 47

This course studies modern instrumental methods of analysis, their basic principles, instrumentation, and applications, covering four major areas of modern instrumental analysis: basic electronics and circuitry for analytical instruments, signal processing; optics, spectrochemical analysis, and spectroscopy; electrochemical techniques; and chromatographic methods.

**CH 135.XX****ADVANCED ANALYTICAL  
CHEMISTRY: SPECIAL TOPICS****3 units****Pre-requisites:** CH 135,  
CH 136

This course deals with analytical chemistry. Topics include advanced concepts and current reviews on special topics in

analytical chemistry such as: spectrochemical analysis; modern infrared and NMR spectroscopy; techniques in high-performance chromatography; environmental analytical chemistry; X-ray and electron spectroscopy, laser spectroscopy, chemometrics, and multivariate analysis.

**CH 135.3****ADVANCED ANALYTICAL  
CHEMISTRY: QUALITY  
ASSURANCE IN ANALYTICAL  
CHEMISTRY****3 units****Pre-requisites:** CH 135, CH 136

This course covers lectures on the quality assurance aspects of Analytical Chemistry. Topics include: ISO, Good Laboratory Practice, methods development and validation, uncertainty, traceability, internal quality assurance audits, and others.

**CH 135.31****ADVANCED ANALYTICAL  
CHEMISTRY:  
ELECTROANALYTICAL  
CHEMISTRY****3 units****Pre-requisites:** CH 135, CH 136

These courses may include quality management, instrumentation and advanced concepts and current reviews on selected special topics in analytical chemistry. In particular electroanalytical methods in chemical analyses e.g. potentiometry, coulometry, and voltammetry will be discussed.

**CH 135.42****ADVANCED ANALYTICAL  
CHEMISTRY:  
NMR SPECTROSCOPY****3 units****Pre-requisites:** CH 135, CH 136

This course provides the theoretical basis of NMR and its various applications. It focuses on the methods used for the determination of organic structure (<sup>1</sup>H and <sup>13</sup>C NMR), in particular

the use of various one- and two-dimensional pulse sequences. Other topics include dynamic NMR, protein NMR, and NMR of other elements in the periodic table.

**CH 135.5****MODERN ANALYTICAL  
CHEMISTRY****3 units****Pre-requisite:** CH 47.5

This course introduces modern instrumental methods of analysis: the basic principles, instrumentation, and their applications to industrial research and quality assurance. It covers basic knowledge of the major areas of modern instrumental analysis: spectroscopy and chromatography. It also provides the knowledge needed in formulating fit-for-purpose solutions to real analytical problems in the industrial setting.

**CH 136****INSTRUMENTAL  
CHEMICAL ANALYSIS  
LABORATORY****2 units****Pre-requisites:** CH 47, CH 48, CH 48.1**Co-requisite:** CH 135

This is an accompanying laboratory course to CH 135, including instrumentation laboratory to cover experiments on spectrochemical and chromatographic techniques and basic digital and analog electronics laboratory.

**CH 136.XX****INSTRUMENTAL ANALYSIS:  
LABORATORY SERIES****2 units****Pre-requisites:** CH 135,  
CH 136

This course deals with analytical chemistry. Topics include advanced concepts and current reviews on special topics in analytical chemistry such as: spectrochemical analysis; modern

infrared and NMR spectroscopy; techniques in high-performance chromatography; environmental analytical chemistry; X-ray and electron spectroscopy, laser spectroscopy, chemometrics, and multivariate analysis.

**CH 141.1**  
**ADVANCED PHYSICAL**  
**CHEMISTRY I**

**3 units**

**Pre-requisites:** CH 47, CH 48 or CH 48.1

This is a course on advanced topics in physical chemistry. Topics include: thermodynamics, statistical thermodynamics, phase and chemical equilibria, theory of solutions and electrochemistry; kinetic theory, transport and rate processes, chemical kinetics and phenomena at interfaces; and atomic and molecular structure and spectra, radiation chemistry and photochemistry.

**CH 141.2**  
**ADVANCED PHYSICAL**  
**CHEMISTRY II**

**3 units**

**Pre-requisites:** CH 47, CH 48 or CH 48.1

This is a course on advanced topics in physical chemistry. Topics include: thermodynamics, statistical thermodynamics, phase and chemical equilibria, theory of solutions and electrochemistry; kinetic theory, transport and rate processes, chemical kinetics and phenomena at interfaces; and atomic and molecular structure and spectra, radiation chemistry and photochemistry.

**CH 141.3**  
**ADVANCED PHYSICAL**  
**CHEMISTRY III**

**3 units**

**Pre-requisites:** CH 47, CH 48 or CH 48.1

This is a course on advanced topics in physical chemistry. Topics include: thermodynamics, statistical thermodynamics, phase

and chemical equilibria, theory of solutions and electrochemistry; kinetic theory, transport and rate processes, chemical kinetics and phenomena at interfaces; and atomic and molecular structure and spectra, radiation chemistry and photochemistry.

**CH 141.85**  
**POLYMERIC MATERIALS**  
**LECTURE**

**3 units**

**Pre-requisites:** CH 25, CH 26

The course provides an overview of polymer chemistry and high polymer physics. Topics include molecular weight and distribution, polymerization reactions and kinetics, solution properties, molecular structure, morphology of amorphous and crystalline polymers, rubber elasticity, visco-elasticity, glass transition, and mechanical testing. Commercial polymers, as well as polymers synthesized in the accompanying laboratory course, will also be investigated.

**CH 142.85**  
**POLYMERIC MATERIALS**  
**LABORATORY**

**1 unit**

**Pre-requisites:** CH 25, CH 26

The course provides an overview of polymer chemistry and high polymer physics. Topics include molecular weight and distribution, polymerization reactions and kinetics, solution properties, molecular structure, morphology of amorphous and crystalline polymers, rubber elasticity, visco-elasticity, glass transition, and mechanical testing. Commercial polymers, as well as polymers synthesized in the accompanying laboratory course, will also be investigated.

**CH 141.91**  
**PRINCIPLES OF**  
**MATERIALS SCIENCE AND**  
**ENGINEERING I**

**3 units**

**Pre-requisites:** MA 21, CH 45 or PS 42

The course provides the student a fundamental background on the structure and properties of materials. Topics include structure of amorphous and crystalline solids, X-ray diffraction, defects in solids, phase equilibria, kinetics of crystallization, diffusion in solids, mechanical properties of materials, electrical properties, and materials processing & design.

**CH 141.92**  
**PRINCIPLES OF**  
**MATERIALS SCIENCE AND**  
**ENGINEERING II**

**3 units**

**Pre-requisite:** CH 141.91 or MSE 101

The course provides a fundamental background on the structure and properties of materials. This is a follow-up of the first semester course or a stand-alone elective.

**CH 142.1**  
**ADVANCED PHYSICAL**  
**MEASUREMENT I**

**3 units**

**Pre-requisites:** CH 46, CH 48

This is a laboratory course on advanced techniques of physicochemical measurement. The course includes the study of properties of liquids and solutions, conductance and transference in electrolytic solutions, cell EMF, thermochemistry, glassblowing, photochemistry, spectroscopy, kinetics, the construction of apparatus, and special problems.

**CH 142.2**  
**ADVANCED PHYSICAL MEASUREMENT II**  
**3 units**  
**Pre-requisites:** CH 46, CH 48  
This is a laboratory course on advanced techniques of physicochemical measurement. The course includes the study of properties of liquids and solutions, conductance and transference in electrolytic solutions, cell EMF, thermochemistry, glassblowing, photochemistry, spectroscopy, kinetics, the construction of apparatus, and special problems.

**CH 142.3**  
**ADVANCED PHYSICAL MEASUREMENT III**  
**3 units**  
**Pre-requisites:** CH 46, CH 48  
This is a laboratory course on advanced techniques of physicochemical measurement. The course includes the study of properties of liquids and solutions, conductance and transference in electrolytic solutions, cell EMF, thermochemistry, glassblowing, photochemistry, spectroscopy, kinetics, the construction of apparatus, and special problems.

**CH 144**  
**ADVANCED PHYSICAL TECHNIQUES**  
**3 units**  
**Pre-requisites:** CH 46, CH 48  
This is a laboratory course on advanced techniques of physicochemical measurement. The course includes the study of properties of liquids and solutions, conductance and transference in electrolytic solutions, cell EMF, thermochemistry, glassblowing, photochemistry, spectroscopy, kinetics, the construction of apparatus, and special problems.

**CH 147**  
**PRINCIPLES OF QUANTUM CHEMISTRY, LECTURE**  
**2 units**  
**Prerequisites:** CH 47 and CH 48 or CH 48.1  
The lecture course covers the fundamental principles of quantum chemistry. It covers the postulates, applications to model systems and the electronic structure of the atom and molecule, spectroscopy, computer modeling, and applications in other branches of chemistry.

**CH 148.1**  
**PRINCIPLES OF QUANTUM CHEMISTRY, LABORATORY**  
**1 unit**  
**Prerequisites:** CH 47 and CH 48 or CH 48.1  
The accompanying laboratory course cover experiments in quantum properties of light, spectroscopy of molecular systems, and an introduction to computer modeling; semi-empirical and ab initio calculations and an introduction to molecular mechanics and dynamics.

**CH 151**  
**BIOCHEMISTRY LECTURE**  
**3 units**  
**Pre-requisite:** CH 27, CH 27.5 or CH 21  
This introductory covers basic knowledge of the cell as well as the structure-function relationships of the four major classes of biomolecules. It also discusses current discoveries and trends in biochemical techniques and applications, especially those being used in the Philippines and those which may have a significant impact in the local scene.

**CH 151.XX**  
**SPECIAL TOPICS IN BIOCHEMISTRY**  
**3 units**  
**Pre-requisites:** CH 151 and CH 152.1, or Consent of Instructor  
This is a special topics lecture course for biochemistry at the advanced undergraduate level. The course includes advanced concepts and current reviews on selected special topics (classified per course extension number) in biochemistry.

**CH 151.2**  
**SPECIAL TOPICS IN BIOCHEMISTRY: BIOINFORMATICS**  
**3 units**  
**Pre-requisites:** CH 151 and CH 152.1, or Consent of Instructor  
This course brings together faculty and students from computing, life science, and physical science backgrounds to discuss and analyze genomes, genes, gene products/proteins, and function using computational tools. Focus is on the main databases, search tools, matching methods, and predictive models.

**CH 151.51**  
**SPECIAL TOPICS IN BIOCHEMISTRY: INTRODUCTION TO MOLECULAR ONCOLOGY**  
**3 units**  
**Pre-requisites:** CH 151 and CH 152.1, or Consent of Instructor  
This course is an overview of cancer at the molecular level and its correlations and applications in the clinic.

**CH 151.6**  
**SPECIAL TOPICS IN BIOCHEMISTRY: GLYCOBIOLOGY**  
**3 units**  
**Pre-requisite:** CH 151 or Consent of Instructor



The Glycobiology course is divided into three main parts covering the following aspects: concepts in Molecular and Cell Biology and Glycobiology; the current techniques, methods and applications in glycobiology; and the current status of research in the field of glycobiology in the context of significant breakthroughs and contributions of this field to molecular biology, cell biology, biochemistry and medicine.

**CH 152  
BIOCHEMISTRY,  
LABORATORY**

**2 units**

**Pre-requisite: CH 151 (may be taken concurrently)**

This is an introductory biochemistry laboratory companion to CH 151. It provides the student experiments that develop the basic skills needed to carry out standard experimental techniques used in biochemistry. The course also includes discussion of current biochemical techniques and their significant applications.

**CH 152.xx  
BIOCHEMICAL TECHNIQUES  
LABORATORY SERIES**

**2 units**

**Pre-requisite: CH 151 (may be taken concurrently)**

This course discusses contemporary topics in the biochemistry laboratory with special emphasis on new methodologies, laboratory techniques, and protocols in enzyme, protein and carbohydrate chemistry, molecular biology, and other topics.

**CH 152.1  
BIOCHEMISTRY  
LABORATORY I**

**1 unit**

**Pre-requisite: CH 151 (may be taken concurrently)**

This is an introductory biochemistry laboratory companion to CH 151. It provides the student experiments that develop the basic skills needed to carry out standard experimental techniques used in biochemistry. The course also includes discussion of current biochemical techniques and their significant applications.

**CH 152.2  
BIOCHEMISTRY  
LABORATORY II**

**1 unit**

**Pre-requisite: CH 151 (may be taken concurrently)**

The course covers experiments and that develop the basic skills needed to carry out standard experimental techniques used in biochemistry such as lipid extraction and analysis, protein analysis, methods of testing enzyme activity, enzyme kinetics, and enzyme inhibition.

**CH 153  
ADVANCED BIOCHEMISTRY,  
LECTURE**

**3 units**

**Pre-requisite: CH 151**

This is an advanced course on biochemistry with more in-depth coverage and correlation of concepts and experimental results. Topics include control systems in biochemistry on various levels, experimental techniques as appropriate, and other special topics.

**CH 154  
ADVANCED BIOCHEMISTRY,  
LABORATORY**

**2 units**

**Pre-requisite: CH 152.1**

This accompanying laboratory course to CH 153 applies the protein analytical techniques learned in CH 152 to 'real' samples, as well as learning new techniques used in DNA/RNA analysis.

**CH 155  
INSTRUMENTAL  
METHODS OF  
BIOCHEMICAL ANALYSIS,  
LECTURE**

**3 units**

**Pre-requisites: CH 151,  
CH 152.1**

This course is a study of the theory and concepts of instrumental methods used in biochemistry, such as in immunochemistry, molecular biology, protein and enzyme chemistry. Topics include radioisotope techniques, centrifugation, spectrometric techniques, chromatographic separations, and electrochemical techniques.

**CH 155.1  
INTRODUCTION TO  
PERSONALIZED MOLECULAR  
MEDICINE I**

**3 units**

**Pre-requisite: Ch 151 or equivalent or Consent of instructor**

This is an introduction to the basic principles as well as innovative practices in molecular medicine. The basic sciences, such as biochemistry, molecular biology and molecular genetics, are integrated with applications and innovations in clinical medicine. Part I covers the immune system and cancer.

**CH 156  
INSTRUMENTAL  
METHODS OF  
BIOCHEMICAL ANALYSIS,  
LABORATORY**

**2 units**

**Pre-requisites: CH 151, CH 152.1**

This accompanying laboratory course to CH 155 consists of experiments on a variety of biochemical instrumentation.

**CH 161**  
**RADIOCHEMISTRY,**  
**LECTURE**  
**3 units**  
**Pre-requisites:** CH 47, CH 48  
This course covers the fundamental principles of radiochemistry. It discusses radioactivity, isotopes, nuclear decay and radiation. The course also studies the use of radioactivity for the elucidation of chemical reactions.

**CH 161.5**  
**ENVIRONMENTAL**  
**CHEMISTRY**  
**3 units**  
**Pre-requisite:** CH 35 or CH 35.5  
This course discusses the principles involved in the chemical analysis of ambient environmental samples collected in air and water media. It surveys the various techniques used in the analysis of particulate matter, volatile organic compounds, carbonyls, trace metals, nitrogen compounds, and biological oxygen demand. The course also covers data reduction, data analysis and quality assurance.

**CH 162**  
**RADIOCHEMISTRY,**  
**LABORATORY**  
**2 units**  
**Pre-requisites:** CH 47, CH 48  
This is an accompanying laboratory course to CH 161. Emphasis is on techniques of utilizing radioactive isotopes for tracing and other applications.

**CH 171**  
**INTRODUCTION TO**  
**COMPUTERS AND DATA**  
**STRUCTURES I**  
**3 units**  
The course introduces the student to the basics of computer programming which include data types, expressions, functions and pointers. The course then advances to more sophisticated

topics such as algorithms and object-oriented programming.

**CH 172**  
**INTRODUCTION TO**  
**COMPUTERS AND DATA**  
**STRUCTURES II**  
**3 units**  
**Pre-requisite:** CH 171 or equivalent  
The course studies the data structures and algorithms used in computing. Data structures include binary trees, stacks, lists, queues, and hashes. Algorithms include the analyses of sorting, searching and graphing solutions. The course also discusses the performance implications and practical applications of using these structures and algorithms.

**CH 173**  
**ALGORITHMS AND**  
**PROBLEMS IN CHEMISTRY**  
**3 units**  
**Pre-requisites:** CH 171 or equivalent, CH 41.5 or equivalent  
This is a course on computational methods and algorithms for problems in science and engineering. Topics include error analysis in numerical computations, numerical solutions for nonlinear equations, curve fitting and function approximation, interpolation, integration, differentiation, ordinary differential equations, partial differential equations, and Eigen values.

**CH 174**  
**DIGITAL ELECTRONICS AND**  
**CHEMICAL**  
**INSTRUMENTATION**  
**SYSTEMS**  
**3 units**  
**Pre-requisites:** PS 32, CH 135, CH 136  
This course introduces to the principles and practices of digital electronics. It discusses the systematic design of digital systems of moderate complexity

using medium- and large-scale integrated circuits as building blocks, with emphasis on the algorithmic state machine (ASM) method of design.

**CH 174.1**  
**DIGITAL ELECTRONICS**  
**AND CHEMICAL**  
**INSTRUMENTATION**  
**SYSTEMS**  
**4 units**  
**Pre-requisites:** PS 32, CH 135, CH 136  
This course is a lecture and laboratory class that provides an introduction to the principles and practices of digital electronics. It discusses the systematic design of digital systems of moderate complexity using medium- and large-scale integrated circuits as building blocks, with emphasis on the algorithmic state machine (ASM) method of design.

**CH 175**  
**INDUSTRIAL CHEMISTRY**  
**TRAINING**  
**3 units**  
**Pre-requisite:** Third year standing and/or Consent of Program Adviser  
This course is a full-time apprenticeship in an industrial research or control laboratory. It acquaints the student to the applications of Chemistry as actually practiced in the chemical industry. Special arrangements are made to enable the student to experience work in a chemical firm.

**CH 177**  
**INDUSTRIAL CHEMICAL**  
**WORKSHOP**  
**5 units**  
**Pre-requisites:** CH 35 and CH 36, or CH 35.5 and CH 36.5  
This course introduces chemical laboratory settings in industry. Topics include the essentials of the International Standards Organization and Good Laboratory Practice, principles of

quality assurance, personnel management, testing program evaluation, analysis scheme evaluation and validation, inventory and supply of chemicals and apparatus, and environmental considerations.

**CH 179.1**  
**BASIC SCIENTIFIC**  
**GLASS BLOWING**  
**1 unit**

This course introduces the properties of glass. The course allows the students to create unique glass blown pieces. It also covers basic techniques such as cutting, drawing, blowing, connecting, annealing; introduction and use of glass blowing equipments; and safety in glass handling.

**CH 185.1**  
**UNDERGRADUATE**  
**SEMINAR I**  
**1 unit**

**Pre-requisites:** CH 27, CH 28  
This course introduces the student to the contemporary topics in chemistry as published in scientific journals and letters. These serve as venues for discussions into the reading of literature articles, as well as the understanding of current research being studied in modern chemistry.

**CH 185.2**  
**UNDERGRADUATE**  
**SEMINAR II**  
**1 unit**

**Pre-requisites:** CH 27, CH 28  
This course introduces the student to the contemporary topics in chemistry as published in scientific journals and letters. These serve as venues for discussions into the reading of literature articles, as well as the understanding of current research being studied in modern chemistry.

**CH 189.1**  
**SENIOR RESEARCH I**  
**2 units**

**Pre-requisites:** CH 47, CH 48  
This is a two-semester course for an original research project by students supervised by a faculty mentor. The first semester is designed to introduce the student to the fundamentals of research proposal writing and presentation. During this time, the course teaches the student on the preparations needed prior to conducting research: the procedures and use of equipments, chemical requisition, safety and waste handling.

**CH 189.2**  
**SENIOR RESEARCH II**  
**2 units**

**Pre-requisites:** CH 47, CH 48  
This is a two-semester course for an original research project by students supervised by a faculty mentor. The second semester serves as a venue for the student to conduct actual research through experimentation and mentor guidance. The student is then guided in the formal writing and presentation of his research findings.

**CH 189.5**  
**SENIOR RESEARCH FOR**  
**APPLIED CHEMISTRY**  
**3 units**

**Pre-requisites:** CH 45.5, CH 46.5  
This course introduces the student to the design and implementation of chemical-based consumer products. It guides the reading of scientific and business journals in relation to chemical products being manufactured and their corresponding market trends and demands. The course focuses on research activities leading to the development of chemical commodities.

**CH 211**  
**INORGANIC CHEMISTRY,**  
**LECTURE**  
**3 units**

**Pre-requisite:** Consent of instructor  
This course discusses modern theories of bonding and reactivity applied to inorganic compounds, including molecular orbital and valence bond theories; crystal and ligand field theories; and the use of group theory, electronegativity, thermodynamics, and kinetics. Specific illustrative examples include rare gas compounds, interhalogen compounds, hexafluorides, and transition elements.

**CH 213**  
**DESCRIPTIVE INORGANIC**  
**CHEMISTRY**  
**3 units**

**Pre-requisite:** Consent of instructor  
This course is a descriptive presentation of inorganic compounds and reactions. The course attempts to unify the wealth of detail by relating structure with reactivity.

**CH 221**  
**ORGANIC CHEMISTRY**  
**LECTURE**  
**3 units**

This is a special topics course in organic chemistry at the advanced graduate level. The course covers advanced concepts and current reviews on selected special topics in organic chemistry.

**CH 235**  
**ANALYTICAL CHEMISTRY**  
**LECTURE**  
**3 units**

This is a special topics course in analytical chemistry at the advanced graduate level, including advanced concepts and current reviews of selected special topics in analytical chemistry.

**CH 236**  
**ANALYTICAL CHEMISTRY,**  
**LABORATORY**  
**3 units**  
**Pre-requisite: Instrumental**  
**Chemical Analysis or Consent of**  
**instructor**

This is a special topics laboratory course in analytical chemistry at the advanced graduate level. Topics include advanced concepts and current reviews on selected special topics in analytical chemistry.

**CH 241**  
**PHYSICAL CHEMISTRY,**  
**LECTURE**  
**3 units**

This is a study of advanced topics in physical chemistry.

**CH 242**  
**ADVANCED PHYSICAL**  
**CHEMISTRY,**  
**LABORATORY**  
**3 units**  
**Pre-requisite: Physical Chemistry**  
**Laboratory or Consent of**  
**instructor**

This is a series of laboratory courses in advanced physical chemistry with emphasis on measurement and computation.

**CH 245**  
**PHYSICAL CHEMISTRY OF**  
**COMPOSITES**  
**3 units**  
**Pre-requisite: CH 47 or MSE 102**  
**or Consent of instructor**

This course introduces fiber reinforced composites. Topics include atomistic basis for design and properties of engineering composites; prediction of composite strength and toughness; preparation, advantages, and limitations of fiber reinforcements and of polymer, metal, and ceramic matrix composites; and anisotropic continuum representations, tests and characterization methods.

**CH 251**  
**THE CHEMISTRY OF LIVING**  
**SYSTEMS**  
**3 units**

**Pre-requisites: Organic**  
**Chemistry or Consent of**  
**instructor; Analytical and**  
**Physical Chemistry**  
**recommended**

This course in biochemistry covers structure-function relationships in four major classes of biomolecules: carbohydrates, lipids, proteins, and nucleic acids. Topics include metabolic pathways, reaction mechanisms, and compounds associated with living organisms and their interaction with one another.

**CH 252**  
**BIOCHEMISTRY**  
**LABORATORY**  
**3 units**  
**Pre-requisite: Consent of**  
**instructor**  
*Normally taken with CH 251*  
Laboratory work in this course involves isolation, purification, and analysis of biological molecules and analysis of biochemical reactions and enzyme kinetics.

**CH 253**  
**ADVANCED BIOCHEMISTRY**  
**LECTURE**  
**3 units**  
**Pre-requisites: CH 151 or CH 251**  
**or Consent of instructor**  
This is an advanced course on biochemistry with more in-depth coverage and correlation of concepts and experimental results with concepts. Topics include control systems in biochemistry on various levels, experimental techniques as appropriate, and other special topics.

**CH 285.1**  
**GRADUATE SEMINAR I**  
**1 unit**  
**Pre-requisite: Consent of**  
**instructor**

This is the oral presentation of a scholarly study based on reports in the recent literature normally associated with a graduate thesis or project.

**CH 285.2**  
**GRADUATE SEMINAR II**  
**1 unit**

**Pre-requisite: Consent of**  
**instructor**  
This is the oral presentation of a scholarly study based on reports in the recent literature normally associated with a graduate thesis or project.

**CH 287**  
**FUNDAMENTALS OF**  
**RESEARCH**  
**3 units**

**Pre-requisites: Consent of**  
**instructor and department's**  
**graduate programs coordinator**  
This is a course on the theory and practice of research, its methods and operation including practical experience in the use of Chemical Abstracts, Beilstein, and other chemical journals. Students prepare a viable research proposal that is defended before a panel.

**CH 298**  
**THESIS DIRECTION**  
**0 units**  
**Pre-requisites: CH 287 and**  
**Consent of the thesis**  
**mentor/graduate programs**  
**adviser**

This is a course on literature and experimental preparation for thesis under the supervision of a mentor.

**CH 299**  
**THESIS WRITING**  
**0 units**  
**Pre-requisite: Consent of the**  
**thesis mentor/graduate programs**  
**adviser**

This thesis direction course covers the period of laboratory research supervised by a faculty mentor. The student enrolls continuously per term while doing the research.

During the expected last term, the student enrolls in CH 299, during which a written thesis is produced.

**MSE 101  
PRINCIPLES OF MATERIALS  
SCIENCE I**

**3 units**

**Pre-requisites:** MA 21 and CH 45, or PS 42 and CH 7

This course is an overview of the structure of solids.

**MSE 102  
PRINCIPLES OF MATERIALS  
SCIENCE II**

**3 units**

**Pre-requisite:** MSE 101

This course is an overview of the physical, electronic and optical properties of solids.

**MSE 106.1  
MATERIALS AND TESTING  
LABORATORY I**

**3 units**

This is a course on fabrication, synthesis and testing of materials in laboratory and practical format.

**MSE 106.2  
MATERIALS AND TESTING  
LABORATORY II**

**3 units**

**Pre-requisite:** MSE 102

This is a course on fabrication, synthesis and testing of materials in laboratory and practical format.

**MSE 111  
METALLIC MATERIALS**

**3 units**

**Pre-requisite:** MSE 102

This is a course on the physical and mechanical properties of metals and alloys in relation to their structure.

**MSE 121  
POLYMERIC MATERIALS,  
LECTURE**

**3 units**

**Pre-requisites:** MSE 102

This course is an overview of polymer chemistry and high

polymer physics. Topics include: molecular weight and distribution, polymerization reactions and kinetics, solution properties, molecular structure, morphology of amorphous and crystalline polymers, rubber elasticity, visco-elasticity, glass transition, and mechanical testing.

**MSE 122  
POLYMERIC MATERIALS  
LABORATORY**

**1 unit**

**Pre-requisites:** MSE 102

This course is an overview of polymer chemistry and high polymer physics. Topics include: molecular weight and distribution, polymerization reactions and kinetics, solution properties, molecular structure, morphology of amorphous and crystalline polymers, rubber elasticity, visco-elasticity, glass transition, and mechanical testing.

**MSE 131  
CERAMIC MATERIALS**

**3 units**

**Pre-requisite:** MSE 102

This introductory course to ceramics deals with the classification and structures of ceramics, its various properties, novel ceramic processing, advanced ceramic applications, the areas of use of advanced ceramics in engineering, and general principles of the problems and solutions used in designing with ceramics.

**MSE 141  
ELECTRONIC MATERIALS**

**3 units**

**Pre-requisite:** MSE 102

This course is a study of theories of electrical conductivity in metals and semiconductors, p-n junctions, optical properties of dielectrics and metals, and conducting polymers. Device applications and fabrication and characterization techniques are also discussed.

**MSE 151  
ENGINEERING COMPOSITES**

**3 units**

**Pre-requisite:** MSE 102

This course introduces fiber reinforced composites: atomic basis for design and properties of engineering composites.

**MSE 160  
INNOVATION AND  
TECHNOLOGY**

**3 units**

**Pre-requisite:** must at least be in third year

This capstone course develops a strategic overview of technology in the Philippine context. Themes such as technology and society, the creation of new technology companies based on new ideas, the global context of technology development, and the technical basis of new developments are discussed.

**MSE 161  
ENGINEERING  
MANAGEMENT**

**2 units**

This course studies the principles of accounting, time value of money, and capital investment decision criteria. It also includes a discussion on industrial organization and management concepts, theories, and practices. It also touches on human behavior and gives an introduction to various decision-making tools.

**MSE 180.1x  
MICROSCOPY AND IMAGING  
OF MATERIALS**

**3 units**

**Pre-requisite:** MSE 102

This is a course on contemporary topics in microscopy and imaging as tools for the characterization and investigation of properties of materials, emphasizing new techniques and protocols. Specialized topics include Scanning and Transmission Electron Microscopy, Scanned



Probe Microscopy, optical microscopy, micro-spectrometry, and other imaging techniques.

**MSE 180.2x**  
**DIFFRACTION TECHNIQUES**  
**3 units**

**Pre-requisite:** MSE 102

This is a course on fundamental and contemporary topics in electron and x-ray diffraction and their applications in the understanding of the structure and properties of materials.

**MSE 180.3x**  
**SPECTROSCOPIC ANALYSIS OF MATERIALS**  
**3 units**

**Pre-requisite:** MSE 102

This is a course on contemporary spectroscopic techniques in the analysis and characterization of materials. Special topics include FTIR spectrometry, Photoelectron spectroscopy (AES/XPS), and Secondary Ion Mass Spectrometry.

**MSE 182.x**  
**SPECIAL TOPICS IN POLYMERS**  
**3 units**

**Pre-requisite:** MSE 121

This is a course on advanced or contemporary topics in polymers – polymer physics, polymerization techniques, polymer process engineering, characterization, fabrication, and others. Emphasis is on industry-related topics such as emulsion polymerization, conducting polymers, polymer composites, polymer electrolytes, and biopolymers.

**MSE 182.1**  
**SPECIAL TOPICS IN POLYMERS: POLYMER PROCESSING AND TECHNOLOGY**  
**3 units**

**Pre-requisite:** MSE 121 or CH 141.85

This is a course on polymer process engineering and technologies used in industry today. It covers fundamental chemical engineering principles as they are exhibited in polymers, basic operations for production, and product design for applications, as well as recycling and environmental considerations.

**MSE 184.x**  
**SPECIAL TOPICS IN ELECTRONIC MATERIALS**  
**3 units**

**Pre-requisite:** MSE 102

This is a course on advanced or contemporary topic materials for the electronics and communications industry. Topics include VLSI technology, Si wafer technology, IC packaging, assembly and testing, and next generation technologies including molecular electronic devices.

**MSE 184.1**  
**SPECIAL TOPICS IN ELECTRONIC MATERIALS: SEMICONDUCTOR PACKAGING**  
**3 units**

**Pre-requisite:** MSE 102

This course is an overview of semiconductor manufacturing services for chip packaging. Topics include the use of assembly and post encapsulation workstations; an overview of test methodologies; device classification. Device failure analysis discusses how choosing materials and processing methods affect the yield and device performance.

**MSE 187.x**  
**SPECIAL TOPICS IN COMPUTATIONAL MATERIALS SCIENCE**  
**3 units**

**Pre-requisite:** MSE 121

This is a course on advanced or contemporary topics in computational science as applied

to materials science and engineering. Topics include finite element analysis, and molecular modeling.

**MSE 187.1**  
**SPECIAL TOPICS IN COMPUTATIONAL MATERIALS SCIENCE: ENGINEERING STATISTICS**  
**3 units**

**Pre-requisite:** MA 22

This is an introductory course on applied statistics. Topics in elementary probability theory, estimation, hypothesis testing, regression analysis, and analysis of variance are discussed. Statistical software such as R and SPSS are used to carry out massive computations and data analysis.

**MSE 188.x**  
**MODERN TOPICS IN MATERIALS SCIENCE AND ENGINEERING**  
**3 units**

**Pre-requisite:** MSE 121

This is a course on current advances in materials science engineering. Topics include nanotechnology, biomimetics, and supramolecular assemblies.

**MSE 188.1**  
**MODERN TOPICS IN MATERIALS SCIENCE AND ENGINEERING: OPTICAL AND OPTOELECTRONIC MATERIALS**  
**3 units**

**Pre-requisite:** PS 32

This is a course on the optical properties of materials; fabrication of lenses, gratings and waveguides; optoelectronic materials and devices (such as lasers, photodiodes, and LEDs). Topics include various spectroscopic techniques for characterization of materials; and holography.

**MSE 188.2**  
**MODERN TOPICS IN**  
**MATERIALS SCIENCE AND**  
**ENGINEERING:**  
**INTRODUCTION TO**  
**NANOTECHNOLOGY**

**3 units**

**Pre-requisite: MSE 102 or its**  
**equivalent (or consent of**  
**instructor)**

This is a course on the optical properties of materials; fabrication of lenses, gratings and waveguides; optoelectronic materials and devices (such as lasers, photodiodes, and LEDs). Topics include various spectroscopic techniques for characterization of materials; and holography.

Students present a proposal (written and oral) and work on the project, a final presentation, and final documentation on a selected research problem. They also attend regular research group meetings, present updates, and train on special techniques needed for the implementation of the research project.

**MSE 189.x**  
**SPECIAL TOPICS IN**  
**MATERIALS PROCESSING**

**3 units**

**Pre-requisite: MSE 102**

This is a course on current methodologies and advances in materials processing.

**MSE 199.1**  
**MATERIALS DESIGN/**  
**RESEARCH**  
**PROJECT I**

**3 units**

**Pre-requisite: PS 199.3 or**  
**CH 189.2**

Students present a proposal (written and oral) and work on the project, a final presentation, and final documentation on a selected research problem. They also attend regular research group meetings, present updates, and train on special techniques needed for the implementation of the research project.

**MSE 199.2**  
**MATERIALS DESIGN/**  
**RESEARCH**  
**PROJECT II**

**3 units**

**Pre-requisite: PS 199.3 or**  
**CH 189.2**

Room 324 Faura Hall  
(632) 426-6001 loc. 5641  
fax: (632) 426-5436  
ecce.sose@ateneo.edu  
<http://www.ateneo.edu/depts/ecce>

# ELECTRONICS, COMPUTER, AND COMMUNICATIONS ENGINEERING

**Rosula S.J. Reyes**  
*Chair*

**Faculty**

***Associate Professors***

Nathaniel Joseph C. Libatique  
Rosula S.J. Reyes

***Assistant Professors***

Gemalyn D. Abrajano  
Luisito L. Agustin  
Maria Leonora C. Guico  
Erees Queen B. Macabebe  
Jose Claro N. Monje  
Carlos M. Oppus

***Instructor***

Daniel Jeffrey M. Lagazo

***Assistant Instructors***

Samuel Matthew G. Dumlao  
Bryan T. Lao  
Juan Antonio G. Mariñas  
Thomas Joseph T. Sevilla

***Lecturers***

Florencio M. Apolinar, Jr.  
Noel S. Patron  
Cesar S. Pineda  
Gregory L. Tangonan

Electronics Engineering and Computer Engineering are dynamic and broad fields encompassing areas with applications in biomedical devices and subsystems, personal wireless communications and services, supply chain logistics, and new semiconductor and optoelectronic devices. The research encompasses the basic physics of semiconductors and nano-materials, through electronic and optical devices, the design of computers, to algorithms and structures for information technologies, and 3D imaging systems.

ECCE Department Research has major research thrusts in Biomedical Devices and Subsystems, Telecommunications and Networked Information's Systems, Microelectronics and Energy-Environment. The multiyear projects use combined skills in computer engineering, programming and communications, and advanced circuit design as well as the soft-people skills required to work in large multi-disciplinary teams.

Given the highly inter-disciplinary nature of many of the emerging applications of electronics, computing and communications, the Research projects often require teaming with other Ateneo departments, industry and government researchers. In this way, the students are exposed to the practical nature of modern engineering. In large part, the research is Faculty driven and the projects are multi-year in scope.

(cont'd)



Students are encouraged to explore the formation of new companies through coupling their thesis research with classes on innovation and technology development. This is done during their undergraduate thesis work. Thus, we encourage innovation by providing the undergraduates with research opportunities in exciting and emerging fields that are fertile ground for incubating new high technology enterprises.

## BACHELOR OF SCIENCE IN ELECTRONICS ENGINEERING

The five-year Electronics Engineering Program aims to train licensed engineers who have a competent grasp of both the science and technology of modern electronics and telecommunications. It is expected that these professionals will not only be applications experts but also creative innovators in this field.

The program is global in its outlook with teaching and training extending beyond the classroom. The student curriculum incorporates exposure to industry and on-the-job training that will enhance the students' professional preparation. The industry commitment and linkage programs provide an excellent environment for research, innovation, and technology development.

### FIRST YEAR

<u>First Semester</u>	<u>Units</u>	<u>Second Semester</u>	<u>Units</u>
EN 11 Communication in English	3	EN 12 Communication in English II	3
FIL 11 Sining ng Pakikipagtalastasan sa Filipino I	3	LIT 14 Introduction to Poetry And Drama	3
LIT 13 Introduction to Fiction	3	FIL 12 Sining ng Pakikipagtalastasan sa Filipino II	3
MA 18A Principles of Modern Mathematics I	3	ENGMA 14 Discrete Mathematics for Engineers	3
MA 18B Principles of Modern Mathematics II	3	ECE 20 Engineering Workshop and Practices	1
CH 1 General Chemistry, Lecture	3	MA 21 Mathematical Analysis I	6
CH 2 General Chemistry, Laboratory	1	INTAC 2 Introduction to Ateneo Culture	(0)
PE 1 Physical Education	(2)	PE 2 Physical Education	(2)
INTAC 1 Introduction to Ateneo Culture	(0)		
	<i>Total: 19</i>		<i>Total: 19</i>

### SECOND YEAR

<u>Summer</u>	<u>Units</u>
ECE 11 Drawing/Drafting	1
ENGMA 10 Plane and Spherical Trigonometry/ Solid Mensuration	3
ES 10 Environmental Sciences, Lecture	3
	<i>Total: 7</i>

<u>First Semester</u>	<u>Units</u>	<u>Second Semester</u>	<u>Units</u>
FIL 14 Panitikan ng Pilipinas	3	TH 121 An Introduction to Doing a Catholic Theology	3
ENGSCI 41 Engineering Mechanics I	3	SA 21 Introduction to Sociology and Anthropology	3
MA 22 Mathematical Analysis II	3	FLC Foreign Language and Culture	3
ELC 101.1 Introduction To Engineering and Circuits I, Lecture	3	CE 21 Introduction to Computing	3
ELC 101.2 Introduction To Engineering and Circuits I, Laboratory	3	ENGSCI 42 Engineering Mechanics II	2
PS 51 Physics I, Lecture	3	ELC 102.1 Electronics I, Lecture	3
PS 51.1 Physics I, Laboratory	1	ELC 102.2 Electronics I, Laboratory	1
PE 3 Physical Education	(2)	PE 4 Physical Education	(2)
NSTP 1 National Service Training Program	(3)	NSTP 2 National Service Training Program	(3)
	<i>Total: 17</i>		<i>Total: 18</i>

### THIRD YEAR

<u>Summer</u>	<u>Units</u>
ENGMA 101 Engineering Mathematics I	3
ECE 12 Computer-Aided Design	1
HI 16/HI 18 Asian/ Western History (Choose one)	3
	<i>Total: 7</i>

<u>First Semester</u>	<u>Units</u>	<u>Second Semester</u>	<u>Units</u>
PH 101 Philosophy of the Human Person I	3	PH 102 Philosophy of the Human Person II	3
TH 131 Marriage, Family Life and Human Sexuality in a Catholic Perspective	3	HI 165 Rizal and the Emergence of the Philippine Nation	3
ENGMA 102 Engineering Mathematics II	3	ENGPS 171 Electromagnetics Theory and Applications I	3
PS 52 Physics II, Lecture	3	ELC 107.1 Electronics II, Lecture	3
PS 52.1 Physics II, Laboratory	1	ELC 107.2 Electronics II, Laboratory	1
ENGSCI 43 Thermodynamics	2	TCOM 121.1 Principles of Communications I, Lecture	3
ELC 111.1 Switching Theory and Digital Design, Lecture	3	TCOM 121.2 Principles of Communications I, Laboratory	1
ELC 111.2 Switching Theory and Digital Design, Laboratory	1		
	<i>Total: 19</i>		<i>Total: 17</i>

#### FOURTH YEAR

<u>Summer</u>	<u>Units</u>
ENGMA 103 Engineering Mathematics III	3
ECE 150 Materials Science and Engineering	3
<b>Total:</b>	<b>6</b>

<u>First Semester</u>	<u>Units</u>	<u>Second Semester</u>	<u>Units</u>
PH 103/ Philosophy of Religion/		PH 103/ Philosophy of Religion/	
PH 104 Foundations of Moral Value	3	PH 104 Foundations of Moral Value	3
TH 141/ A Theology of the Catholic Social Vision/		TH 141/ A Theology of the Catholic Social Vision/	
TH 151 The Catholic Commitment of Today's Filipino: A Synthesis	3	TH 151 The Catholic Commitment of Today's Filipino: A Synthesis	3
TCOM 122.1 Principles of Communications II, Lecture	3	ELC 106.1 Circuits II, Lecture	3
TCOM 122.2 Principles of Communications II, Laboratory	1	HI 166 Philippine History	3
TCOM 141.1 Data Communications and Networking	3	ELC 141.1 Microprocessor Systems, Lecture	3
TCOM 141.2 Data Communications and Networking	1	ELC 141.2 Microprocessor Systems, Laboratory	1
ECE 161 Engineering Management	2	PSY 101 General Psychology	3
POS 100 Politics and Governance	3	<b>Total:</b>	<b>19</b>
<b>Total:</b>	<b>19</b>		

#### FIFTH YEAR

<u>Summer</u>	<u>Units</u>
ECE 190.1/ Practicum I/	
CIE 185 OJT	3
<b>Total:</b>	<b>3</b>

<u>First Semester</u>	<u>Units</u>	<u>Second Semester</u>	<u>Units</u>
F ELECTIVE Free Elective	3	F ELECTIVE Free Elective	3
ECCE 191 Thesis I	2	ECE 160 Engineering Economy	3
ELC 151.1 Linear and Control Systems, Lecture	3	ECCE 192 Thesis II	2
ELC 151.2 Linear and Control Systems, Laboratory	1	ECE 162 Engineering Laws, Contracts and Ethics	2
ELC 152.1 Digital Signal Processing, Lecture	3	M ELEC ECE Elective	3
ELC 152.2 Digital Signal Processing, Laboratory	1	CE 33 Numerical Methods	4
ELC 181.2 Industrial Electronics	4	ENGSCI 45 Energy Conversion and Systems	4
ENGSCI 44 Mechanics of Deformable Bodies	3	TCOM 150.1 Transmission Media and Antenna Systems, Lecture	3
ENGMA 104 Advanced Engineering Mathematics	3	TCOM 150.2 Transmission Media and Antenna Systems, Laboratory	1
ELC 106.2 Circuits II, Laboratory	1	<b>Total:</b>	<b>25</b>
ECE 163 Field Trips, Seminars	1		
<b>Total:</b>	<b>25</b>		

Total Number of Academic Units: 220  
Curriculum Effective Freshman Batch SY 2013-2014

### BACHELOR OF SCIENCE IN COMPUTER ENGINEERING

The five-year Computer Engineering Program prepares students to become quality engineers in information technology and computer applications. Graduates will have good communication and analytical skills gained from mathematics, science, engineering, and elective courses offered by the department. The Department puts special emphasis in the field of microelectronics and its application in the rapidly evolving field of digital systems. The hands-on and integrative approach aims to train students to become leaders in enterprises dealing with digital technologies.

#### FIRST YEAR

<u>First Semester</u>	<u>Units</u>	<u>Second Semester</u>	<u>Units</u>
EN 11 Communication in English I	3	EN 12 Communication in English II	3
LIT 13 Introduction to Fiction	3	LIT 14 Introduction to Poetry and Drama	3
FIL 11 Sining ng Pakikipagtalastasan sa Filipino I	3	CE 21 Introduction to Computing	3
MA 18A Principles of Modern Mathematics I	3	MA 21 Mathematical Analysis I	6
MA 18B Principles of Modern Mathematics II	3	PS 41 Analytical Physics I, Lecture	3
ECE 12 Computer-Aided Design	1	PS 41.1 Analytical Physics I, Laboratory	2
ECE 21 Engineering Workshop and Practices	2	PE 2 Physical Education	(2)
PE 1 Physical Education	(2)	INTAC 2 Introduction to Ateneo Culture and Traditions	(0)
INTAC 1 Introduction to Ateneo Culture and Traditions	(0)	<b>Total:</b>	<b>20</b>
<b>Total:</b>	<b>18</b>		

## SECOND YEAR

<u>Summer</u>		<u>Units</u>
CH 7	General Chemistry I, Lecture	3
CH 8	General Chemistry II, Laboratory	2
<i>Total:</i>		5

<u>First Semester</u>		<u>Units</u>	<u>Second Semester</u>		<u>Units</u>
TH 121	An Introduction to Doing a Catholic Theology	3	FIL 14	Panitikan ng Pilipinas	3
FIL 12	Sining ng Pakikipagtalastasansa Filipino II	3	HI 16/HI 18	Asian History/Western History	3
MA 22	Mathematical Analysis II	3	ENGMA 101	Engineering Mathematics I	3
FLC	Foreign Language and Culture	3	ELC 101.1	Introduction to Engineering and Circuits I, Lecture	3
CE 22	Introduction to Data Structures	3	ELC 101.2	Introduction to Engineering and Circuits I, Laboratory	1
PS 42	Analytical Physics II, Lecture	3	PS 43	Analytical Physics III, Lecture	3
PS 42.1	Analytical Physics II, Laboratory	2	PS 43.1	Analytical Physics III, Laboratory	2
PE 3	Physical Education	(2)	PE 4	Physical Education	(2)
NSTP 1	National Service Training Program	(3)	NSTP 2	National Service Training Program	(3)
<i>Total:</i>		20	<i>Total:</i>		18

## THIRD YEAR

<u>Summer</u>		<u>Units</u>
SA 21	Introduction to Sociology and Anthropology	3
ENGMA 102	Engineering Mathematics II	3
<i>Total:</i>		6

<u>First Semester</u>		<u>Units</u>	<u>Second Semester</u>		<u>Units</u>
PH 101	Philosophy of the Human Person I	3	PH 102	Philosophy of the Human Person II	3
TH 131	Marriage, Family Life and Human Sexuality in a Catholic Perspective	3	HI 165	Rizal and the Emergence of the Phil Nation	3
ENGMA 103	Engineering Mathematics III	3	CE 30	Algorithms and Problem Solving	3
ELC 102.1	Electronics I, Lecture	3	ENGPS 171	Electromagnetic Theory and Applications I	3
ELC 102.2	Electronics I, Laboratory	1	ELC 107.1	Electronics II, Lecture	3
ELC 106.1	Circuits II, Lecture	3	ELC 107.2	Electronics II, Laboratory	1
ELC 106.2	Circuits II, Laboratory	1	ELC 111.1	Switching Theory and Digital Design, Lecture	3
<i>Total:</i>		17	ELC 111.2	Switching Theory and Digital Design, Laboratory	1
			<i>Total:</i>		20

## FOURTH YEAR

<u>Summer</u>		<u>Units</u>
HI 166	Philippine History	3
PSY 101	General Psychology	3
<i>Total:</i>		6

<u>First Semester</u>		<u>Units</u>	<u>Second Semester</u>		<u>Units</u>
PH 103/	Philosophy of Religion/		PH 103/	Philosophy of Religion /	
PH 104	Foundations of Moral Value	3	PH 104	Foundations of Moral Value	3
TH 141/	A Theology of the Catholic Social Vision/		TH 141/	A Theology of the Catholic Social Vision /	
TH 151	The Catholic Commitment of Today's Filipino: A Synthesis	3	TH 151	The Catholic Commitment of Today's Filipino: A Synthesis	3
CIE 122	Database System	3	CIE 123	Introduction to Software Engineering	3
CIE 142	Computer Organization with Assembly	4	CIE 150	Computer Interfacing	3
ELC 141.1	Microprocessor Systems, Lecture	3	ECE 160	Engineering Economy	3
ELC 141.2	Microprocessor Systems, Laboratory	1	COE ELECTIVE		3
<i>Total:</i>		17	<i>Total:</i>		18

## FIFTH YEAR

<u>Summer</u>		<u>Units</u>
CIE 185	On-the-Job-Training	3
CIE 190	Research Seminar	1
<i>Total:</i>		4

<u>First Semester</u>		<u>Units</u>	<u>Second Semester</u>		<u>Units</u>
POS 100	Politics and Governance	3	CE 101	Techniques in Signal Processing	3
TCOM 141	Data Communications and Networking	3	CE 155	Operating Systems	3
CIE 130	Principles of VLSI with HDL	3	CIE 192	Thesis II	3
CIE 143	Data Communications and Networking	1	CIE 199	Emerging Technologies	3
CIE 175	Multimedia System	3	COE ELECTIVE		3
CIE 191	Thesis I	1	FREE ELECTIVE		3
FREE ELECTIVE		3	<i>Total:</i>		18
<i>Total:</i>		17			

## COURSE OFFERINGS

### CE 21

#### INTRODUCTION TO COMPUTING

**3 units**

*The first of a series of introductory courses offered to Physics, Chemistry, and Computer Engineering students.*

This course is an introduction to the fundamentals of programming, requiring the writing of simple programs in a particular language such as C/C++.

### CE 22

#### INTRODUCTION TO DATA STRUCTURES

**3 units**

**Pre-requisite:** CE 21  
*The second of a series of introductory programming courses offered to Physics, Chemistry, and Computer Engineering students.*

This course is a study of the fundamental concepts of data structures and algorithms. Topics include stacks, queues, lists, arrays, trees, and graphs, and sorting and searching algorithms, in the context of object-oriented programming.

### CE 30

#### ALGORITHMS AND PROBLEM SOLVING

**3 units**

**Pre-requisites:** CE 21, CE 22, MA 21

This course is a study of the numerical methods and the algorithms used in solving science and engineering problems. Topics include error analysis, matrices and finding roots of equations, curve fitting, numerical integration, and differentiation.

The course involves computer programming in C/C++.

### CE 33

#### NUMERICAL METHODS

**4 units**

**Pre-requisite:** ENGMA 104

This course is the study of direct and interactive numerical methods in engineering, determination of error bounds in calculations, computation of series expansions, roots of algebraic and transcendental equations, numerical differentiation and integration, solution to simultaneous linear and non-linear equations, function approximation and interpolation, differential equations, optimization, and their applications.

### CE 40

#### DIGITAL SYSTEMS DESIGN ANALYSIS

**3 units**

**Pre-requisites:** ELC 106.1 and ELC 106.2, or PS 142

This is a course on the fundamental concepts of digital design and their applications. Emphasis of practical exercises is on system design and controllers. Laboratory work is supplemented by lectures on combinational logic, LSI and MSI design, programmable logic design, memories, and system controllers.

### CE 101

#### TECHNIQUES IN SIGNAL PROCESSING

**3 units**

**Pre-requisite:** Fifth year standing  
*For computer engineering majors*  
This course is an introduction to digital signal processing (DSP),

with equal emphasis on theory and applications. Hands-on experience with DSP will be obtained through computer assignments in Matlab and real-time processing with the TI C54X hardware units.

### CE 126

#### SYSTEMS ANALYSIS DESIGN

**3 units**

**Pre-requisite:** CE 22, CE 23

This course covers the different phases of systems development and engineering with focus on analysis and design. It covers how to handle requirements, architectural design, integration and verification and shall be facilitated thru project team design approach in accordance with recognized standards.

### CE 140

#### COMPUTER ORGANIZATION

**5 units**

**Pre-requisite:** Fifth year standing  
This course is a study of the structure, characteristics, and operation of modern day computer systems. Emphasis is on fundamental principles, as well as the critical role of performance in driving computer design. Topics include the processing unit, memory, input-output systems, and networking concepts.

### CE 141

#### MICROPROCESSOR SYSTEMS

**5 units**

**Pre-requisites:** ELC 111.1 and ELC 111.2, or CE 40

This course is designed to equip the students with the fundamental concepts of microprocessor system and their applications. It also serves as an

introduction to computer organization and architecture. It focuses on practical exercises with emphasis on microprocessor programming, interfacing and controllers.

**CE 150**  
**COMPUTER INTERFACING**  
**3 units**

**Pre-requisites:** CE 40 or ELC 111.1 or CH 174

*Designed for senior Computer Engineering students.*

This course is a study of fundamental and hands-on concepts of sensors, computer interfacing and their applications. Topics include buffering; address decoding; command decoding; as well as timing and controlling data transfers between various peripherals and computer/microprocessor/controller.

**CE 155**  
**OPERATING SYSTEMS**  
**3 units**

**Pre-requisite:** Fifth year standing

This course is a study of the design and implementation of operating systems. Topics include a survey of evolved and developing operating systems, process scheduling and CPU allocations, memory management schemes, file system manipulation, secondary storage management, caching, performance evaluation, and techniques of improving operating systems.

**CE 160**  
**AUTOMATA AND FORMAL LANGUAGES**  
**3 units**

**Pre-requisite:** CE 21

This course is an introduction to automata and formal language theory. Topics include finite automata, regular expressions and grammars, push-down automata, context-free grammars, and context-sensitive grammars.

**CE 170**  
**COMMUNICATIONS SYSTEMS**  
**5 units**

**Pre-requisites:** ELC 106 or PS 142  
*Designed for fourth year*

*Computer Engineering students.*

This course equips the students with the fundamental concepts of telecommunications, computer telephony, and their applications to the industry. It covers topics on analog to digital conversion, fiber optics and microwave transmission, digital switching, access network and current technology on high speed/high capacity transmission systems.

**CE 180**  
**PROGRAMMING LANGUAGES FOR ENGINEERS**  
**3 units**

**Pre-requisites:** Digital Design, Microprocessor Systems

This course discusses various hardware programming languages such as VHDL and VERILOG. It provides an in-depth study of current and historical issues in the design, implementation, and application of programming languages. Topics include areas such as syntax, semantics, binding, data abstraction, exception handling, concurrency, and functional, logic and object-oriented programming.

**CE 181.21**  
**CODING AND INFORMATION THEORY**  
**3 units**

This course is an introduction to the various principles and techniques for reliable and efficient digital encoding of information. Topics include models for studying redundancy in codes and techniques to enable detection and correction of errors in encoded information that has been affected by noise.

**CE 190**  
**RESEARCH SEMINAR I**  
**2 units**

**Pre-requisite:** Fifth year standing

*The course is taken in the first semester leading to the completion of a Fifth year CE student project.*

This course is a critical discussion and investigation of a selected research project in computer engineering that focuses on the applications of electronics to computers and communications. Students present a project proposal on a chosen topic, an approved abstract, preliminary review of literature, and timetable.

**CE 191**  
**RESEARCH SEMINAR II**  
**3 units**

**Pre-requisite:** Fifth year standing

*The course is taken in the second semester leading to the completion of a Fifth year CE student project.*

This is a critical discussion and investigation of selected research project in computer engineering, focusing on the applications of electronics to computers and communications. It is devoted to the concrete realization of the proposed project that is presented to the department in a thesis defense.

**CE 195**  
**SPECIAL TOPICS**  
**3 units**

This is a course on the current trends and developments in the various fields of engineering. It may include the applications of computer engineering in other disciplines such as physics, medicine, biology, chemistry, communications, material science, energy and the environment.

**CE 195. 1****SPECIAL TOPICS:  
INNOVATION AND  
TECHNOLOGY****3 units****Pre-requisite: Fourth year standing**

This is a course on how new ideas radically change people's lives through a study of today's best innovators in the world such as Google and Apple, and how such companies innovate and adapt against disruptive forces, nimbly anticipating and even creating new markets.

**CE 195.2****SPECIAL TOPICS:  
INNOVATION AND NEW  
BUSINESSES****3 units****Pre-requisite: Fourth year standing**

This course discusses how new inventions are developed into new business opportunities. Starting with the newest inventions of the year, students develop concepts for new products. Focus is on the role of intellectual property in building the value of a company's portfolio of ideas.

**CE 199****SOFTWARE/HARDWARE  
PROJECT****3 units****Pre-requisite: Fifth year standing**

This course is a discussion of the latest available computer and electronics software and hardware technologies. Topics may include microelectronics, VLSI design, image processing, digital signal processing, power electronics, and mechatronics.

**CIE 122/CS 122****DATABASE SYSTEMS****3 units**

This course is an introduction to basic database knowledge required of the professional. Topics include the technical and

managerial implications of database application development.

**CIE 123/CS 123****INTRODUCTION TO  
SOFTWARE ENGINEERING****3 units**

This course is an overview of the software engineering process. Topics include requirement analysis, analysis modeling, software testing, quality assurance, quality processes and software maintenance, principles of object-oriented programming, programming languages, object-oriented modeling, and ethical issues in the field.

**CIE 130****PRINCIPLES OF VLSI WITH  
HDL****3 units****Pre-requisite: Fifth year standing**

This course discusses the VLSI design process. Topics include MOS technology; nMOS and CMOS inverter; technology of the semiconductor; basic logic elements; the logic design methods in nMOS and CMOS; VLSI design rules and layout; and Hardware Description Language (HDL) like Verilog or VHDL.

**CIE 133****INTRODUCTION TO ANALOG  
IC DESIGN****3 units****Pre-requisite: ELC 107**

This is an introductory lecture course on analog IC design. This course provides the foundation in the analysis and design of MOS and bipolar analog integrated circuits, it also gives emphasis to practical design of IC circuits, especially on highly intuitive, hand-calculation approach for analog design.

**CIE 142****COMPUTER ORGANIZATION  
WITH ASSEMBLY****4 units****Pre-requisites: ELC 111.1 and ELC 111.2**

This course is a study of the structure, characteristics and operation of modern day computer systems. Emphasis is on fundamental principles and the critical role of performance in driving computer design. Topics include processing unit, memory, input-output systems, and networking concepts.

**CIE 143****DATA COMMUNICATIONS  
AND NETWORKING,  
LABORATORY****1 unit****Pre-requisite: TCOM 141**

This is a laboratory component of TCOM 141.

**CIE 150****COMPUTER INTERFACING****3 units****Pre-requisites: ELC 111.1 and ELC 111.2**

This course studies the fundamental principles of transduction and sensors, coupled with hands-on exercises on computer interfacing and the integration of sensors in systems. Topics include buffering, address and command decoding, timing and control for reliable data transfer and telemetry between peripherals, controllers and sensor nodes.

**CIE 185****ON-THE-JOB-TRAINING****3 units****Pre-requisite: Fifth year standing**

This course provides students with field exposure through industry partners or R&D institutions. Students apply the various principles learned in their courses, develop their awareness of environmental, ethical, and behavioral concerns, and hone



their skills in decision-making as well as equipment and system management.

**CIE 190**  
**RESEARCH SEMINAR**  
**1 unit**

**Pre-requisite:** Fifth year standing  
This course is a critical discussion and investigation of a selected research project in computer engineering. The course provides students with a venue to discuss and present the various principles and concepts learned from the undergraduate CoE courses.

**CIE 191**  
**THESIS I**  
**1 unit**

**Pre-requisite:** Fifth year standing  
This course is a critical discussion and investigation of a selected research project that focuses on the applications of electronics to computers and communications. The course is devoted to the initial concrete realization of the proposed project.

**CIE 192**  
**THESIS II**  
**3 units**

**Pre-requisite:** Fifth year standing  
This course is a critical discussion and investigation of a selected research project that focuses on the applications of electronics to computers and communications. The course is devoted to the concrete realization of the proposed project that is presented to the department in a thesis defense.

**CIE 195**  
**SPECIAL TOPICS**  
**3 units**

This course is a discussion on current trends and developments in the various fields of computer engineering. Topics include the applications of computer engineering in other disciplines such as physics, medicine, biology, chemistry, education,

communications, materials science, environment, and other fields of engineering.

**CIE 199**  
**EMERGING TECHNOLOGIES**  
**3 units**

This course is a study on emerging technologies, current trends, and developments in the various fields of computer engineering. Topics include the applications of computer engineering in other disciplines such as physics, medicine, biology, chemistry, education, communications, materials science, environment, and other fields of engineering.

**ECE 11**  
**DRAWING/DRAFTING,**  
**LABORATORY**  
**1 unit**

This course provides the students with basic knowledge and skills of drafting and takes them to more interesting and advanced engineering drawing techniques and procedures. It aims to develop their skill and ability to create and make three-dimensional image with pencils, compass, triangles, irregular curves, and T-squares.

**ECE 12**  
**COMPUTER-AIDED DESIGN,**  
**LABORATORY**  
**1 unit**

**Pre-requisite:** ECE 11  
This course studies the fundamentals of computer-aided design (CAD) and drafting. The manual drawings drafted in ECE 11 are redrawn using CAD tools. Basic drawing commands and advanced techniques are introduced, including three dimensional drawing. Schematic and printed circuit board design tools are also covered.

**ECE 20**  
**ENGINEERING WORKSHOP**  
**AND PRACTICES**  
**1 unit**

This is an introduction to engineering workshop practices and basic machine shop techniques including the correct, safe and efficient use of machine shop tools and equipment. The course also covers the practical and realistic approach in planning, designing, and construction of electronic equipment.

**ECE 21**  
**ENGINEERING WORKSHOP**  
**AND PRACTICES**  
**2 units**

This course is an introduction to engineering workshop practices and basic machine shop techniques including the correct, safe, and efficient use of machine shop tools and equipment. The course also covers the practical and realistic approach in planning, designing, and construction of electronic equipment.

**ECE 150**  
**MATERIALS SCIENCE**  
**AND ENGINEERING**  
**3 units**

**Pre-requisites:** CH 7, CH 8  
This course discusses the physics of materials with emphasis on the mechanical, acoustical, electrical, magnetic, chemical, optical, acoustical and thermal properties of various materials such as polymers, ceramics, glasses and semiconductors.

**ECE 160**  
**ENGINEERING ECONOMY**  
**3 units**

This course deals with the behavior and performance of the economy and the role, function and interaction of the market, State, households, and firms. The course covers macro and microeconomic concepts,



principles of accounting, time value of money, and capital investment decision criteria, and applications.

**ECE 161  
ENGINEERING  
MANAGEMENT  
2 units**

This course deals with the principles of accounting, time value of money, and capital investment decision criteria. It also includes a discussion on industrial organization and management concepts, theories, and practices. The course also touches on human behavior and gives an introduction to various decision-making tools.

**ECE 162  
ENGINEERING LAWS,  
CONTRACTS AND ETHICS  
2 units**

**Pre-requisite: Fifth year standing**

This course covers ECE laws and regulations, focusing on the legal and ethical positions of the professional engineer. Topics include contracts, warranties, liabilities, patents, bids, and insurance.

**ECE 163  
FIELD TRIPS, SEMINARS  
LABORATORY  
1 unit**

**Pre-requisite: Fifth Year Standing.**

This is a combination of seminars and lectures on current developments in the field of electronics and communications. It also involves exposure trips to electronics and communications facilities of various companies and plants.

**ECE 190.1/ECE 191.1  
PRACTICUM I AND II  
1 / 3 units**

**Pre-requisite: Fifth year standing**

This course allows students to gain industry exposure in the field of electronics, computers and

communications systems. It gives them the opportunity to apply the various principles learned in other ECE courses, apart from developing awareness of environmental, ethical and behavioral concerns, and honing their skills in decision-making, and equipment and materials management.

**ECE 190.2/ECE 191.2  
RESEARCH SEMINAR  
I AND II  
2 / 3 units**

**Pre-requisite: Fifth year standing**

This course is a seminar on current technology in electronics, computers, and telecommunications. It is also a project study of selected aspects of the industry, methods of research, and principles of electronic and communications design. This extends over two semesters leading to the completion of a project that is presented to the department in a thesis defense.

**ECCE 191  
THESIS I  
2 units**

**Pre-requisite: Fifth year standing**

A critical discussion and investigation of a selected research project that focuses on the application of electronics to computers and communications. The course is devoted to the initial concrete realization of the proposed project.

**ECCE 192  
THESIS II  
2 units**

**Pre-requisite: Fifth year standing**

A critical discussion and investigation of a selected research project that focuses on the application of electronics to computers and communications. The course is devoted to the initial concrete realization of the proposed project.

**ELC 101.1  
INTRODUCTION TO  
ENGINEERING AND  
CIRCUITS I,  
LECTURE**

**3 units**

**Pre-requisites: PS 43, PS 32, MA 21**

**Co-requisite: MA 22**

This course is an introduction to the basic concepts of the DC and AC circuit analysis. Topics include circuit theory, methods of circuit analysis, network theorems, solution of network problems, Laplace transforms, and transient analysis.

**ELC 101.2  
INTRODUCTION TO  
ENGINEERING AND  
CIRCUITS I,  
LABORATORY**

**1 unit**

**Pre-requisites: PS 32, MA 21**

This is an accompanying laboratory part of ELC 101.1.

**ELC 102.1  
ELECTRONICS I,  
LECTURE**

**3 units**

**Pre-requisites: ELC 101.1 and ELC 101.2, ENGMA 101**

This course covers the principles of linear circuits with a focus on AC circuits. Topics include complex algebra and phasors, frequency domain analysis, impedance and admittance, mesh and node analysis, network theorems, power, resonance, three-phase circuits, transformer, two-port network parameters, and transfer functions.

**ELC 102.2  
ELECTRONICS I,  
LABORATORY**

**1 unit**

**Pre-requisites: ELC 101.1 and ELC 101.2, ENGMA 101**

This is an accompanying laboratory part of ELC 102.1.

**ELC 106.1  
CIRCUITS II,  
LECTURE**

**3 units**

**Pre-requisites:** ELC 102.1 and ELC 102.1

This course discusses electronic circuit devices and models as well as the principles of semiconductor devices. Students are introduced to charge carriers and conduction mechanisms.

**ELC 106.2  
CIRCUITS II,  
LABORATORY**

**1 unit**

**Pre-requisites:** ELC 102.1 and ELC 102.1

This is a complementary laboratory course taken concurrently with ELC 106.1.

**ELC 107.1  
ELECTRONICS II,  
LECTURE**

**3 units**

**Pre-requisites:** ELC 106.1 and ELC 106.2, ELC 102.1

This course is a study of the theory and application of transistor circuits. Students characterize frequency responses and stability, analyze and/or design various transistor amplifiers, differential amplifiers, and operational amplifiers.

**ELC 107.2  
ELECTRONICS II,  
LABORATORY**

**1 unit**

**Pre-requisites:** ELC 106.1 and ELC 106.2, ELC 102.1

This is a complementary laboratory course taken concurrently with ELC 107.1.

**ELC 111.1  
SWITCHING THEORY AND  
DIGITAL DESIGN, LECTURE**

**3 units**

**Pre-requisites:** ELC 107.1 and ELC 107.2, ELC 102.1

This introductory course deals with digital electronics and logic

switching theory, including the different number systems and Boolean, the basic units of a computer, the logic gates, combinational logic including Karnaugh maps, logic arrays, the design of the arithmetic logic unit (ALU), and sequential elements.

**ELC 111.2  
SWITCHING THEORY AND  
DIGITAL DESIGN,  
LABORATORY**

**1 unit**

**Pre-requisites:** ELC 107.1 and ELC 102.1

This is an accompanying laboratory part of ELC 111.1.

**ELC 112.1  
ADVANCED DIGITAL  
DESIGN, LECTURE**

**3 units**

**Pre-requisites:** ELC 111.1, ELC 111.2

This course on digital design focuses on different methodologies and styles in hardware modelling with emphasis on the use of hardware description languages. It covers very high speed integrated circuit hardware description language fundamental language concepts and elements and the different levels of description.

**ELC 112.2 ADVANCED  
DIGITAL DESIGN,  
LABORATORY**

**1 unit**

**Pre-requisites:** ELC 111.1, ELC 111.2

This is a complimentary laboratory course taken concurrently with ELC 112.1

**ELC 121  
INTRODUCTION TO  
MEDICAL  
INSTRUMENTATION,  
LECTURE**

**3 units**

**Pre-requisites:** General Biology, General Chemistry, General Physics

This is a course on medical instrumentation. It covers the theory and concepts of basic electronic instrumentation and medical instrumentation.

**ELC 122  
INTRODUCTION TO  
MEDICAL  
INSTRUMENTATION,  
LABORATORY**

**2 units**

**Pre-requisites:** General Biology, General Chemistry, General Physics

This is a laboratory course that covers the description and application of different medical instruments.

**ELC 141.1  
MICROPROCESSOR SYSTEMS,  
LECTURE**

**3 units**

**Pre-requisites:** ELC 111.1 and ELC 111.2, or CE 40

This is a course that surveys different microprocessors and their characteristics. Emphasis is placed on the design and implementation of microprocessor-based digital systems. It also covers memory and I/O devices, buses, and different interfacing techniques.

**ELC 141.2  
MICROPROCESSOR SYSTEMS,  
LABORATORY**

**1 unit**

**Pre-requisites:** ELC 111.1 and ELC 111.2

This is a complementary laboratory course taken concurrently with ELC 141.1.

**ELC 151.1  
LINEAR AND CONTROL  
SYSTEMS, LECTURE**

**3 units**

**Pre-requisites:** ELC 102.1, ELC 102.2, and Fourth year standing

This course deals with the study of linear feedback control systems. Topics include system

representations via transfer functions, signal flow graphs, root locus, Bode, Nyquist and Polar plots, and a study of system sensitivity and stability criteria, compensation techniques and digital control techniques.

**ELC 151.2**  
**LINEAR AND CONTROL**  
**SYSTEMS, LABORATORY**  
**1 unit**

**Pre-requisites:** ELC 102.1, ELC 102.2, and fourth year standing  
 This is an accompanying laboratory course for ELC 151.1.

**ELC 152.1**  
**DIGITAL SIGNAL**  
**PROCESSING, LECTURE**  
**3 units**  
**Pre-requisite:** ENGMA 104, CE 21

This course discusses the fundamental concepts and practical application of digital signal processing, including at its core the time and frequency domain analysis and synthesis of discrete-time signals and systems. Signal processing algorithms are applied to real-world signals such as audio, images and video.

**ELC 152.2**  
**DIGITAL SIGNAL**  
**PROCESSING, LABORATORY**  
**1 unit**  
**Pre-requisite:** ENGMA 104, CE 21

This is an accompanying laboratory course for ELC 152.1

**ELC 181.1**  
**SIGNAL PROCESSING FOR**  
**TELECOMMUNICATIONS**  
**3 units**

**Pre-requisite:** Fifth year standing  
 This course covers various signal processing techniques. Emphasis is on their application to speech and image processing. Topics include Z-transform, convolution, FIR filters, HR filters, random signal analysis, correlation functions, discrete Fourier

transforms (DFTs), fast Fourier transforms (FTFs), and spectral analysis.

**ELC 181.2**  
**INDUSTRIAL ELECTRONICS**  
**3 units**

**Pre-requisites:** ELC 102.1 and ELC 102.2  
 This course deals with the theory and operating characteristics of electronic devices and control circuits for industrial processes; industrial control applications; electronics instrumentation, transducers; data acquisition systems, power supply and voltage regulator.

**ELC 181.3**  
**IMAGE PROCESSING**  
**3 units**

**Pre-requisite:** Fifth year standing  
 This course deals with the study of elements of image processing from representation to recognition. Topics include image transforms, enhancement, restoration, compression, recognition, and interpretation.

**ELC 181.4**  
**ROBOTICS**  
**3 units**  
**Pre-requisite:** Regular Fifth year standing

This course deals with the study of basic principles used in the design, analysis, and synthesis of robotic systems. Topics include the basic analytical techniques and fundamental principles of robotics, the design of mechanical and electrical components, sensors technology, computer systems, and artificial intelligence.

**ENGMA 10**  
**PLANE AND SPHERICAL**  
**TRIGONOMETRY/SOLID**  
**MENSURATION**  
**3 units**

**Pre-requisites:** MA 18 A/B  
 This course is the study of various properties of triangles on the plane and on the sphere,

especially relationships among the sides and angles of such triangles. It also surveys applications of these properties and of solid mensuration and analytic geometry in engineering.

**ENGMA 14**  
**DISCRETE MATHEMATICS**  
**FOR ENGINEERS**  
**3 units**

**Pre-requisites:** MA 18 A/B  
 This is an introductory course in discrete mathematics oriented towards computer engineering. The course covers mathematical reasoning, algorithms, and counting techniques and provides the student with a strong background in Boolean algebra and models of computation in preparation for computer programming and digital system design.

**ENGMA 101**  
**ENGINEERING**  
**MATHEMATICS I**  
**3 units**

**Pre-requisite:** MA 22  
 This course deals with the study of differential equations as applied to engineering problems. Topics include ordinary differential equations of the first order; linear differential equations with constant coefficients; simultaneous linear differential equations; eigenvalues and eigenvectors.

**ENGMA 102**  
**ENGINEERING**  
**MATHEMATICS II**  
**3 units**

**Pre-requisites:** ENGMA 101, MA 21  
 This course deals with the study of vector analysis, series expansions, and complex analysis as applied to engineering problems. Topics include determinants and matrices, power series expansion, Fourier series, Fourier transforms, Laplace transforms, Hilbert transforms, Z

transforms, and complex variables.

**ENGMA 103  
ENGINEERING  
MATHEMATICS III  
3 units**

**Pre-requisites:** MA 21 and MA 22

This course deals with the study of statistics as applied to engineering problems. Topics include basic principles, charts, graphs, presentations and analysis of data averages, median, mode, deviations, probability, normal curves, and applications.

**ENGMA 104  
ADVANCED ENGINEERING  
MATHEMATICS  
3 units**

**Pre-requisite:** ENGMA 102

This course is a study of selected topics in mathematics and their applications in advanced courses in engineering and other allied sciences.

**ENGPS 41  
ENGINEERING MECHANICS  
5 units**

**Co-requisites:** MA 21, PS 14/PS 15

This course is focused on the fundamental principles of engineering mechanics. The first part of the course deals with statistics. It includes the topics on forces; force components and resultants; and equilibrium of forces and rigid bodies. The second part deals with dynamics.

**ENGPS 42  
STRENGTH OF MATERIALS  
3 units**

**Pre-requisite:** ENGPS 41

This course focuses on the strength of solid materials. It includes the topics on axial stress and strain; stresses for torsion and bending; combined stresses; beam deflections; indeterminate beams; and elastic instability.

**ENGPS 43  
THERMODYNAMICS  
3 units**

**Pre-requisite:** ENGPS 42

This course discusses the fundamental concepts of energy and heat transfer. It includes a discussion on the Laws of Thermodynamics; energy and property relationships; ideal gas laws; thermodynamics processes and cycle; and mechanisms of heat transfer.

**ENGPS 133  
OPTO-ELECTRONICS AND  
DEVICE PHYSICS  
4 units**

**Pre-requisites:** PS 14, PS 15, ENGPS 43, CH 7, CH 8

This course covers modern physics with introductory solid state and device physics. It contains all the essential materials needed to understand the physics and applications of modern electronic materials and devices with emphasis on semiconductors.

**ENGPS 171  
ELECTROMAGNETIC THEORY  
AND APPLICATIONS I  
4 units**

**Pre-requisites:** PS 42, PS 33, PS 43, PS 32, ENGMA 102

*The first of a two-part electromagnetics course for ECE majors.*

The lecture segment deals with the electromagnetic theory of communications equipment.

Topics covered are vector analysis, electrostatics, magnetostatics, dielectric and magnetic materials, coupled circuits, magnetic circuits and slowly time-varying fields. The laboratory component focuses on selected experiments in the following areas: antenna polarization, transmission lines, and radio wave propagation.

**ENGPS 172  
ELECTROMAGNETIC THEORY  
AND APPLICATIONS II  
3 units**

**Pre-requisite:** ENGPS 171

*The second of a two-part course on electromagnetics for ECE majors.*

This course completes the in-depth discussion of concepts introduced in ENGPS 171, providing the students a broader understanding of the electromagnetic theory as a foundation in the various fields of communication and electronics.

**ENGSCI 41  
ENGINEERING MECHANICS I  
3 units**

**Pre-requisite:** MA 21, PS 51

This is a course on Newtonian physics concepts such as force, mass, acceleration, momentum and impulse. Statics and dynamics of particle and rigid bodies are also studied.

**ENGSCI 42  
ENGINEERING MECHANICS  
II  
2 units**

**Pre-requisite:** ENGSCI 41

This is a course on Newtonian physics concepts such as force, mass, acceleration, momentum and impulse. Statics and dynamics of particle and rigid bodies are also studied.

**ENGSCI 43  
THERMODYNAMICS  
2 units**

**Pre-requisites:** ENGSCI 41, ENGSCI 42

This course covers the Laws of Thermodynamics, entropy, energy and property relationships, ideal gas laws, thermodynamic processes and cycles, and mechanisms for heat transfer. Topics also include the thermodynamic underpinnings of semiconductor materials via the Boltzmann and Fermi-Dirac distributions.

**ENGSCI 44**  
**MECHANICS OF**  
**DEFORMABLE BODIES**  
**3 units**

**Pre-requisites:** ENGSCI 41,  
ENGSCI 42

This course deals with the study of strength of solid materials and vibration analysis. Topics include axial stress and strain; stresses for torsion and bending; combined stresses and beam deflections as well as oscillations and waves, coupled oscillators, resonance and instability in mechanical systems, indeterminate beams; and elastic instability.

**ENGSCI 45**  
**ENERGY CONVERSION AND**  
**SYSTEMS**  
**4 units**

**Pre-requisites:** ENGPS 171, ELC  
106.1, ELC 106.2

This course deals with the study of principles of energy conversion and transducers: electromechanical, photoelectric, photovoltaic, thermoelectric, piezoelectric; hall effect; reed switch; electrochemical, etc.; generators, transformers; dynamic analysis, and fuel cells.

**ENGSCI 130**  
**COMPLEX SYSTEMS**  
**3 units**

**Pre-requisite:** Fourth year  
standing

This course discusses the general principles of the science of complexity. Techniques for modeling and simulation of complex systems are discussed, which includes nonlinear and chaotic dynamics, information theory, computation, genetic algorithms, game theory and network theory, Turing machines and cellular automata.

**TCOM 121.1**  
**PRINCIPLES OF**  
**COMMUNICATIONS I,**  
**LECTURE**  
**3 units**

**Pre-requisite:** ENGMA 102  
*The first of a two-part series of introductory courses on the principles of communication systems.*

This course emphasizes on signal modulation and transmission. Topics include the design of filters and noise reduction circuits; amplitude, frequency, and phase modulation; pulse modulation; time and frequency division multiplexing; bit-error rate; and matched filter concept.

**TCOM 121.2**  
**PRINCIPLES OF**  
**COMMUNICATIONS I,**  
**LABORATORY**  
**1 unit**

**Pre-requisite:** ENGMA 102  
This is a complementary laboratory course for TCOM 121.1.

**TCOM 122.1**  
**PRINCIPLES OF**  
**COMMUNICATIONS II,**  
**LECTURE**  
**3 units**

**Pre-requisites:** TCOM 121.1 and  
TCOM 121.2,  
ENGMA 102  
*The second of a two-part series of introductory courses on the principles of communication systems*

This is a course on digital modulation, ASK, FSK and PSK systems; signal space concepts; generalized orthonormal signals; information measures-entropy; channel capacity concept; efficient encoding; error correcting codes in information theory; data compression.

**TCOM 122.2**  
**PRINCIPLES OF**  
**COMMUNICATIONS II,**  
**LABORATORY**  
**1 unit**

**Pre-requisites:** TCOM 121.1 and  
TCOM 121.2,  
ENGMA 102  
This is a complementary laboratory course for TCOM 122.1.

**TCOM 126**  
**COMMUNICATIONS**  
**SYSTEMS ANALYSIS AND**  
**DESIGN**  
**3 units**

**Pre-requisites:** ENGMA 102,  
TCOM 122.1 and TCOM 122.2  
This course deals with communication systems planning and design and application of theory to actual systems such as terrestrial microwave, cellular telephony and satellite communications. Topics include system link equations and link budget, design considerations and challenges, microwave devices, cellular telephone concepts, and system performance.

**TCOM 141.1**  
**DATA COMMUNICATIONS**  
**AND NETWORKING**  
**3 units**

**Co-requisites:** TCOM 121.1 and  
TCOM 121.2

This course is an introduction to data communications and networking. Topics include transmission media, analog and digital signals, data transmission, network topologies, and network protocols including OSI and TCP/IP suite of protocols. Other topics include common carrier services, wireless communications, and mobile systems.



**TCOM 141.2  
DATA COMMUNICATIONS  
AND NETWORKING  
1 unit**

**Pre-requisite: Digital  
Communications**

The course discusses data communication systems; terminals, modems; terminal control units; multiplexers; concentrators; front-end processors; common carrier services; data communication system design; computer network models; TCP/IP principles; LAN; WAN; sample case studies.

**TCOM 142  
SWITCHING NETWORKS  
AND TRAFFIC CONCEPTS  
3 units**

**Pre-requisites: TCOM 122.1 and  
TCOM 122.2**

This course introduces signal switching and traffic analysis in networks. Topics include switching systems and telephony including voice over IP, TDMA, FDMA, CDMA, space and time division switching, circuit and packet switching, switch architectures, traffic measurement and analysis, network congestion, and future trends.

**TCOM 143  
NETWORKING  
LABORATORY  
2 units**

*Laboratory component of TCOM 141 that must be taken either concurrently or after TCOM 141.*

These are laboratory exercises that are designed to give students practical and hands-on applications in networking and data communications.

**TCOM 150.1  
TRANSMISSION MEDIA AND  
ANTENNA SYSTEMS,  
LECTURE  
3 units**  
**Pre-requisites: TCOM 121.1,  
TCOM 121.2**

This is a course on the different transmission media, with emphasis on optical and wireless communications. Topics include fiber-optics, photonics, lightwave communications, radio wave propagation, wire and cable transmission systems, transmission media; fiber-optic transmission system; transmission lines and antenna systems.

**TCOM 150.2  
TRANSMISSION MEDIA AND  
ANTENNA SYSTEMS,  
LABORATORY  
1 unit**

**Pre-requisites: Digital  
Communications,  
Electromagnetics**

This is an accompanying laboratory for TCOM 150.1.

**TCOM 151.1  
OPTICAL COMMUNICATIONS  
AND TRANSMISSION MEDIA,  
LECTURE  
3 units**

**Pre-requisites: TCOM 121.1 and  
TCOM 121.2**

This course discusses different transmission media with emphasis on optical and wireless communications. Topics include fiber-optics; photonics, radio wave and microwave propagation, and optical signal communication.

**TCOM 151.2  
OPTICAL COMMUNICATIONS  
AND TRANSMISSION MEDIA,  
LABORATORY  
1 unit**

**Pre-requisites: TCOM 121.1 and  
TCOM 121.2**

This is an accompanying laboratory course for TCOM 151.1.

**TCOM 152.1  
BROADCASTING  
ENGINEERING AND  
ACOUSTICS, LECTURE  
3 units**

**Pre-requisites: TCOM 151.1 and  
TCOM 151.2**

This is a course on signaling and sound recording techniques and their transmission. Topics include filters, oscillators and mixers, audio amplifiers, international broadcasting standards as well as modern streaming technologies; modern recording systems and production, electroacoustics and sound propagation in different media.

**TCOM 152.2  
BROADCASTING  
ENGINEERING AND  
ACOUSTICS,  
LABORATORY  
1 unit**

**Pre-requisites: TCOM 151.1 and  
TCOM 151.2**

This is an accompanying laboratory course for TCOM 152.1.

**TCOM 181.1  
SPECIAL TOPICS:  
BROADCASTING AND  
ACOUSTICS  
3 units**

**Pre-requisites: TCOM 151.1 and  
TCOM 151.2**

This is a course on filters and oscillators; radio frequency power amplifiers; mixers; modulation and demodulation circuits; transmitters; studio acoustics; recording and reproduction of audio and video by tape, disc, and film; multimedia streaming and video hosting.

**TCOM 181.2  
SPECIAL TOPICS:  
MULTIMEDIA  
3 units**

This course deals with the study of color theory, image design and processing, video productions and interactive presentations.

Students are required to produce an individual portfolio containing various images created during the semester.

**TCOM 181.3**  
**SPECIAL TOPICS: SATELLITE COMMUNICATIONS**  
**3 units**

This course is a comprehensive study of satellite systems and their applications in telecommunications and location finding (GPS). Topics include non-geostationary satellites such as low orbits (HEO), the generations of satellites launched, the launching process, and existing satellites.

**TCOM 181.4**  
**SPECIAL TOPICS: MOBILE AND CELLULAR COMMUNICATIONS**  
**3 units**

**Pre-requisite: Fifth year standing**

This course aims to extend the theoretical knowledge and understanding into the field of mobile-radio communication design.

**TCOM 181.5**  
**SPECIAL TOPICS: TELEPHONY**  
**3 units**

**Pre-requisite: Fifth year standing**

This course provides a technical overview of telecommunication networks from a systems viewpoint. Topics include the design concepts of practical

telecommunication networks, new traffic routing techniques, network design configurations, and voice over IP.

**TCOM 181.6**  
**TELECOMMUNICATION MANAGEMENT/POLICY**  
**3 units**

This course deals with the study of issues faced by companies in the global telecommunications market. Topics include policy and regulation, human resource management, business management, network planning, information systems management, and telecommunications engineering.

Manila Observatory  
(632) 426-6001 loc. 5650/5651  
fax: (632) 426-4321  
envirsci@admu.edu.ph  
<http://www.ateneo.edu/lis/sose/environmental-science>

# ENVIRONMENTAL SCIENCE

**Emilyn Q. Espiritu**  
*Chair*

**Faculty**  
*Associate Professor*  
Emilyn Q. Espiritu

**Assistant Professors**  
Rene Juna R. Claveria  
Charlotte Kendra Z. Gotangco  
Ma. Aileen Leah G. Guzman  
Ian A. Navarrete  
Severino G. Salmo III

**Instructors**  
Abigail Marie T. Favis  
Jewel Racquel S. Unson

**Lecturers**  
James Michael L. Araneta  
Jonah L. Bondoc  
Bonifacio V. Labatos, Jr.  
Antonio Gabriel M. La Viña  
Teresita R. Perez  
Deborah M. Villa

**Faculty of Other Departments**  
*Professor*  
Rainier A. Ibana

Two of the most crucial challenges facing human society are environmental protection and sustainable development. The solutions require an understanding of both nature and human society. Therefore, for Environmental Science to be effective, it needs a holistic and interdisciplinary approach to these environmental problems.

The Department of Environmental Science provides the essential knowledge and skills in a wide range of disciplines, and encourages the student to apply these to real world problems. Its graduates are active in industry as environmental officers, consultants, and researchers.

## The Department

- envisions a vibrant and nurtured environment that sustains life and enriches human welfare,
- seeks to form technically competent, socially aware and culturally rooted environmental practitioners who will lead government, industry and civil society,
- espouses excellence, multidisciplinary and teamwork, intellectual and moral integrity and responsiveness to the needs of the times, and
- commits itself to providing sustainable solutions to the challenge of air and water quality and environmental management in the 21<sup>st</sup> century.



## BACHELOR OF SCIENCE IN ENVIRONMENTAL SCIENCE

The BS Environmental Science (BS ES) curriculum combines the empirical focus of the natural sciences with the pro-active methodologies of management and the social sciences. It provides a broad disciplinary foundation needed to address many of today's complex environmental problems.

### FIRST YEAR

<u>First Semester</u>	<u>Units</u>	<u>Second Semester</u>	<u>Units</u>
EN 11 Communication in English I	3	EN 12 Communication in English II	3
LIT 13 Introduction to Fiction	3	LIT 14 Introduction to Poetry and Drama	3
FIL 11 Sining ng Pakikipagtalastasan sa Filipino I	3	MA 20.3A Applied Calculus for Life Sciences I	3
MA 18A Principles of Modern Mathematics I	3	CH 7 General Chemistry I, Lecture	3
ES 10 Introduction to Environmental Sciences, Lec	3	CH 8 General Chemistry I, Laboratory	2
ES 12 Introduction to Environmental Sciences, Lab	1	FLC Foreign Language and Culture	3
PE 1 Physical Education	(2)	PE 103 Physical Education - Swimming	(2)
INTAC 1 Introduction to Ateneo Culture and Traditions	(0)	INTAC 2 Introduction to Ateneo Culture and Traditions	(0)
<b>Total:</b>	<b>16</b>	<b>Total:</b>	<b>17</b>

### SECOND YEAR

<u>First Semester</u>	<u>Units</u>	<u>Second Semester</u>	<u>Units</u>
MA 20.3B Applied Calculus for Life Sciences II	3	TH 121 An Introduction to Doing a Catholic Theology	3
CH 11 General Chemistry II, Lecture	3	FIL 12 Sining ng Pakikipagtalastasan sa Filipino II	3
CH 12 General Chemistry II, Laboratory	2	ES 155 Introduction to Earth Sciences, Lecture	3
BI 100 General Biology I, Lecture	3	ES 156 Introduction to Earth Sciences, Laboratory	2
BI 100.1 General Biology I, Laboratory	2	BI 101 General Biology II, Lecture	3
STAT 105 Statistics for Life Sciences	3	BI 101.1 General Biology II, Laboratory	2
PE 3 Physical Education	(2)	HI 16/BI 18 Asian History/Western History	3
NSTP 1 National Service Training Program	(3)	PE 4 Physical Education	(2)
<b>Total:</b>	<b>16</b>	NSTP 2 National Service Training Program	(3)
		<b>Total:</b>	<b>19</b>

### THIRD YEAR

<u>First Semester</u>	<u>Units</u>	<u>Second Semester</u>	<u>Units</u>
PH 101 Philosophy of the Human Person I	3	PH 102 Philosophy of the Human Person II	3
FIL 14 Panitikan ng Pilipinas	3	TH 131 Marriage, Family Life and Human Sexuality in a Catholic Perspective	3
ES 110 Environmental Ecology, Lecture	3	CH 35 Quantitative Analysis, Lecture	3
ES 111 Environmental Ecology, Laboratory	2	CH 36 Quantitative Analysis, Laboratory	2
PS 31 Elementary Physics I, Lecture	3	BI 120 Introduction to Microbiology, Lecture	2
PS 31.1 Elementary Physics I, Laboratory	2	BI 120.1 Introduction to Microbiology, Laboratory	1
<b>Total:</b>	<b>16</b>	EC 102 Basic Economics, Agrarian Reform and Taxation	3
		<b>Total:</b>	<b>17</b>

### FOURTH YEAR

<u>First Semester</u>	<u>Units</u>	<u>Second Semester</u>	<u>Units</u>
PH 103 Philosophy of Religion	3	PH 104 Foundations of Moral Value	3
TH 141 A Theology of the Catholic Social Vision	3	TH 151 The Catholic Commitment of Today's Filipino: A Synthesis	3
ES 160 Introduction to Environmental Pollution, Lec	3	PSY 101 General Psychology	3
ES 161 Introduction to Environmental Pollution, Lab	1	BI 171/ Principles of Systematics/	
POS 100 Politics and Governance	3	BI 175 Biodiversity and Conservation	2
SA 21 Introduction to Sociology and Anthropology	3	ES 131 Introduction to Computer Modeling and Simulation, Lecture	3
ES ELECTIVE	3	ES 132 Introduction to Computer Modeling and Simulation, Laboratory	1
<b>Total:</b>	<b>19</b>	ES 180 Special Topics in Environmental Science	3
		<b>Total:</b>	<b>18</b>

### FIFTH YEAR

<u>Summer</u>	<u>Units</u>		
ES 100 Environmental Monitoring, Lecture	3		
ES 101 Environmental Monitoring, Laboratory	3		
<b>Total:</b>	<b>6</b>		

<u>First Semester</u>	<u>Units</u>	<u>Second Semester</u>	<u>Units</u>
HI 165 Rizal and the Emergence of the Philippine Nation	3	HI 166 Philippine History	3
ES 190 Senior Thesis I	3	ES 176 Environmental Impact Assessment	3
ES ELECTIVE (ENV'TAL STUDIES/MANAGEMENT)	3	ES 191 Senior Thesis II	3
ES ELECTIVE (ENV'TAL STUDIES/MANAGEMENT)	3	ES ELECTIVE (ENV'TAL STUDIES/MANAGEMENT)	3
FREE ELECTIVE	3	FREE ELECTIVE	3
<b>Total:</b>	<b>15</b>	<b>Total:</b>	<b>15</b>

Total Number of Academic Units: 174  
Curriculum Effective Freshman Batch SY 2009-2010

## COURSE OFFERINGS

**ES 10**  
**INTRODUCTION TO**  
**ENVIRONMENTAL SCIENCES,**  
**LECTURE**  
**3 units**

This is a basic environmental studies course that combines an interdisciplinary approach in understanding the environment and also considers the various socio-economic issues which affect the environment. It covers the natural environment, aspects of human impact on the environment, and environment management and policy.

**ES 12**  
**INTRODUCTION TO**  
**ENVIRONMENTAL SCIENCES,**  
**LABORATORY**  
**1 unit**

*For non-science majors.*

This is a basic environmental studies course that combines an interdisciplinary approach in understanding the environment and also considers the various socio-economic issues which affect the environment. It covers the natural environment, aspects of human impact on the environment, and environment management and policy.

**ES 20**  
**THE EARTH**  
**3 units**

*Intended for the non-specialist.*

This is an introductory course on geology with emphasis on Philippine geology. Topics include the origin of the earth and its relationship to the cosmos, rocks and minerals, volcanism, plate tectonics, groundwater, and background information on geologic energy resources.

**ES 21**  
**CLIMATE AND ECOSYSTEMS**  
**3 units**

**Pre-requisites:** ES 10, ES 12. ES 110, ES 111 recommended but not required

This course focuses on the linkages and feedbacks between climate, ecosystems and human activity. The course explores how anthropogenic climate change and other human-induced modifications of the earth system may affect ecosystem integrity, and what this means for devising adaptation and mitigation strategies.

**ES 90**  
**CURRENT ISSUES IN**  
**ENVIRONMENTAL SCIENCES**  
**1 unit**

*Intended for ES Majors.*

This is an elective and preparatory course on current environmental issues through a seminar series by resource persons. It is an introduction to the main themes of environmental science, such as air and water pollution as well as wildlife conservation.

**ES 100**  
**ENVIRONMENTAL**  
**MONITORING, LECTURE**  
**3 units**

This course integrates mathematical, biological, chemical, and physical principles needed to understand ecosystems, with emphasis on biotic and abiotic factors. Topics include the principles of environmental monitoring and problem of pollution. The course involves lectures, field work, and laboratory experiments on actual samples.

**ES 101**  
**ENVIRONMENTAL**  
**MONITORING,**  
**LABORATORY**  
**3 units**

**Pre-requisites:** MA 18A, MA 20.3A, MA 20.3B, STAT 105, ES 110, ES 111, CH 35, CH 36, PS 31

*The courses are taken in the summer of fifth year.*

This course integrates mathematical, biological, chemical, and physical principles needed to understand ecosystems, with emphasis on biotic and abiotic factors. Topics include the principles of environmental monitoring and problem of pollution. The course involves lectures, field work, and laboratory experiments on actual samples.

**ES 110**  
**ENVIRONMENTAL ECOLOGY,**  
**LECTURE**  
**3 units**

This course deals with the fundamental principles of ecology as they relate to various environmental issues. Emphasis is on the impacts of pollution and other stresses on the structure and function of ecosystems. Laboratory exercises provide hands-on experience in applying ecological principles to environmental problems.

**ES 111**  
**ENVIRONMENTAL ECOLOGY,**  
**LABORATORY**  
**2 units**

**Pre-requisites:** BI 101, BI 101.1

This course deals with the fundamental principles of ecology as they relate to various environmental issues. Emphasis is on the impacts of pollution and other stresses on the structure and function of ecosystems. Laboratory exercises provide hands-on experience in applying

ecological principles to environmental problems.

**ES 120**  
**ENERGY, TECHNOLOGY, AND THE ENVIRONMENT**

**3 units**

**Pre-requisites:** MA 18A, PS 31, CH 7, CH 8, ES 110, ES 111

This is a course on the principles and phenomena of the First and Second Laws of Thermodynamics and their application to questions of energy generation, utilization, and effects. Topics include the relationships between energy and energy-dependent technologies.

**ES 121**  
**INDUSTRY AND THE ENVIRONMENT**

**3 units**

**Pre-requisite:** Students must have completed their basic courses in science and mathematics.

*Designed for both science and non-science majors who have sufficient background in the basic sciences.*

This course discusses the environmental impact of industry and the ways various technologies mitigate its effects. Topics include industrial metabolism with a survey of industrial processes and their environmental impact, and case studies of technological solutions such as waste management and waste water processing.

**ES 125**  
**INTRODUCTION TO GEOGRAPHIC INFORMATION SYSTEMS**

**3 units**

**Pre-requisites:** ES 10, ES 12

This course provides an overview of the concepts, theories, and methodologies necessary for understanding and applying geographic information systems (GIS) to environmental concerns. It also gives an introduction on the use of the software Integrated

Land and Water Management System (ILWIS).

**ES 131**  
**INTRODUCTION TO COMPUTER MODELING AND SIMULATION, LECTURE**

**3 units**

**Pre-requisites:** MA 20.3B, ES 10, ES 12

*Pre-requisites may be waived subject to faculty approval.*

This course introduces the natural and human-system models as a predictive aid to planning, assessment, and management; and a tool for scientific inquiry. It involves a survey and run-through of simulation programs in the market and the general techniques in evaluating their accuracy and reliability.

**ES 132**  
**INTRODUCTION TO COMPUTER MODELING AND SIMULATION, LABORATORY**

**1 unit**

**Pre-requisites:** MA 20.3B, ES 10, ES 12

*Pre-requisites may be waived subject to faculty approval.*

This laboratory course is a companion to ES 131. It includes various hands-on exercises in using computer modelling programs which are used in planning, assessment, management, and other environmental applications.

**ES 140**  
**AIR AND WATER**

**3 units**

**Pre-requisites:** MA 20.3B, PS 31 CH 35, CH 36

This course deals with the physico-chemical properties of air and water as well as the pollution problems associated with them. Topics include air and water quality monitoring and methods of clean air and water resources preservation.

**ES 140.1**  
**FUNDAMENTALS OF AIR AND THE ATMOSPHERE**

**3 units**

**Pre-requisites:** PS 31, CH 7, CH 8

This course discusses the essential aspects and monitoring of atmospheric phenomena. Topics include the present technologies for sensing, modeling, and forecasting air quality and atmospheric events. The fundamental concepts of weather, radiation budgets, wind and ocean currents, biological inputs, and photochemical reactions are also discussed.

**ES 140.2**  
**FUNDAMENTALS OF WATER AND WATER POLLUTION**

**3 units**

**Pre-requisites:** MA 18A, PS 31, CH 35, CH 36

This course deals with the fundamental physico-chemical properties and different types of naturally-occurring sources of water. Topics include pollution problems; nature, types, origin, transport, reactions, effects, and fates of water pollutants; monitoring of water quality; and methods of preserving clean water resources.

**ES 142**  
**ENVIRONMENTAL CHEMISTRY**

**3 units**

**Pre-requisite:** CH 11

This is a course on the physical and chemical principles in understanding the behavior of chemical systems in the environment. Topics include a survey of the environmental chemistry of the elements, the various natural processes in the environment, and environmental issues.

**ES 145****INTRODUCTION TO  
GEOCHEMISTRY****3 units****Pre-requisites:** CH 35, CH 36  
**MA 18A**

This course deals with the applications of the principles of chemistry in the handling of geologic problems, including the mobility of the elements in the hydrogeologic cycle, distribution of elements in the rocks, soil degradation, and chemical weathering.

**ES 150****INTRODUCTION TO  
GEOPHYSICS****3 units****Pre-requisites:** MA 18A,  
MA 20.3A, MA 20.3B, PS 31,  
CH 11, CH 12

This course deals with the geological treatment of hard masses and their changes, with emphasis on the effects of the hydrologic cycle to the state of geological equilibrium of the tropical geologic cycle and the effects of tropical deforestation.

**ES 155****INTRODUCTION TO  
EARTH SCIENCES, LECTURE****3 units****Pre-requisites:** CH 7, CH 8,  
CH 11, CH 12, MA 18A

This course is a study of the earth's relationship to the cosmos, building materials of the earth, and fundamentals of the earth's internal and surface processes with emphasis on Philippine geology, resources, and hazards. Topics include metallic/non-metallic deposits and energy resources (geothermal, coal, and petroleum).

**ES 156****INTRODUCTION TO  
EARTH SCIENCES,  
LABORATORY****2 units****Pre-requisites:** CH 7, CH 8,  
CH 11, CH 12, MA 18A

This is a laboratory course taken concurrently with ES 155 that includes laboratory experimentation with emphasis on Philippine geology, field sampling, and observation trips to Philippine geologically important sites.

**ES 160****INTRODUCTION TO  
ENVIRONMENTAL  
POLLUTION****3 units****Pre-requisites:** CH 11, CH 12

This course deals with the general aspects of environmental pollution. Topics include the various types and sources of pollution, effects of pollutants on the environment, pollution control procedures, and current international and Philippine regulatory laws.

**ES 161****INTRODUCTION TO  
ENVIRONMENTAL  
POLLUTION****1 unit****Pre-requisites:** CH 11, CH 12

This is laboratory companion course to ES 160 that includes laboratory experiments, case studies of air, water, and soil pollutants, and field visits to applicable sites.

**ES 160.1****INTRODUCTION TO  
ENVIRONMENTAL  
POLLUTION: ORGANIC  
POLLUTANTS****3 units****Pre-requisites:** CH 35, CH 36

This course discusses environmental pollution with emphasis on organic pollutants. Topics include the sources,

chemical properties, transport, and reactions of organic pollutants in the environment; the associated toxicological effects and assessment of risks in toxicity; and various methods of monitoring and analysis of these pollutants.

**ES 165****INTRODUCTION TO  
ENVIRONMENTAL HEALTH  
AND SAFETY****3 units****Pre-requisites:** CH 11, CH 12

This course integrates the basic principles of ecology, toxicology, and epidemiology in understanding the impact of aquatic, atmospheric, and terrestrial pollution on human health and safety. Topics include the causes of pollution, mechanisms of toxicity, biological responses, risk assessment, and the establishment of environmental standards.

**ES 170****SEMINAR IN  
ENVIRONMENTAL POLICY  
AND LAW****3 units**

This course summarizes the environmental decision-making in the Philippines. Focus is on the interplay of the natural and social sciences with law in establishing norms and resolving environmental disputes. Topics include issues such as deforestation; air, water, waste, and marine pollution; biodiversity; and climate change.

**ES 171****SEMINAR ON THE  
ENVIRONMENT IN THE  
MEDIA****3 units**

This course focuses on how environmental issues are communicated in popular media; grounded in a practical understanding of the strengths and limits of scientific research.

How environmental issues are defined, framed, and communicated are also discussed, using the conceptual and theoretical frameworks of environmental communication.

**ES 176**

**ENVIRONMENTAL IMPACT ASSESSMENT**

**3 units**

*For fifth year students only.*

**Pre-requisite: Consent of the instructor based on assessment of courses taken previously.**

This integrative course studies the theoretical framework, methodology, and applications of Environmental Impact Assessment (EIA) in the Philippines. Topics include the rationale behind EIA and the impacts of development projects on the biophysical and sociocultural environments.

**ES 177**

**INTRODUCTION TO ENVIRONMENTAL MANAGEMENT**

**3 units**

This integrative course deals with basic concepts, principles, and tools in Environmental Planning and Management, discussing the dynamics between business, environment, and current issues in environmental management. Topics include sustainable development planning; management and allocation of natural resources; conflict resolution and negotiations; and pollution management.

**ES 177.1**

**INTRODUCTION TO ENVIRONMENTAL MANAGEMENT FOR SUSTAINABILITY**

**3 units**

**Pre-requisites: ES 10, ES 12**

This course covers the basic concepts, principles and tools in Environmental Management. It begins with an overview of basic

ecological principles and development models that serve as the rationale and foundation for environmental management, then deals with environmental management in the business/organization context.

**ES 180**

**SPECIAL TOPICS IN ENVIRONMENTAL SCIENCE**

**3 units**

**Pre-requisites: MA 18A, MA 20.3A, MA 20.3B, STAT 105, BI 120, BI 120.1, CH 35, CH 36, PS 31**

*For fourth year ES students.*

This is a lecture/seminar course on advanced topics in Environmental Science subjects.

**ES 180.1**

**SPECIAL TOPICS IN ENVIRONMENTAL SCIENCE: ENVIRONMENTAL ECONOMICS**

**3 units**

**Pre-requisite: EM 240**

This course is a discussion on economic models consistent with environmental principles. It integrates concepts and principles from various fields such as Ecology, Sociology, and Law to provide a framework for the sustainable development of the economy and the environment.

**ES 180.2**

**SPECIAL TOPICS IN ENVIRONMENTAL SCIENCE: WASTE MANAGEMENT**

**3 units**

**Pre-requisite: EM 240**

This course deals with the principles of waste management. Topics include the types, treatment, and disposal of wastes and strategies of waste management (reduction, reusing and recycling). It also considers various options for waste management in the Philippines from the context of industry and government.

**ES 190**

**SENIOR THESIS I, LECTURE AND LABORATORY**

**3 units**  
*Taken during the first semester of fifth year.*

This course is a synthesis and application of all theories learned to a specific environmental topic. It covers elements of research and thesis writing as well as preliminary laboratory/field work.

**ES 191**

**SENIOR THESIS II, LECTURE AND LABORATORY**

**3 units**  
*Taken during the second semester of fifth year.*

This course is a synthesis and application of theories to a specific environmental topic. The research output generates additional information on the Philippine environment. It includes all aspects of thesis work from preliminary laboratory/field work, to thesis writing, and to the oral defense.

Room A118 Science Education Complex  
Direct Line/Fax: (+632) 426-1035  
(632) 426-6001 loc. 5618  
nmarquez@ateneo.edu

# HEALTH SCIENCES

**Norman Dennis E. Marquez, MD**  
*Director*

**Faculty**  
*Assistant Professor*  
Genejane M. Adarlo, MD

**Instructor**  
Norman Dennis E. Marquez, MD

**Lecturers**  
Miriam N. Agno, MD  
Elinor Gumila-Bartolome, MD  
Ma. Henrietta Teresa O. dela Cruz, MD  
Aguedo Troy D. Gepte IV, MD  
Joan Mae G. Perez-Rifareal, MD  
Lua Pottier  
John Q. Wong, MD  
Brian Karlo W. Zuñiga

The Health Sciences Program offers the **Bachelor of Science in Health Sciences**. It aims to form professionals with broad and deep understanding of health, from its foundation in the sciences to its relevance in development and the effectiveness in its management.

The curriculum provides a multi-disciplinary approach that allows the students to engage the health sector from the perspective of clients, service-providers, policy-makers, academics, and other shareholders. The thesis program showcases the students' capacity for assessment and intervention as they participate in the different health system environments. The faculty facilitates the integration of the academic, psychological, social, and spiritual formation through a practicum program that revolves around five themes:

- The health professional and the community
- The health professional as scientist and investigator
- The health professional as administrator and manager
- The health professional as agent of change
- The health professional as a changed agent.

In collaboration with the Development Studies Program, students have the strategic option to take a **Minor in Health and Development** within the four-year curriculum, particularly those pursuing a career in public health and development initiatives.



## BACHELOR OF SCIENCE IN HEALTH SCIENCES

This program is an honor's degree designed for future health professionals and physicians aspiring to continue their training in medical education, particularly at the Ateneo School of Medicine and Public Health (ASMPH). The Core Curriculum provides a foundation for using the multi-disciplinary approach in the study of health while relevant course offerings in Social Sciences and Management further deepen this approach. The courses have been arranged in a sequential manner to enable the students to acquire the knowledge, skills, attitudes, and values necessary for them to become outstanding health care professionals, dynamic managers, and decisive social catalysts.

The Health Sciences Program offers experiential learning to its students through the Scholarly Work Series, the Health Professional Series, and its various course offerings.

The Bachelor of Science in Health Sciences program is designed in such a way that graduates who decide not to become a physician may still pursue a career in the health sector.

### FIRST YEAR

<u>First Semester</u>		<u>Units</u>	<u>Second Semester</u>		<u>Units</u>
EN 11	Communication in English 1	3	EN 12	Communication in English II	3
LIT 13	Introduction to Fiction	3	LIT 14	Introduction to Poetry and Drama	3
FIL 11	Sining ng Pakikipagtalastasan sa Filipino I	3	FIL 12	Sining ng Pakikipagtalastasan sa Filipino II	3
MA 18A	Principles of Modern Mathematics I	3	MA 20.3A	Applied Calculus for Life Sciences I	3
CH 7	General Chemistry I, Lecture	3	CH 11	General Chemistry II, Lecture	3
CH 8	General Chemistry I, Laboratory	2	CH 12	General Chemistry II, Laboratory	2
PE 1	Physical Education	(2)	PE 2	Physical Education	(2)
INTAC 1	Introduction to Ateneo Culture and Traditions	(0)	INTAC 2	Introduction to Ateneo Culture and Traditions	(0)
<i>Total:</i>		<i>17</i>	<i>Total:</i>		<i>17</i>

### SECOND YEAR

<u>Summer</u>		<u>Units</u>
FIL 14	Panitikan ng Pilipinas	3
PSY 101	General Psychology	3
<i>Total:</i>		<i>6</i>

<u>First Semester</u>		<u>Units</u>	<u>Second Semester</u>		<u>Units</u>
TH 121	An Introduction to Doing a Catholic Theology	3	BI 140	Cell and Molecular Biology, Lecture	2
HI 16/HI 18	Asian History/Western History	3	BI 140.1	Cell and Molecular Biology, Laboratory	1
SA 21	Introduction to Sociology and Anthropology	3	EC 102	Basic Economics, Agrarian Reform and Taxation	3
BI 100	General Biology I, Lecture	3	FLC	Foreign Language and Culture	3
BI 100.1	General Biology I, Laboratory	2	HI 165	Rizal and the Emergence of the Philippine Nation	3
CH 21	Survey of Organic Chemistry, Lecture	3	HSC 191.1	The Health Professional and the Community	1
CH 22.2	Survey of Organic Chemistry, Laboratory	2	LS 13	Principles of Management for the Service Sector	3
PE 3	Physical Education	(2)	SA 100/	Basic Statistics for the Social Sciences/	
NSTP 1	National Service Training Program	(3)	PSY 102.1	Fundamental Statistics	3
<i>Total:</i>		<i>19</i>	PE 4	Physical Education	(2)
			NSTP 2	National Service Training Program	(3)
			<i>Total:</i>		<i>19</i>

### THIRD YEAR

<u>Summer</u>		<u>Units</u>
CH 151	Biochemistry, Lecture	3
ES 10	Introduction to Environmental Sciences, Lec	3
<i>Total:</i>		<i>6</i>

<u>First Semester</u>		<u>Units</u>	<u>Second Semester</u>		<u>Units</u>
ACC 111	Resource Management	3	PH 102	Philosophy of the Human Person II	3
HSC 55	Introduction to Epidemiology	3	TH 131	Marriage, Family Life and Human Sexuality in a Catholic Perspective	3
PH 101	Philosophy of the Human Person I	3	CS 187.1	Applications in Medicine and Public Health: Introduction to Health Informatics	3
HI 166	Philippine History	3	HSC 191.2	The Health Professional as Scientist/Investigator	1
PS 11	General Physics 1 for the Life Sciences, Lecture	3	HSC 197.1	Scholarly Work 1A: Defining the Problem	2
PS 11.1	General Physics 1 for the Life Sciences, Laboratory	1	POS 100	Politics and Governance	3
SA 112	Health, Culture, and Society	3	PS 12	General Physics 2 for the Life Sciences, Lecture	3
DS 175.80	Special Topics in Contemporary Development Issues: The Political Economy of Health and Development	3	PS 12.1	General Physics 2 for the Life Sciences, Laboratory	1
<i>Total:</i>		<i>22</i>	SCI 10	Science and Society	3
			<i>Total:</i>		<i>22</i>



## FOURTH YEAR

<u>Summer</u>		<u>Units</u>			
HSC 191.3	The Health Professional as Administrator	1			
HSC 197.2	Scholarly Work 1B: Collaboration and Data Collection	2			
HSC/SCI ELECTIVE		3			
<i>Total:</i>		6			
<u>First Semester</u>		<u>Units</u>	<u>Second Semester</u>		<u>Units</u>
PH 103	Philosophy of Religion	3	PH 104	Foundations of Moral Value	3
TH 141	A Theology of the Catholic Social Vision	3	TH 151	The Catholic Commitment of Today's Filipino: A Synthesis	3
HSC 192.1	The Health Professional as Agent of Change	1	HSC 192.2	The Health Professional as a Changed Agent	1
HSC 198.1	Scholarly Work 2A: Data Analysis and Synthesis	2	HSC 193	Health Seminar	1
HSC/SCI ELECTIVE		2	HSC 198.2	Scholarly Work 2B: Writing, Presentation, Evaluation, Publication	1
FREE ELECTIVE		3	HSC/SCI ELECTIVE		2
<i>Total:</i>		14	FREE ELECTIVE		3
			<i>Total:</i>		14

Total Number of Academic Units: 162  
Curriculum Effective Freshman Batch SY 2008-2009

## COURSE OFFERINGS

### **HSC 15 HUMAN GENETICS 3 units**

#### **Pre-requisites: General Biology, Molecular Biology**

This course deals with genetic principles and their application to human heredity, with reference to the biochemical and molecular basis of disease. The course includes technological advances in human genetics as they pertain to medical practice, including techniques in gene mapping, cloning, transfer, and expression.

### **HSC 35 INTRODUCTION TO HUMAN BIOCHEMISTRY 3 units**

This is a course on biochemistry in the context of health and diseases. Topics include membranes and signaling systems, bioenergetics and regulation of metabolism, integration of the major metabolic pathways and human nutrition, and the molecular basis of human genetic disease.

### **HSC 35.1 INTRODUCTION TO HUMAN BIOCHEMISTRY, LABORATORY 2 units**

#### **Pre-requisites: General Biology, General Chemistry, Molecular Biology**

This is a course on biochemistry in the context of health and diseases. Topics include membranes and signaling systems, bioenergetics and regulation of metabolism, integration of the major metabolic pathways and human nutrition, and the molecular basis of human genetic disease.

### **HSC 45 INTRODUCTION TO MEDICAL INSTRUMENTATION, LECTURE 3 units**

This is a course on medical instrumentation. The lecture course covers the theory and concepts of basic electronic instrumentation and medical instrumentation. The laboratory course covers the description and application of different medical instruments.

### **HSC 45.1 INTRODUCTION TO MEDICAL INSTRUMENTATION, LABORATORY 2 units**

#### **Pre-requisites: General Biology, General Chemistry, General Physics**

This is a course on medical instrumentation. The lecture course covers the theory and concepts of basic electronic instrumentation and medical instrumentation. The laboratory course covers the description and application of different medical instruments.

### **HSC 55 INTRODUCTION TO EPIDEMIOLOGY 3 units**

#### **Pre-requisite: SA 100 or PSY 102.1**

This course is an introduction to the basic principles of epidemiology as a basis for understanding the distribution and determinants of health variables. The course provides the setting for basic research and applied methods using factors related to health.

**HSC 81  
HUMAN LIFE CYCLE**

**3 units**

This course studies biological, psychological, and social development through the human lifespan. Topics include the various periods of human growth and development and relevant influential theories; as well as human behavior and adaptation. The course attempts to contextualize human development in the Filipino culture.

**HSC 82  
INTRODUCTION TO HUMAN ANATOMY**

**3 units**

**Pre-requisite: General Biology or General Zoology**

This course is a systemic approach to the human body. The essential anatomic features of organ systems are discussed in the context of health.

**HSC 83  
INTRODUCTION TO HUMAN PHYSIOLOGY**

**3 units**

**Pre-requisites: General Biology or General Zoology, Molecular Biology**  
*A background in Biochemistry, Physics, and Human Anatomy is preferred.*

This course is a discussion on the functional basis of human health and diseases. The concepts of systems organization and integration are discussed in the context of homeostasis. The anatomic features of organ systems serve as the backdrop of presentations.

**HSC 83.01  
INTRODUCTION TO HUMAN PHYSIOLOGY: REGULATION AND CONTROL**

**2 units**

**Pre-requisites: General Biology or its equivalent, General Chemistry or its equivalent**

The course presents a survey of the regulatory and control functions of the human body, particularly of the nervous and endocrine systems. Through student-centered learning approaches, it offers opportunities to evaluate, apply, and synthesize current physiologic evidences to clinical challenges and public health issues.

**HSC 83.02  
INTRODUCTION TO HUMAN PHYSIOLOGY: METABOLISM, RESPIRATION, AND CIRCULATION**

**2 units**

**Pre-requisites: General Biology or its equivalent, General Chemistry or its equivalent**

The course covers the metabolic, respiratory, and circulatory functions of the human body and its interactions in clinical conditions. It provides student-centered opportunities to analyze, evaluate, apply, and synthesize evidences on physiologic mechanisms and its implications on clinical and public health settings.

**HSC 85  
FUNDAMENTALS OF NUTRITION**

**3 units**

**Pre-requisites: General Biology, General Chemistry**

This is a course on nutrition science that covers the biochemistry and the physiologic values of food. Topics include the relationship between food and the well-being of the person; public health concerns in food production, processing, and handling; and diseases and disorders associated with malnutrition.

**HSC 85.10  
NUTRITION FOR SPORTS AND EXERCISE**

**3 units**

This is a basic course in nutrition science that covers the biochemistry and the physiologic values of food as well as basic biometrics. Particularly, the course explores the relationship between nutrients and water and the performance of physical activities.

**HSC 90  
INTRODUCTION TO PHARMACOLOGY**

**3 units**

**Pre-requisites: General Biology, General Chemistry**

*A background in Molecular Biology is preferred.*

This course is an introduction to the concepts of pharmacokinetics and pharmacodynamics. Specific mechanisms of representative drug groups are discussed to illustrate the principles of drug therapy in the context of health and diseases.

**HSC 120  
INTRODUCTION TO MEDICAL MICROBIOLOGY, LECTURE**

**3 units**

This course is an introduction to the principles of microbiology in relation to health. The groups of bacteria, viruses, and fungi more commonly pathogenic to humans are discussed, focusing on their characteristic structures, behavior, and microbiologic properties.

**HSC 120.1  
INTRODUCTION TO MEDICAL MICROBIOLOGY, LABORATORY**

**2 units**

**Pre-requisites: General Biology, General Chemistry**

*A background in Molecular Biology is preferred.*

This course is an introduction to the principles of microbiology in relation to health. The groups of bacteria, viruses, and fungi more commonly pathogenic to humans are discussed, focusing on their

characteristic structures, behavior, and microbiologic properties.

**HSC 191-195 SERIES  
SEMINARS IN HEALTH  
SCIENCE**

**3 units**

**Pre-requisites:** All of the major subjects and at least one of the health science cognates.

This course exposes students to varied updates and discussions related to the multiple disciplines in health sciences. The seminars encourage students to become familiar with the current issues, problems, and developments in the fields of health science as possible areas for involvement or further research.

**HSC 191  
PRACTICUM: THE ROLE OF  
THE HEALTH PROFESSIONAL  
IN SOCIETY 1**

**3 units**

**Pre-requisites:** General Psychology, Political Economy of Health, Principles of Management in the Health Sector, Health and Culture, Introduction to Epidemiology, Statistics, at least 10 units of basic sciences, or upon consultation with the Practicum Coordinator.

This course provides experiential learning opportunities in different sectors concerning health services delivery. Through 100 hours of community insertion and complimentary colloquia, workshops, and processing of experiences, students appreciate the multi-disciplinary nature of health studies and the need for multi-sector collaboration in addressing health issues.

**HSC 192  
PRACTICUM: THE ROLE OF  
THE HEALTH PROFESSIONAL  
IN SOCIETY 2**

**2 units**

**Pre-requisites:** General Psychology, Political Economy of Health, Principles of Management in the Health Sector, Health and Culture, Introduction to Epidemiology, Statistics, at least 10 units of basic sciences, or upon consultation with the Practicum Coordinator.

This course provides experiential learning opportunities in different sectors of health services delivery. Through 100 hours of community insertion and complimentary colloquia, workshops, and processing of experiences, students appreciate the multi-disciplinary nature of health studies and the need for multi-sector collaboration in addressing health issues.

**HSC 191.1  
THE HEALTH PROFESSIONAL  
AND THE COMMUNITY**

**1 unit**

This is an introductory practicum course on the traditional roles of the health professional/physician in society. Students spend time with health professionals in different settings (community-based clinics, hospital-based clinics, government health centers, specialized clinics) to appreciate the range of the health professional's clinical work.

**HSC 191.2  
THE HEALTH PROFESSIONAL  
AS SCIENTIST/  
INVESTIGATOR**

**1 unit**

This is a practicum course on the different tools and protocols in health research. The practicum covers quantitative and qualitative scientific methodologies, including workshops in observation and

interview techniques and technical writing. Students visit research facilities and interview research groups.

**HSC 191.3  
THE HEALTH PROFESSIONAL  
AS ADMINISTRATOR**

**1 unit**

This is a course on the administrative responsibilities assumed by health professionals. Students gain a deeper and broader understanding of the components, processes, and outcomes of the health system. Students visit public and private hospitals and other health services facilities.

**HSC 192.1  
THE HEALTH PROFESSIONAL  
AS AGENT OF CHANGE**

**1 unit**

This course brings students closer to public health issues as they are exposed to health advocacy groups and development work. Students appreciate the multi-disciplinary and interdisciplinary approaches to addressing health issues. Health professionals in government, NGOs, professional organizations, and academia provide models for change.

**HSC 192.2  
THE HEALTH PROFESSIONAL  
AS A CHANGED AGENT**

**1 unit**

This integrative course explores how health professionals are also transformed by their work and the community they serve. The course looks into more personal formation; students get to appreciate their own passion for academic excellence, service, and nation-building in the context of their faith.

**HSC 197  
SENIOR THESIS 1**

**4 units**

This course challenges students to engage the community through

multi-disciplinary service-learning initiatives addressing a specific health and health service concern in the community. The scholarly work becomes the venue for measurable service in partnership with stakeholders in the community.

**HSC 197.1**  
**SCHOLARLY WORK 1A:**  
**DEFINING THE PROBLEM**  
**2 units**

This course challenges students to engage the community through multi-disciplinary service-learning initiatives addressing a specific health and health service concern in the community. The scholarly work becomes the venue for measurable service in partnership with stakeholders in the community.

**HSC 197.2**  
**SCHOLARLY WORK 1B:**  
**COLLABORATION AND**  
**DATA COLLECTION**  
**2 units**

This course challenges students to engage the community through multi-disciplinary service-learning initiatives addressing a specific health and health service concern in the community. The scholarly work becomes the venue for measurable service in partnership with stakeholders in the community.

**HSC 198**  
**SENIOR THESIS 2**  
**3 units**

This course challenges students to engage the community through multi-disciplinary service-learning initiatives addressing a specific health and health service concern in the community. The scholarly work becomes the venue for measurable service in partnership with stakeholders in the community.

**HSC 198.1**  
**SCHOLARLY WORK 2A: DATA**  
**ANALYSIS AND SYNTHESIS**  
**2 units**

This course challenges students to engage the community through multi-disciplinary service-learning initiatives addressing a specific health and health service concern in the community. The scholarly work becomes the venue for measurable service in partnership with stakeholders in the community.

**HSC 198.2**  
**SCHOLARLY WORK 2B:**  
**WRITING, PRESENTATION,**  
**EVALUATION, PUBLICATION**  
**1 unit**

**Pre-requisite: All of the major courses and at least two health science cognates.**

This course challenges students to engage the community through multi-disciplinary service-learning initiatives addressing a specific health and health service concern in the community. The scholarly work becomes the venue for measurable service in partnership with stakeholders in the community.

# INFORMATION SYSTEMS AND COMPUTER SCIENCE

Room 208 Faura Hall  
(632) 426-6001 loc. 5660  
fax: (632) 426-6071  
discs.sose@ateneo.edu  
<http://discs.ateneo.edu>

**Marlene M. De Leon**  
*Chair*

**Faculty**  
***Professors***

Ma. Mercedes T. Rodrigo  
John Paul C. Vergara

***Associate Professors***

Ma. Regina Justina E. Estuar  
Proceso L. Fernandez, Jr.  
Kardi Teknomo

***Assistant Professors***

Carlos G. Cenzon, Jr., S.J.  
Andrei D. Coronel  
Marlene M. de Leon  
Sandra Francesca A. Lovenia  
Reinabelle C. Reyes

***Instructors***

Guillermo Paolo M. Agloro, Jr.  
Jose Alfredo A. de Vera III  
John Boaz T. Lee  
Ariel A. Maguyon

***Assistant Instructors***

Nicko R. Caluya  
Paolo Antonio G. Gonzales

***Lecturers***

Raphael B. Alampay • Antonn Benjamin D. Barot •  
Clarence P. Borrromeo • Walfrido David A. Diy •  
Thomas T. Dy • Vernon D. Gutierrez • Jeffrey J.  
Jongko • Pablo R. Manalastas, Jr. • Alberto H.  
Medalla • Andrei M. Navarro • Maria Patricia S.  
Ramos • Romel John B. Santos • Gerard Anthony A.  
Sanvictores II • John Haley Lathymerr N. Say •  
Jessica O. Sugay • Anna Lorraine V. Uy • William  
Emmanuel S. Yu

Information technology shall determine much of the 21<sup>st</sup> century creating an ever-increasing need for competent and highly-trained computer professionals.

In response to this need, the Department of Information Systems and Computer Science offers undergraduate programs in Computer Science and Management Information Systems. The programs aim to produce professionals who not only keep abreast of the rapid development in the computing field, but are cognizant of the appropriate use of technology in a country like the Philippines.

## BACHELOR OF SCIENCE IN COMPUTER SCIENCE

The BS in Computer Science Program (BS CS) provides a rigorous foundation in both the theoretical and practical aspects of computing. Core computer science courses provide the students with an intensive background in writing complex software systems and in the design and interconnection of computers. Electives are available from various areas in computer science – including multimedia, MIS and software engineering, networks and wireless systems, web-based systems, computer engineering, and computational science. These are designed so that the students can either take courses from several areas or specialize in a particular area.

Students are provided extensive access to state-of-the-art facilities, including Windows and Linux-based PCs and servers with high speed connectivity to the Internet, a campus-wide wireless network that allows access to the Internet from laptops and PDAs, and the latest in software from Microsoft, Sun (Java), Oracle, Adobe, Macromedia, and other leading software companies.

Throughout the four years of study, the students are constantly expected to innovate and to contribute to technology. Thus, graduates of the program can expect to be well prepared for graduate studies abroad or to become the systems designers and network administrators of software development firms and MIS/ICT departments of corporations.

### FIRST YEAR

<u>First Semester</u>		<u>Units</u>	<u>Second Semester</u>		<u>Units</u>
EN 11	Communication in English I	3	EN 12	Communication in English II	3
LIT 13	Introduction to Fiction	3	LIT 14	Introduction to Poetry and Drama	3
FIL 11	Sining ng Pakikipagtalastasan sa Filipino I	3	FIL 12	Sining ng Pakikipagtalastasan sa Filipino II	3
MA 18A	Principles of Modern Mathematics I	3	MA 20.2	Calculus for Computer Science	6
MA 18B	Principles of Modern Mathematics II	3	CS 21B	Introduction to Computing II	3
CS 21A	Introduction to Computing I	3	PE 2	Physical Education	(2)
PE 1	Physical Education	(2)	INTAC2	Introduction to Ateneo Culture and Traditions	(0)
INTAC1	Introduction to Ateneo Culture and Traditions	(0)	<i>Total: 18</i>		
		<i>Total: 18</i>			

### SECOND YEAR

<u>Summer</u>		<u>Units</u>
FLC	Foreign Language and Culture	3
PSY 101	General Psychology	3
		<i>Total: 6</i>

<u>First Semester</u>		<u>Units</u>	<u>Second Semester</u>		<u>Units</u>
AMC 124	Math for Computer Science I	3	AMC 125	Math for Computer Science II	3
FIL 14	Panitikan ng Pilipinas	3	HI 16/HI 18	Asian History/Western History	3
TH 121	An Introduction to Doing a Catholic Theology	3	SCI 10	Science and Society	3
PS 21	College Physics I, Lecture	3	CS 122	Database Systems	3
PS 21.1	College Physics I, Laboratory	2	PS 140	Electronics	5
CS 110	Data Structures and Algorithms	3	PE 4	Physical Education	(2)
PE 3	Physical Education	(2)	NSTP 2	National Service Training Program	(3)
NSTP 1	National Service Training Program	(3)	<i>Total: 17</i>		
		<i>Total: 17</i>			

### THIRD YEAR

<u>Summer</u>		<u>Units</u>
SA 21	Introduction to Sociology and Anthropology	3
FREE ELECTIVE		3
		<i>Total: 6</i>

<u>First Semester</u>		<u>Units</u>	<u>Second Semester</u>		<u>Units</u>
PH 101	Philosophy of the Human Person I	3	PH 102	Philosophy of the Human Person II	3
HI 165	Rizal and the Emergence of the Philippine Nation	3	CS 124	Object Oriented Software Design and Implementation	3

CS 123	Introduction to Software Engineering	3	TH 131	Marriage, Family Life and Human Sexuality	
CS 152A	Computer Organization I	3		in a Catholic Perspective	3
CS 152B	Computer Organization II	3	CS 162A	Operating Systems	3
CS ELECTIVE		3	CS 162B	Systems Programming	3
			CS ELECTIVE		3
		Total: 18			Total: 18

#### FOURTH YEAR

<u>Summer</u>		<u>Units</u>			
CS 197A	Integrative Project	1			
CS 199	Practicum	3			
		<b>Total:</b>	4		

<u>First Semester</u>	<u>Units</u>	<u>Second Semester</u>	<u>Units</u>
PH 103/ Philosophy of Religion/		PH 103/ Philosophy of Religion/	
PH 104 Foundations of Moral Value	3	PH 104 Foundations of Moral Value	3
TH 141/ A Theology of the Catholic Social Vision/		TH 141/ A Theology of the Catholic Social Vision/	
TH 151 The Catholic Commitment of Today's Filipino: A Synthesis	3	TH 151 The Catholic Commitment of Today's Filipino: A Synthesis	3
HI 166 Philippine History	3	POS 100 Politics and Governance	3
CS 154 Computer Networks and Data Communications	3	CS 197C Integrative Project	1
CS 197B Integrative Project	1	CS 130 Theory of Computation	3
EC 102 Basic Economics, Agrarian Reform and Taxation	3	CS 112 Structure of Programming Languages	3
CS ELECTIVE	3	FREE ELECTIVE	3
		<b>Total:</b>	19

Total Number of Academic Units: 160  
Curriculum Effective Freshman Batch SY 2008 – 2009

## BACHELOR OF SCIENCE IN COMPUTER SCIENCE/ MASTER OF SCIENCE IN COMPUTER SCIENCE

The program combines our existing BS Computer Science with our graduate program MS Computer Science. No revisions in either curriculum have been made and there are no credit overlaps between two degrees. The undergraduate degree will be awarded at the end of the student's fourth year, while the graduate degree will be awarded at the end of the fifth year. In essence, the undergraduate students under the BS-MS program will take graduate courses during their senior year, so that a student can realistically complete his/her master's degree after an additional one year and two summers. Some rearrangements have been made on the scheduling of courses during the fourth year to accommodate graduate courses, in particular.

#### FIRST YEAR

<u>First Semester</u>	<u>Units</u>	<u>Second Semester</u>	<u>Units</u>
EN 11 Communication in English I	3	EN 12 Communication in English II	3
LIT 13 Introduction to Fiction	3	LIT 14 Introduction to Poetry and Drama	3
FIL 11 Sining ng Pakikipagtalastasan sa Filipino I	3	FIL 12 Sining ng Pakikipagtalastasan sa Filipino II	3
MA 18A Principles of Modern Mathematics I	3	MA 20.2 Calculus for Computer Science	6
MA 18B Principles of Modern Mathematics II	3	CS 21B Introduction to Computing II	3
CS 21A Introduction to Computing I	3	PE 2 Physical Education	(2)
PE 1 Physical Education	(2)	INTAC 2 Introduction to Ateneo Culture and Traditions	(0)
INTAC 1 Introduction to Ateneo Culture and Traditions	(0)		
		<b>Total:</b>	18

#### SECOND YEAR

<u>Summer</u>	<u>Units</u>		
FLC Foreign Language and Culture	3		
PSY 101 General Psychology	3		
		<b>Total:</b>	6

<u>First Semester</u>	<u>Units</u>	<u>Second Semester</u>	<u>Units</u>
AMC 124 Math for Computer Science I	3	AMC 125 Math for Computer Science II	3
FIL 14 Panitikan ng Pilipinas	3	HI 16/ HI 18 Asian History/Western History	3
TH 121 An Introduction to Doing a Catholic Theology	3	SCI 10 Science and Society	3
PS 21 College Physics I, Lecture	3	CS 122 Database Systems	3
PS 21.1 College Physics I, Laboratory	2	PS 140 Electronics	5



CS 110	Data Structures and Algorithms	3	PE 4	Physical Education	(2)
PE 3	Physical Education	(2)	NSTP 2	National Service Training Program	(3)
NSTP 1	National Service Training Program	(3)			
		Total:			17

### THIRD YEAR

<u>Summer</u>	<u>Units</u>
SA 21 Introduction to Sociology and Anthropology	3
FREE ELECTIVE	3
	<i>Total:</i> 6

<u>First Semester</u>		<u>Units</u>	<u>Second Semester</u>		<u>Units</u>
PH 101	Philosophy of the Human Person I	3	PH 102	Philosophy of the Human Person II	3
HI 165	Rizal and the Emergence of the Philippine Nation	3	CS 124	Object Oriented Software Design and Implementation	3
CS 123	Introduction to Software Engineering	3	TH 131	Marriage, Family Life and Human Sexuality in a Catholic Perspective	3
CS 152A	Computer Organization I	3	CS 162A	Operating Systems	3
CS 152B	Computer Organization II	3	CS 162B	Systems Programming	3
CS ELECTIVE		3	CS ELECTIVE		3
		Total: 18			Total: 18

### FOURTH YEAR

<u>Summer</u>	<u>Units</u>
CS 197A Integrative Project	1
CS 199.1 Practicum	3
<i>Total:</i>	4

<u>First Semester</u>		<u>Units</u>	<u>Second Semester</u>		<u>Units</u>
PH 103/	Philosophy of Religion/		PH 103/	Philosophy of Religion/	
PH 104	Foundations of Moral Value	3	PH 104	Foundations of Moral Value	3
TH 141/	A Theology of the Catholic Social Vision/		TH 141/	A Theology of the Catholic Social Vision/	
TH 151	The Catholic Commitment of Today's		TH 151	The Catholic Commitment of Today's	
	Filipino: A Synthesis	3		Filipino: A Synthesis	3
HI 166	Philippine History	3	POS 100	Politics and Governance	3
EC 102	Basic Economics, Agrarian Reform and Taxation	3	CS 197C	Integrative Project	1
CS 154	Computer Networks and Data Communications	3	CS 112	Structure of Programming Languages	3
CS 197B	Integrative Project	1	CS 130	Theory of Computation	3
CS ELECTIVE		3	FREE ELECTIVE		3
CS 2XX	Additional Master's Subject	3			
		Total: 22			Total: 19

### FIFTH YEAR

<u>Summer</u>		<u>Units</u>
CS 290	Methods of Research (CS Required Elective)	3
CS 2XX	Additional Master's Subject	3
CS 2XX	Additional Master's Subject	3
		<i>Total:</i> 9

<u>First Semester</u>		<u>Units</u>	<u>Second Semester</u>		<u>Units</u>
CS 240	Advanced Data Structures and Algorithms	3	CS 242	Theory of Automata and Formal Languages	3
CS 280	Programming Languages and Paradigms	3	CS 255	Computer Architecture and Operating Systems	3
CS 2XX	Additional Master's Subject	3	CS 300A*	Thesis Writing I	3
CS 2XX	Additional Master's Subject	3	CS 300B*	Thesis Writing II	3
		<i>Total:</i> 12			<i>Total:</i> 12

\*6 units of the thesis are credited after the student passes the oral defense and submits the final revised copy of the thesis

Total Number of Undergraduate Academic Units: 160

Total Number of Graduate Academic Units: 36

Total Number of Academic Units: 196

Curriculum Effective Freshman Batch SY 2012-2013

## BACHELOR OF SCIENCE IN MANAGEMENT INFORMATION SYSTEMS

The program is a joint offering of the Department of Information Systems and Computer Science and the Department of Quantitative Management and Information Technology. It is designed to produce professionals who can harness information technology to meet business objectives. Students in this program enroll in computer science courses, management engineering courses, and core MIS courses. The program promotes MIS as a field and as a career, discusses the tools necessary for the profession, and provides in-depth analyses of the issues surrounding MIS operations.

BS MIS caters to students who are interested in the application of computers to business organizations and to students who wish to pursue a management course with extensive exposure to computing. Graduates from the program find immediate employment as system analysts, project managers, applications programmers, and information technology support personnel in local as well as in multinational corporations.

### FIRST YEAR

<u>First Semester</u>		<u>Units</u>	<u>Second Semester</u>		<u>Units</u>
EN 11	Communication in English I	3	EN 12	Communication in English II	3
LIT 13	Introduction to Fiction	3	LIT 14	Introduction to Poetry and Drama	3
FIL 11	Sining ng Pakikipagtalastasan sa Filipino I	3	FIL 12	Sining ng Pakikipagtalastasan sa Filipino II	3
MA 11	Modern Mathematics I	3	MA 19/20	Calculus for Economists	6
NATSCI 1A	Natural Science, Lecture	3	MIS 101	Introduction to Management Information Systems	3
NATSCI 1B	Natural Science, Laboratory	1	PE 2	Physical Education	(2)
PE 1	Physical Education	(2)	INTAC 2	Introduction to Ateneo Culture and Traditions	(0)
INTAC 1	Introduction to Ateneo Culture and Traditions	(0)	<i>Total: 18</i>		
		<i>Total: 16</i>			

### SECOND YEAR

<u>Summer</u>		<u>Units</u>
NATSCI 2A	Natural Science, Lecture	3
NATSCI 2B	Natural Science, Laboratory	1
SA 21	Introduction to Sociology and Anthropology	3
		<i>Total: 7</i>

<u>First Semester</u>		<u>Units</u>	<u>Second Semester</u>		<u>Units</u>
HI 16/HI 18	Asian History/Western History	3	FLC	Foreign Language and Culture	3
FIL 14	Panitikan ng Pilipinas	3	POS 100	Politics and Governance	3
SCI 10	Science and Society	3	TH 121	An Introduction to Doing a Catholic Theology	3
CS 21A	Introduction to Computing I	3	ACC 15	Fundamentals of Accounting	3
LS 11	Principles of Management	3	CS 105	Theory of Algorithms	3
PSY 101	General Psychology	3	EC 102	Basic Economics, Agrarian Reform and Taxation	3
PE 3	Physical Education	(2)	PE 4	Physical Education	(2)
NSTP 1	National Service Training Program	(3)	NSTP 2	National Service Training Program	(3)
		<i>Total: 18</i>			<i>Total: 18</i>

### THIRD YEAR

<u>Summer</u>		<u>Units</u>
MIS 21	Introduction to Applications Development	3
STAT 107	Introduction to Statistical Analysis	3
		<i>Total: 6</i>

<u>First Semester</u>		<u>Units</u>	<u>Second Semester</u>		<u>Units</u>
PH 101	Philosophy of the Human Person I	3	PH 102	Philosophy of the Human Person II	3
HI 165	Rizal and the Emergence of the Philippine Nation	3	TH 131	Marriage, Family Life and Human Sexuality in a Catholic Perspective	3
MIS 121	System Analysis and Design	3	CS 161	Operating Systems	3
CS 150	Computer Architecture	3	MIS 122	Database Systems Implementation	3
MULTIMEDIA ELECTIVE		3	MAJOR ELECTIVE		3
FREE ELECTIVE		3	MGT ELECTIVE		3
		<i>Total: 18</i>			<i>Total: 18</i>

### FOURTH YEAR

<u>Summer</u>		<u>Units</u>
MIS 199	Practicum	3
		<i>Total: 3</i>

<u>First Semester</u>		<u>Units</u>	<u>Second Semester</u>		<u>Units</u>
PH 103/	Philosophy of Religion/		PH 103/	Philosophy of Religion/	
PH 104	Foundations of Moral Value	3	PH 104	Foundations of Moral Value	3
TH 141/	A Theology of the Catholic Social Vision/		TH 141/	A Theology of the Catholic Social Vision/	
TH 151	The Catholic Commitment of Today's Filipino: A Synthesis	3	TH 151	The Catholic Commitment of Today's Filipino: A Synthesis	3
MIS 141	Project Management and MIS Development Tools	3	HI 166	Philippine History	3
MIS 131	Information Systems Administration	3	MIS 151	Information Technology Management	3
			MGT ELECTIVE		3

MAJOR ELECTIVE  
FREE ELECTIVE

3  
3  
*Total:* 18

MAJOR ELECTIVE  
3  
*Total:* 18

Total Number of Academic Units: 158  
Curriculum Effective Freshman Batch SY 2009 – 2010

## BACHELOR OF SCIENCE IN MANAGEMENT INFORMATION SYSTEMS/ MASTER OF SCIENCE IN COMPUTER SCIENCE

The program combines our existing BS Management Information Systems) with our graduate program MS Computer Science. No revisions in either curriculum have been made and there are no credit overlaps between two degrees. The undergraduate degree will be awarded at the end of the student's fourth year, while the graduate degree will be awarded at the end of the fifth year. In essence, the undergraduate students under the BS-MS program will take graduate courses during their senior year, so that a student can realistically complete his/her master's degree after an additional one year and two summers. Some rearrangements have been made on the scheduling of courses during the fourth year to accommodate graduate courses, in particular.

### FIRST YEAR

<u>First Semester</u>		<u>Units</u>	<u>Second Semester</u>		<u>Units</u>
EN 11	Communication in English I	3	EN 12	Communication in English II	3
LIT 13	Introduction to Fiction	3	LIT 14	Introduction to Poetry and Drama	3
FIL 11	Sining ng Pakikipagtalastasan sa Filipino I	3	FIL 12	Sining ng Pakikipagtalastasan sa Filipino II	3
MA 11	Modern Mathematics I	3	MA 19/20	Calculus for Economists	6
NATSCI 1A	Natural Science, Lecture	3	MIS 101	Introduction to Management Information Systems	3
NATSCI 1B	Natural Science, Laboratory	1	PE 2	Physical Education	(2)
PE 1	Physical Education	(2)	INTAC 2	Introduction to Ateneo Culture and Traditions	(0)
INTAC 1	Introduction to Ateneo Culture and Traditions	(0)			
		<i>Total:</i> 16			<i>Total:</i> 18

### SECOND YEAR

<u>Summer</u>		<u>Units</u>			
NATSCI 2A	Natural Science, Lecture	3			
NATSCI 2B	Natural Science, Laboratory	1			
SA 21	Introduction to Sociology and Anthropology	3			
		<i>Total:</i> 7			
<u>First Semester</u>		<u>Units</u>	<u>Second Semester</u>		<u>Units</u>
HI 16/HI 18	Asian History/Western History	3	FLC	Foreign Language and Culture	3
FIL 14	Panitikan ng Pilipinas	3	POS 100	Politics and Governance	3
SCI 10	Science and Society	3	TH 121	An Introduction to Doing a Catholic Theology	3
CS 21A	Introduction to Computing I	3	ACC 15	Fundamentals of Accounting	3
LS 11	Principles of Management	3	CS 105	Theory of Algorithms	3
PSY 101	General Psychology	3		Basic Economics, Agrarian Reform and Taxation	3
PE 3	Physical Education	(2)	EC 102	Taxation	3
NSTP 1	National Service Training Program	(3)	PE 4	Physical Education	(2)
		<i>Total:</i> 18	NSTP 2	National Service Training Program	(3)
					<i>Total:</i> 18

### THIRD YEAR

<u>Summer</u>		<u>Units</u>			
MIS 21	Introduction to Applications Development	3			
STAT 107	Introduction to Statistical Analysis	3			
		<i>Total:</i> 6			
<u>First Semester</u>		<u>Units</u>	<u>Second Semester</u>		<u>Units</u>
PH 101	Philosophy of the Human Person I	3	PH 102	Philosophy of the Human Person II	3
HI 165	Rizal and the Emergence of the Philippine Nation	3	TH 131	Marriage, Family Life and Human Sexuality in a Catholic Perspective	3
MIS 121	Systems Analysis and Design	3	CS 161	Operating Systems	3
CS 150	Computer Architecture	3	MIS 122	Database Systems Implementation	3
MIS ELECTIVE		3	MIS ELECTIVE		3
FREE ELECTIVE		3	MGT ELECTIVE		3
		<i>Total:</i> 18			<i>Total:</i> 18

#### FOURTH YEAR

##### Summer

MIS 199 Practicum

##### Units

3

Total: 3

##### First Semester

PH 103/ Philosophy of Religion/  
PH 104 Foundations of Moral Value 3  
TH 141/ A Theology of the Catholic Social Vision/  
TH 151 The Catholic Commitment of Today's  
Filipino: A Synthesis 3  
MIS 141 Project Management and  
MIS Development Tools 3  
MIS 131 Information Systems Administration 3  
MIS ELECTIVE 3  
FREE ELECTIVE 3  
CS 2XX Additional Master's Subject 3

Total: 21

##### Units

##### Second Semester

PH 103/ Philosophy of Religion/  
PH 104 Foundations of Moral Value 3  
TH 141/ A Theology of the Catholic Social Vision/  
TH 151 The Catholic Commitment of Today's  
Filipino: A Synthesis 3  
HI 166 Philippine History 3  
MIS 151 Information Technology Management 3  
MIS ELECTIVE 3  
MGT ELECTIVE 3

Total: 18

#### FIFTH YEAR

##### Summer

CS 290 Methods of Research  
(CS Required Elective) 3  
CS 2XX Additional Master's Subject 3  
CS 2XX Additional Master's Subject 3

##### Units

3

3

3

Total: 9

##### First Semester

CS 240 Advanced Data Structures and Algorithms 3  
CS 280 Programming Languages and Paradigms 3  
CS 2XX Additional Master's Subject 3  
CS 2XX Additional Master's Subject 3

Total: 12

##### Units

##### Second Semester

CS 242 Theory of Automata and Formal Languages 3  
CS 255 Computer Architecture and Operating Systems 3  
CS 300A\* Thesis Writing I 3  
CS 300B\* Thesis Writing II 3

Total: 12

\* 6 units of the thesis are credited after the student passes the oral defense and submits the final revised copy of the thesis

Total Number of Undergraduate Academic Units: 158

Total Number of Graduate Academic Units: 36

Total Number of Academic Units: 194

Curriculum Effective Freshman Batch SY 2012 – 2013

### MINOR/SPECIALIZATION IN INTERACTIVE MULTIMEDIA

The Minor/Specialization in Interactive Multimedia teaches students to create highly-interactive and media-rich applications for PCs, consoles, or handheld devices, including but not limited to games and simulations. The program encourages development of original content and provides qualified technical personnel to game development houses, telecommunication companies, healthcare providers, and other industries here and abroad.

The minor is open to Loyola Schools undergraduate students majoring in Computer Science or Management Information Systems. Students must have taken and passed CS 21A.

To qualify for the Minor in Interactive Multimedia, students must take and pass the following subjects:

CS 177	Computer Graphics Programming	3 units
CS 179.15A	Special Topics in Multimedia: Introduction to Game and Games Design I	3 units
CS 179.15B	Special Topics in Multimedia: Introduction to Game and Games Design II	3 units

Two electives from among those listed below:

CS 119.3	Special Topics in Languages: Object-Oriented Programming for Mobile Systems	3 units
CS 158	Computer Simulation	3 units
CS 179.4	Special Topics in Multimedia: 3D Animation and Modeling	3 units
CS 179.11	Special Topics in Multimedia: Introduction to Flash Scripting	3 units
CS 179.14	Special Topics in Multimedia: PC and Console Game Development	3 units
Related electives recommended by the department		

### **SPECIALIZATION IN ENTERPRISE SYSTEMS**

The Specialization in Enterprise Systems builds on the information systems development concepts and skills learned by the students from their major courses. The specialization emphasizes the design, development, and maintenance of large-scale, integrated systems used by large, globally-oriented enterprises.

This specialization is open to the Department's BS CS and BS MIS majors. Students take and pass five courses from the suite of electives offered by the Department. Both CS and MIS majors utilize their three major electives and two free electives (or overload in their senior year as necessary) to fulfill the requirements. Electives to be credited under this specialization are the following:

CS 119.2	Special Topics in Languages: Enterprise Systems Programming	3 units
CS 119.3	Special Topics in Languages: Object-Oriented Programming for Mobile Systems	3 units
CS 189.2	Special Topics in Business Computing: Financial Information Systems	3 units
MIS 129.1	Special Topics in Information Systems Engineering: Quality Assurance	3 units
MIS 129.2	Special Topics in Information Systems Engineering: Technical Writing	3 units
MIS 181.8	Special Topics in Management Science: Business Process Management	3 units
MIS 181.9	Special Topics in Management Science: Service Oriented Architecture	3 units

### **SPECIALIZATION IN BUSINESS INTELLIGENCE**

The Specialization in Business Intelligence extends the use of data gathered using information systems. The specialization focuses on the analysis of large quantities of data in order to assist organizations with their managerial and strategic decision-making.

This specialization is open to the Department's BS CS and BS MIS majors. Students take and pass five courses from the suite of electives offered by the Department. Both CS and MIS majors utilize their three major electives and two free electives (or overload in their senior year as

necessary) to fulfill the requirements. Electives to be credited under this specialization are the following:

CS 129.1	Special Topics in Software Engineering: Contemporary Database Technologies	3 units
CS 129.10	Special Topics in Software Engineering: Web Programming in PHP	3 units
CS 129.15	Special Topics in Software Engineering: Business Intelligence	3 units
CS 129.18	Special Topics in Software Engineering: Pattern Recognition	3 units
CS 158	Computer Simulation	3 units
CS 159.35	Special Topics in Systems: Survey on Contemporary Technologies	3 units
MIS 181.1	Special Topics in Management Science: Knowledge Management	3 units

## COURSE OFFERINGS

### **CS 10.5 COMPUTER APPLICATIONS IN BUSINESS 3 units**

This course is an introduction to software for business applications, such as Microsoft Office, and a discussion of important issues, such as organization, retrieval, and presentation of information.

### **CS 21A INTRODUCTION TO COMPUTING I 3 units**

This course introduces information technology fundamentals, computer science problem solving, and programming. An object-oriented programming language is used (e.g. Java) to discuss fundamentals and principles of programming and program logic formulation. Topics include ethical issues in the IT field, Internet applications, and web-based programming.

### **CS 21B INTRODUCTION TO COMPUTING II 3 units**

**Pre-requisite:** CS 21A

This course builds on the basic programming concepts and techniques taught in CS 21A and more advanced topics to enable the writing of more complex and powerful programs. Ethical issues in the IT field are also discussed along with the syllabus.

### **CS 23 SYSTEMS PROGRAMMING 3 units**

This course contains lessons on ANSI C, Unix System and Network Programming. Primary emphasis will be given to discussing principles of programming languages, operating system concepts such as threading, process and memory management, sockets, IPC and synchronization primitives.

### **CS 30 INTRODUCTION TO INFORMATION TECHNOLOGY 3 units**

This course demonstrates how information technology and information systems can give businesses strategic technology platform that supports electronic commerce and enterprise collaboration among the internet-worker enterprise in today's global environment.

### **CS 31 INTRODUCTION TO THE TELECOMMUNICATIONS INDUSTRY 3 units**

This course is an overview of the global and local telecommunications industry. Topics include technological innovations from the invention of the telephone to the most recent telecommunications systems, current state of the industry in the Philippines, and issues governing

policy formation and management.

**CS 105**  
**THEORY OF ALGORITHMS**  
**3 units**

This is a course on the fundamental techniques used to design and analyze efficient algorithms. These techniques include greedy algorithms, divide-and-conquer algorithms, dynamic programming, graph algorithms, probabilistic algorithms, and parallel algorithms.

**CS 110**  
**DATA STRUCTURES AND ALGORITHMS**  
**3 units**

**Pre-requisite: CS 21B**

This course is a comprehensive introduction to the design, analysis, and implementation of data structures and algorithms. Topics include lists and linked-lists, stacks, queues, trees and graphs, and dictionaries (including sorting, searching, and hashing algorithms), as well as design, performance measurement, and analysis of algorithms.

**CS 111**  
**CONTEMPORARY PROGRAMMING LANGUAGES**  
**3 units**

**Pre-requisite: CS 21A**

This course discusses contemporary programming paradigms, including structured programming, object-oriented programming, and functional programming. Focus is on object-oriented programming and its underlying concepts such as encapsulation, inheritance, polymorphism, and software reuse, as well as related technologies such as object databases and visual programming.

**CS 112**  
**STRUCTURE OF PROGRAMMING LANGUAGES**  
**3 units**

**Pre-requisite: CS 21A**

This course is an in-depth study of current and historical issues in the design, implementation, and application of programming languages. Topics include types of languages (e.g., functional, logic, markup, scripting, object-oriented, and meta languages), syntax, semantics, binding, data abstraction, exception handling, concurrency, and compiler design.

**CS 119**  
**SPECIAL TOPICS IN LANGUAGES**  
**3 units**

**Pre-requisite: CS 21A and Consent of instructor**

This is a seminar course on the developments in the field of programming languages. Students do research, present papers, and develop applications using the programming languages.

**CS 119.2**  
**SPECIAL TOPICS IN LANGUAGES: ENTERPRISE SYSTEMS PROGRAMMING**  
**3 units**

**Pre-requisite: Consent of instructor**

This course deals with the implementation of enterprise systems. Using a particular application server software platform, the development enterprise systems program is demonstrated covering various technology components such as web server and server-side programming, database connectivity, and Graphical User Interface (GUI) design.

**CS 119.3**  
**SPECIAL TOPICS IN LANGUAGES: OBJECT-ORIENTED PROGRAMMING FOR MOBILE SYSTEMS**  
**3 units**

**Pre-requisite: CS 21A, CS 21B and Consent of instructor**

This seminar course focuses on the use of Java Technologies to develop mobile systems. The course aims to familiarize students with technology that will allow them to develop applications for various mobile devices, primarily using Java. It also aims to familiarize the students with the back-ends of mobile systems.

**CS 119.4**  
**SPECIAL TOPICS IN LANGUAGES: PROGRAMMING FOR EMBEDDED DEVICES**  
**3 units**

**Pre-requisite: Consent of instructor**

This is a course on writing application programs for handheld computers running the PalmOS operating system. Various handheld organizer computers run PalmOS, like Palm, Sony Clie, Handspring and Treo, making PalmOS the most popular embedded OS today, and constitutes the biggest share of the handheld market.

**CS 122**  
**DATABASE SYSTEMS**  
**3 units**

**Pre-requisite: Consent of instructor**

This course deals with basic database knowledge required of the professional, including principles of programming languages and database management; basic theories, concepts, methods, and terminology used in database technology; principles associated with the analysis, development, implementation, and maintenance



of database systems; and database development tools.

**CS 123**  
**INTRODUCTION TO**  
**SOFTWARE ENGINEERING**  
**3 units**

**Pre-requisite: CS 110**

This course is an overview of the software engineering process. Topics include requirement analysis, analysis modeling, software design fundamentals, software testing, quality assurance, software maintenance, and object-oriented software engineering.

**CS 124**  
**OBJECT-ORIENTED**  
**SOFTWARE DESIGN AND**  
**IMPLEMENTATION**  
**3 units**

**Pre-requisite: Consent of instructor**

This course discusses software *design* and *implementation* of object-oriented systems. Emphasis is on object-oriented modeling and development using contemporary modeling techniques and languages. Actual software projects are carried out during the semester—design models and systems are produced and used as cases for discussion.

**CS 129.1**  
**SPECIAL TOPICS IN**  
**SOFTWARE ENGINEERING:**  
**CONTEMPORARY DATABASE**  
**TECHNOLOGIES**  
**3 units**

**Pre-requisite: Consent of instructor**

This is a seminar course on topics in software engineering. This course is a follow-through to the introductory course on database systems, the tools available to an application developer in a client-server environment using Oracle Technology are presented.

**CS 129.3**  
**SPECIAL TOPICS IN**  
**SOFTWARE ENGINEERING:**  
**WEB PROGRAMMING**  
**3 units**

**Pre-requisite: Consent of instructor**

This course introduces building dynamic Web applications. Topics include the history of the Internet; fundamental internet technologies and concepts; PERL, PHP and Apache; web application development using ASP.NET and C# language; data access using ADO.NET; authentication and authorization; mobile web applications; and XML web services.

**CS 129.4**  
**SPECIAL TOPICS IN**  
**SOFTWARE ENGINEERING:**  
**ENTERPRISE AND**  
**DISTRIBUTED SOFTWARE**  
**3 units**

This course is an introduction to the discipline of creating, maintaining, and modifying enterprise and distributed systems with emphasis on foundation technologies.

**CS 129.5**  
**SPECIAL TOPICS IN**  
**SOFTWARE ENGINEERING:**  
**.NET PROGRAMMING**  
**3 units**

**Pre-requisites: CS 21A and CS 21B**

This course provides a comprehensive introduction to building applications using the Microsoft .NET Framework. Technologies covered include: programming in the C# language, the .NET Common Language Runtime (CLR), the .NET Framework Class Library, Windows Forms, data access using ADO.NET, Web application development using ASP.NET, and XML Web services.

**CS 129.8**  
**SPECIAL TOPICS IN**  
**SOFTWARE ENGINEERING:**  
**INTRODUCTION TO**  
**SOFTWARE TESTING**  
**3 units**

**Pre-requisites: CS 21A, CS 21B/MIS 21**

This course is an introduction to software testing. The different levels, techniques, and management of software testing are tackled.

**CS 129.10**  
**SPECIAL TOPICS IN**  
**PROGRAMMING: WEB**  
**PROGRAMMING IN PHP**  
**3 units**

**Pre-requisite: Consent of instructor**

This course is an introduction to software testing and an overview of the kinds and methods of testing activity. Topics include the activities performed and artifacts produced when conducting tests as well as the functions, features, and several types of black box testing.

**CS 129.15**  
**SPECIAL TOPICS IN**  
**SOFTWARE ENGINEERING:**  
**BUSINESS INTELLIGENCE**  
**3 units**

**Pre-requisite: Consent of instructor**

This course introduces the area of business intelligence and its value in an organization. Topics include data mining concepts, algorithms and software. The students are also exposed to the data warehousing process in order to provide a technical framework for implementing data mining techniques.

**CS 129.18**  
**SPECIAL TOPICS IN**  
**SOFTWARE ENGINEERING:**  
**PATTERN RECOGNITION**  
**3 units**

This course is an introduction to pattern recognition concepts and

practices. Topics include both statistical and modern computer-oriented approaches commonly applied in data mining, image segmentation and recognition, fault detection, financial analysis, fingerprint identification, robotics and vision, medical diagnosis, automated target recognition, and information retrieval.

**CS 129.42  
CLOUD COMPUTING**

**3 units**

This course introduces students to the concept of cloud computing and how it is used in business through an e-commerce system running in a cloud computing setup. Students learn how to customize an e-commerce system by means of client and server side scripting and web services on the cloud computing system.

**CS 130  
THEORY OF COMPUTATION  
(AUTOMATA THEORY)**

**3 units**

This course introduces formal modes of computing, formal languages and compiler design, theoretical basis of languages, parsers and compilers, strings and languages, regular expressions, finite state machines, the Pumping Lemma, push-down automata, lexical analysis and parsing, context-free grammars, Turing Machines, Church's Thesis, and the Halting Problem.

**CS 131  
ALGORITHMS AND PROBLEM  
SOLVING**

**3 units**

**Pre-requisite: CS 110**

This course is a study of the basic tools necessary to develop algorithms in whatever field of application they may be required. Focus is on the fundamental techniques used to design and analyze efficient algorithms – greedy, divide-and-conquer, dynamic programming, graph,

probabilistic, and parallel-algorithms.

**CS 133  
NUMERICAL ANALYSIS**

**3 units**

**Pre-requisites: MA 21, CS 110**

This course discusses polynomial forms, divided differences, and polynomial interpolation, including polynomial approximations, least squares approximation and orthogonal polynomials, B-splines and spline approximation, with a discussion of numerical methods for solving initial and boundary value problems for ordinary differential equations and for solving matrix problems.

**CS 134  
COMPUTATIONAL  
COMPLEXITY**

**3 units**

**Pre-requisite: CS 110**

This course is a study of classifying problems in terms of their complexity, models of computation, and the different complexity classes that result from them. Topics include space and time complexity analysis of algorithms, reductions and NP-completeness, and the approximation of optimization problems.

**CS 135  
COMPILERS**

**3 units**

**Pre-requisites: CS 110, CS 130**

This course is an in-depth discussion of various compiling techniques and the theory and application of the concepts in compiler design. Topics include lexical analysis, parsing techniques, symbol table management, code generation, code optimization, and run-time environments.

**CS 139  
SPECIAL TOPICS IN THEORY**

**3 units**

**Pre-requisite: CS 101 or Consent of instructor**

This is a seminar course on developments in the theoretical field of computer science.

**CS 139.1  
SPECIAL TOPICS IN THEORY:  
BIOINFORMATICS**

**3 units**

**Pre-requisite: Consent of instructor**

This course is designed to bring together faculty and students from computing, life science, and physical science backgrounds to discuss and analyze genomes, genes, gene products/proteins, and function using computational tools. Focus is on the main databases, search tools, matching methods, and predictive models.

**CS 139.2  
APPLIED CRYPTOGRAPHY  
AND NETWORK SECURITY**

**3 units**

**Pre-requisite: Consent of instructor**

This course is a survey of the principles and implementation issues related to cryptography and network security. Topics include classical, conventional, and public-key encryption algorithms and their applications to the practice of computer network security.

**CS 139.3  
ADVANCED COMPUTER  
SCIENCE PROBLEM  
SOLVING I**

**3 units**

**Pre-requisite: Consent of instructor**

*For students who are fairly advanced and would like to train for programming competitions.* This seminar course on advanced problem solving in computer science focuses on applying concepts in arithmetic, algebra,

geometry, calculus, number theory, numerical analysis, operations research, and in data structures and algorithms, to solve various problems, and finally implementing the solutions in programming languages such as Java and C.

**CS 139.4**  
**SPECIAL TOPICS IN THEORY:  
ADVANCE DCOMPUTER  
SCIENCE PROBLEM  
SOLVING II**  
**3 units**

**Pre-requisite:** CS 139.3

This seminar course on advanced problem solving in computer science focuses on applying concepts in arithmetic, algebra, geometry, calculus, number theory, numerical analysis, operations research, and in data structures and algorithms, to solve various problems. More complex problems are covered, with the solutions implemented in programming languages.

**CS 150**  
**COMPUTER ARCHITECTURE**  
**3 units**

**Pre-requisite:** CS 21A

This course is a discussion on the structure, characteristics, and operation of modern computer systems. Emphasis is on the fundamental principles and the critical role of performance in driving computer design, and current advances in computer hardware.

**CS 152A**  
**COMPUTER  
ORGANIZATION I**  
**3 units**

**Pre-requisite:** PS 141

This course is a study on the organization of a computer and how it is built, from electrical signals to transistors to computers to a network of computers. Topics include the basics of digital design and the building blocks of computers.

**CS 152B**  
**COMPUTER  
ORGANIZATION II**  
**3 units**

**Pre-requisite:** PS 141

**Co-requisite:** CS 152A

A discussion of computer hardware design concepts and techniques, including a study of the behavior and characteristics of transistors, the design and implementation of digital components and CPU building blocks, and the implementation of pipelining and caching techniques in hardware.

**CS 154**  
**COMPUTER NETWORKS AND  
DATA COMMUNICATIONS**  
**3 units**

**Pre-requisite:** CS 152A

This is a technical discussion on data communications, computer network structure and architecture, and the OSI reference model for computer networks interconnection, which consists of the physical, data link, network, transport, session, presentation, and application layers.

**CS 156**  
**MANAGEMENT OF  
COMMUNICATION  
TECHNOLOGIES**  
**3 units**

*The course is best suited for students whose major is in the area of management or in related fields.*

This is a discussion on the basics of computer networks and data communications and OSI reference model for computer networks interconnection. Topics include issues in the design and implementation of computer communication infrastructures, technologies currently in use, equipment presently deployed, and trends in this industry.

**CS 157**  
**ADVANCED COMPUTER  
ARCHITECTURE**  
**3 units**

**Pre-requisite:** CS 152A

This course is an analysis and evaluation of modern computing systems such as the selection of appropriate benchmarks to reveal and compare the performance of alternative design choices in systems design. Emphasis is on the major subsystem components of high performance computers.

**CS 158**  
**COMPUTER SIMULATION**  
**3 units**

This course is a technical discussion on data communications, computer network structure and architecture, and the OSI reference model for computer networks interconnection. Topics include data communications, such as standards, electrical interfaces, transmission, and protocols; network equipment currently used; and computer network design.

**CS 159**  
**SPECIAL TOPICS IN SYSTEMS**  
**3 units**

**Pre-requisite:** Consent of instructor

This is a seminar course on developments in the fields of computer networking and communication, computer systems design and implementation and computer architecture.

**CS 159.5**  
**SPECIAL TOPICS IN SYSTEMS:  
BASIC SYSTEMS AND  
NETWORK  
ADMINISTRATION**  
**3 units**

**Pre-requisite:** Consent of instructor

This is a seminar course on developments in fields of computer networking and

communication, computer systems design and implementation, and computer architecture.

**CS 159.12**  
**SPECIAL TOPICS IN SYSTEMS:**  
**NETWORKS II**

**3 units**

This course studies the issues in the design and analysis of communication networks and systems in terms of physical implementation, protocols, routing, management, software interfaces and applications. Focus is on high-speed LAN, WAN, and telecommunication network technologies; and on network design and integration issues.

**CS 159.20**  
**SPECIAL TOPICS IN SYSTEMS:**  
**NETWORK SECURITY AND**  
**HACKING**  
**COUNTERMEASURES**

**3 units**

This is a course on the fundamentals of network security. The different practices of hacking are explained, with emphasis on the steps that need to be taken to counteract such hacking activities.

**CS 159.35**  
**SPECIAL TOPICS IN SYSTEMS:**  
**SURVEY ON**  
**CONTEMPORARY**  
**TECHNOLOGIES/**  
**SEMINAR: SURVEY ON**  
**COEMPORARY**  
**TECHNOLOGIES**

**3 units**

This is a course that teaches students how to determine the different interacting components used to build current prevalent technologies. The technologies that will be analyzed would include web-based networking, web-based video portals, and other web 2.0 technologies.

**CS 161**  
**OPERATING SYSTEMS**  
**3 units**

**Pre-requisite: Consent of instructor**

This course is an introduction to the techniques used to implement operating systems and the design and implementation of various operating systems, specifically NT and UNIX. This component contains some basic UNIX systems fundamentals such as installation and scripting to familiarize the student with the environment.

**CS 162A**  
**OPERATING SYSTEMS**  
**3 units**

**Pre-requisite: Consent of instructor**

This course is an introduction to the techniques used in the implementation and design of various operating systems, specifically NT and Unix. Among the topics covered are process management, control of disks and other input/output devices, file system structure and implementation, and protection and security.

**CS 162B**  
**SYSTEMS PROGRAMMING**  
**3 units**

**Pre-requisite: Consent of instructor**

This is a course on ANSI C, Unix systems, and network programming. Emphasis is on operating system concepts such as threading, process and memory management, sockets, IPC and synchronization primitives. The course also covers development in Linux, a UNIX-like operating system.

**CS 171**  
**INTRODUCTION TO**  
**ARTIFICIAL INTELLIGENCE**  
**3 units**

**Pre-requisite: CS 21A or a course in any procedural or object oriented programming**

This course is an introduction to the basic principles, techniques, and applications of artificial intelligence. Topics include the fundamental principles, design, and implementation of intelligent agents – software or hardware entities that perform useful tasks with some degree of autonomy.

**CS 175**  
**INTRODUCTION TO**  
**MULTIMEDIA SYSTEMS**  
**3 units**

**Pre-requisite: Consent of instructor**

*Although this course is open to all, CS and MIS majors are encouraged to take Computer Graphics, .Net, Wireless Programming, or Web Page Programming courses instead.*

This course is a study of the different elements involved in the creation of multimedia applications. Topics include color theory, compression schemes, image design and processing, video production, and interactive presentations. Students produce a portfolio containing various images and video created during the semester.

**CS 176**  
**ELECTRONIC PUBLISHING**  
**3 units**

**Pre-requisite: Consent of instructor**

This is a course on desktop-publishing, including typesetting documents for electronic presentation. Topics include the foundations of information architecture and various means of electronic distribution of information such as HTML, Authoring Software, and Adobe PDF.

**CS 177**  
**COMPUTER GRAPHICS**  
**PROGRAMMING**

**3 units**

**Pre-requisites:** C/C++  
programming, Data Structures  
and Algorithms, Discrete  
Mathematics

This course introduces students to the various elementary principles of computer graphics. The course deals with the basic mathematical concepts behind graphics, i.e. how the computer generates images that model the real world; and fundamentals of OpenGL programming.

**CS 178**  
**INSTRUCTIONAL SOFTWARE**  
**DESIGN AND DEVELOPMENT**  
**3 units**

**Pre-requisite:** CS 21A

This course is a study of the different stages in courseware development and current studies about IT in the classroom, both locally and internationally. Students are required to produce individually authored educational packages using any of the authoring tools used by the department.

**CS 179.3**  
**SPECIAL TOPICS IN**  
**MULTIMEDIA: WEB PAGE**  
**DESIGN**

**3 units**

**Pre-requisite:** Consent of  
instructor

This is a course on various web design concepts and techniques that serve as a foundation for the design and creation of effective web pages.

**CS 179.4**  
**3D ANIMATION AND**  
**MODELING**

**3 units**

**Pre-requisite:** Consent of  
instructor

This is a course on the theories in geometry, algorithms in computer

graphics, and its implementation in a 3D modeling software.

**CS 179.5**  
**SPECIAL TOPICS IN**  
**MULTIMEDIA: HUMAN**  
**COMPUTER INTERACTION**

**3 units**

**Pre-requisite:** Consent of  
instructor

This is a course on human computer interaction which emphasizes that systems should be designed with the user – the human being – in mind, supporting human capabilities and compensating for human limitations.

**CS 179.6**  
**SPECIAL TOPICS IN**  
**MULTIMEDIA:**  
**INTRODUCTION TO THE**  
**DESIGN AND DEVELOPMENT**  
**OF COMPUTER GAMES**

**3 units**

**Pre-requisite:** Consent of  
instructor

This course introduces the aspects of professional computer game design and programming. Topics include good design principles, graphics and sound programming, modeling techniques, and project management in the context of developing a complete, marketable computer game. Special topics include console programming (e.g. Playstation 2).

**CS 179.7**  
**SPECIAL TOPICS IN**  
**MULTIMEDIA: ADVANCED**  
**COMPUTER GRAPHICS**  
**THEORY AND**  
**PROGRAMMING**

**3 units**

**Pre-requisite:** Consent of  
instructor

This is a continuation of the introductory graphics course. Building upon the previous course, students are taught optimization, advanced geometry for graphics, animation, and

advanced rendering techniques. Students delve deeper into a technical treatise of current computer graphics technologies.

**CS 179.8**  
**SPECIAL TOPICS IN**  
**MULTIMEDIA: VIDEO**  
**PRODUCTION FOR THE**  
**PROSUMER**

**3 units**

This course is an introduction to the fundamentals of digital video. Concepts and methods in desktop video production as well as the possible video distribution channels available for the average Prosumer are tackled.

**CS 179.10**  
**SPECIAL TOPICS IN**  
**MULTIMEDIA:**  
**COMPUTATIONAL**  
**GEOMETRY AND VECTOR**  
**ANALYSIS**

**3 units**

**Pre-requisite:** Calculus, Linear  
Algebra

This course is the study of algorithms and mathematical representations of geometry. It covers vector operations such as dot and cross products and their applications in line representations, projections, and other geometric computations.

**CS 179.11**  
**SPECIAL TOPICS IN**  
**MULTIMEDIA:**  
**INTRODUCTION TO FLASH**  
**SCRIPTING**

**Pre-requisite:** Consent of  
instructor

This is a seminar course on topics related to Flash scripting.

**CS 179.14**  
**SPECIAL TOPICS IN**  
**MULTIMEDIA: PC AND**  
**CONSOLE GAME**  
**DEVELOPMENT**

**3 units**

**Pre-requisite:** Consent of  
instructor



This course is an introduction to aspects of 3-D game programming for mainstream platforms (PCs and consoles, e.g. Playstation 2). These aspects include graphics and sound programming, user interface design, and artificial intelligence.

**CS 179.15A**  
**SPECIAL TOPICS IN**  
**MULTIMEDIA:**  
**INTRODUCTION TO GAME**  
**AND GAMES DESIGN I**  
**3 units**

**Pre-requisite: Consent of instructor**

This course introduces the essential concepts behind game design. These concepts follow the game development process, from brainstorming a game idea and establishing the focus to getting the gameplay work and playtesting. Different games (both PC and console games) of different genres are analyzed.

**CS 179.15B**  
**SPECIAL TOPICS IN**  
**MULTIMEDIA:**  
**INTRODUCTION TO GAME**  
**AND GAMES DESIGN II**  
**3 units**

**Pre-requisite: Consent of instructor**

Using an authoring tool, game development environment, or similar software, students implement the design or script created in CS 179.15A. The game is tested with representatives from the target audience and evaluated based on formal measures of playability testing.

**CS 185**  
**ACCOUNTING**  
**INFORMATION SYSTEMS**  
**3 units**

**Pre-requisite: Consent of instructor**

This course is an overview of accounting information systems.

**CS 186**  
**APPLICATIONS IN**  
**MANAGEMENT SCIENCE**

**3 units**

**Pre-requisite: Consent of instructor**

This course is an introduction to the concepts and applications of management science.

**CS 187.1**  
**APPLICATIONS IN MEDICINE**  
**AND PUBLIC HEALTH**  
**INFORMATICS**

**3 units**

**Pre-requisite: Consent of instructor**

This course is an overview of the various applications of information and communications technology in the health sciences, encompassing the spectrum from bioinformatics, medical informatics, to public health informatics, emphasizing how biomedical concepts place constraints on their counterpart instances in the information science domain.

**CS 188**  
**BUSINESS PROGRAMMING**  
**3 units**

**Pre-requisite: CS 21A**

This course introduces the use of computers in business applications such as file processing and updating, sorting, data management, and reporting, it discusses the use of external storage, input-output techniques, introduction to COBOL, elements of structured programming using COBOL, and programming using business applications.

**CS 189**  
**SPECIAL TOPICS IN BUSINESS**  
**COMPUTING**

**3 units**

**Pre-requisite: Consent of instructor**

This is a seminar course on special topics related to developments in the fields of business computing,

information systems, and information technology.

**CS 189.2**  
**SPECIAL TOPICS IN BUSINESS**  
**COMPUTING: FINANCIAL**  
**INFORMATION SYSTEMS**

**3 units**

**Pre-requisite: Consent of instructor**

This is a seminar course on special topics related to developments in the fields of business computing, information systems, and information technology. Topics include analysis of the design and functions of the different systems being used by financial institutions today.

**CS 193.1**  
**INTRODUCTION TO SOCIAL**  
**COMPUTING**

**3 units**

This introductory course provides a background on social psychology, understanding of online environments and online social networks, social mining and social network analysis to better understand our networked societies. It also introduces key developments and tools in areas such as Big Data Analytics (Hadoop and NoSQL) and Massively Distributed Systems.

**CS 195**  
**SPECIAL TOPICS**

**3 units**

**Pre-requisite: Consent of instructor**

This is a seminar course on topics related to developments in the subfields of computer science.

**CS 195.S14**  
**MIS GAMES AND**  
**STRATEGIES**

**3 units**

**Pre-requisite: Consent of instructor**

This course studies various non-technical issues that an MIS developer faces concerning

communication, problem solving, awareness of the organizational dynamics, teamwork, negotiation and conflict management, and change management. Games and activities are used to study these issues and gain insights into human behavior in groups.

**CS 196.1  
DESIGNING FOR MOBILE  
DEVICES**

**3 units**

This course applies theories in user interface and user experience in the design of applications for mobile devices. Topics included are: the history of mobile devices, elements in mobile applications, operating systems in mobile devices, mobile cloud computing, and design tools and engines.

**CS 196.2  
SPECIAL TOPICS IN MOBILE  
LEARNING**

**3 units**

This introductory course in the design and development of content for mobile platforms. It provides a context to understanding the learning environment by introducing the history of mLearning in the Philippines. mLearning as a subfield of distance education, mLearning research and practice, Filipino socio-cultural frame for mLearnings.

**CS 197  
INTEGRATIVE PROJECT**

**3 units**

*For students interested in gaining experience in doing research and development work.*

Under the supervision of a faculty member, students study related literature, propose a relevant and feasible research project, develop it into concrete hardware or software, and present their results in a final technical report.

**CS 199  
PRACTICUM**

**3 units**

*Taken during the summer prior to the fourth or final year of study*

This is a work practicum program wherein students apply IT/IS knowledge and problem-solving skills to real-life situations in a professional context. The experience helps students to appreciate the higher-level management and IT subjects in their fourth year.

**CS 240  
ADVANCED DATA STRUCTURES  
AND ALGORITHMS**

**3 units**

This course discusses a variety of data structures and algorithms for sorting and searching, text processing, graph problems, and for approximating NP-complete problems. It also focuses on the analysis of the time and space complexities involved in executing these algorithms using specific data structures.

**CS 242  
THEORY OF AUTOMATA AND  
FORMAL LANGUAGES**

**3 units**

This course is an introduction to formal methods of computing and their relation to formal languages. Topics include application areas like lexical analysis and parsing, Finite State Machines, Formal Grammars, Context-Free Grammars, Pushdown Automata, and Turing machines.

**CS 255  
COMPUTER ARCHITECTURE  
AND OPERATING SYSTEMS**

**3 units**

**Pre-requisite:** CS 150, CS 161

This course discusses advanced concepts of hardware architecture and organization of computers and computer systems, including operating system concepts. Topics include pipelining, computer memory concepts, storage

systems and multiprocessor design. Students get to learn and appreciate the complexity of the software and hardware coordination.

**CS 280  
PROGRAMMING  
LANGUAGES AND  
PARADIGMS**

**3 units**

This course is an in-depth study of current and historical issues in the design, implementation, and application of programming languages. Topics include syntax, semantics, binding, data abstraction, exception handling, concurrency, as well as functional, logic, and object-oriented programming.

**CS 290  
METHODS OF RESEARCH**

**3 units**

This course prepares students for graduate level research. Students conduct research in at least two research areas the department is involved in, e.g., Networks, Multimedia and CAI, MIS, and Theory. Students produce a project proposal and a final paper, which includes a classroom defense.

**CS 300A  
THESIS WRITING I**

**3 units**

This course prepares students for thesis writing. Together with an adviser, the student produces, submits, and defends a research proposal.

**CS 300B  
THESIS WRITING II**

**3 units**

This course prepares students for thesis defense. At the end of the semester, the student should be able to produce and defend a thesis paper.



**MIS 21  
INTRODUCTION TO  
APPLICATIONS  
DEVELOPMENT**

**3 units**

This course introduces students to database applications development. Topics include basic database concepts, the Structured Query Language (SQL), and system architectures for database systems. Students are exposed to current technologies for database and systems development.

**MIS 101  
INTRODUCTION TO  
MANAGEMENT  
INFORMATION SYSTEMS**

**3 units**

This course introduces information systems and information technology, including the basic theories, concepts, methods and terminology; the changing role of information systems and how organizations use them; information technology and its applications; and principles associated with the analysis, development, implementation and maintenance of information systems.

**MIS 121  
SYSTEMS ANALYSIS  
AND DESIGN**

**3 units**

This course introduces information system concepts and the system development process. Emphasis is on the development phase of analysis, application of structured methods, and use of tools. As the course ends, students working in teams determine and specify user requirements for an information system application.

**MIS 122  
DATABASE SYSTEMS  
IMPLEMENTATION**

**3 units**

This is a course on basic database knowledge required of the

professional. Emphasis is on the design and implementation of databases rather than the theory of database construction.

**MIS 129.1  
SPECIAL TOPICS IN  
INFORMATION SYSTEMS  
ENGINEERING: QUALITY  
ASSURANCE**

**3 units**

**Pre-requisite: Consent of instructor**

This course is an introduction to the basic knowledge and skills required of a quality analyst. The course offers a holistic view of Software Quality Assurance – from the perspective of programmers/designers, management, and customers.

**MIS 129.2  
SPECIAL TOPICS IN  
INFORMATION SYSTEMS  
ENGINEERING: TECHNICAL  
WRITING**

**3 units**

**Pre-requisite: Consent of instructor**

This is a course designed to instruct the student on how to create effective writing. The various mediums of technical writing are identified and the proper treatments of these are covered at length.

**MIS 131  
INFORMATION SYSTEMS  
ADMINISTRATION**

**3 units**

**Pre-requisite: Consent of instructor**

This course is a study of the role of IT in modern business organizations, the function and roles of an Information Systems department, and the skills and tools employed in managing information systems.

**MIS 141  
PROJECT MANAGEMENT  
AND MIS DEVELOPMENT  
TOOLS**

**3 units**

**Pre-requisite: Consent of instructor**

This course is an introduction to the general principles of project management in the IS environment, focusing on the interrelationships between system development methodologies and project management tools and techniques.

**MIS 151  
INFORMATION  
TECHNOLOGY  
MANAGEMENT**

**3 units**

**Pre-requisite: Consent of instructor**

This course is a discussion of the important and relevant management issues involved in providing information services to the organization. It is intended as the capstone course for BS MIS students providing opportunities for integration and application of the other MIS courses.

**MIS 181.1  
SPECIAL TOPICS IN  
MANAGEMENT SCIENCE:  
KNOWLEDGE MANAGEMENT**

**3 units**

**Pre-requisite: Consent of instructor**

This course is a discussion on the impact of knowledge on a global and corporate level and the different ways of managing the knowledge from a technical, managerial, and psychological perspective. This course discusses theoretical frameworks and models on how knowledge is created, organized, disseminated, and used.

**MIS 181.3  
SPECIAL TOPICS IN  
MANAGEMENT SCIENCE:  
MANAGING  
ORGANIZATIONAL CHANGE  
IN TECHNOLOGY PROJECTS  
3 units**

This course is a discussion of the basic components in the process of implementing technology projects in organizations and the various “Transformation Strategies” being implemented today from the perspective of one managing the transformation process.

**MIS 181.4  
SPECIAL TOPICS IN  
MANAGEMENT SCIENCE:  
INFORMATION  
ENGINEERING  
3 units**

This is a practical training course on information design for users and maintenance manuals and the navigation modeling of data-intensive websites from a work-centered perspective. The two subjects are closely linked insofar as Internet and Intranet facilities are frequently used to convey support for users.

**MIS 181.5  
SPECIAL TOPICS IN  
MANAGEMENT SCIENCE:  
SURVEY OF ICT  
MANAGEMENT STANDARDS  
3 units**

This is a preparatory course on the latest standards in the areas of Quality, Productivity, and Process Management being applied by the ICT sector in the global marketplace.

**MIS 181.6  
SPECIAL TOPICS IN  
MANAGEMENT SCIENCE:  
INTRODUCTION TO IT AUDIT  
3 units**

This course is an introduction to the computer processing environment, focusing on general computer controls and their

effectiveness in supporting the reliable processing of financial information within the related business cycles.

**MIS 181.7  
SPECIAL TOPICS IN  
MANAGEMENT SCIENCE:  
ACCOUNTING  
INFORMATION SYSTEMS  
3 units**

**Pre-requisite: Consent of instructor**

This course is an overview of accounting information systems.

**MIS 181.8  
SPECIAL TOPICS IN  
MANAGEMENT SCIENCE:  
BUSINESS PROCESS  
MANAGEMENT  
3 units**

**Pre-requisite: Consent of the instructor**

This course discusses the frameworks, approaches, methods and software for achieving and maintaining business process excellence with or without the use of an information system. It exposes the students to SAP Business One, an enterprise system software being used by small to medium scale companies.

**MIS 181.9  
SPECIAL TOPICS IN  
MANAGEMENT SCIENCE:  
SERVICE-ORIENTED  
ARCHITECTURE  
3 units**

**Pre-requisite: Consent of the instructor**

This course discusses the implementation of the business processes designed in MIS 181.8 using SOA. SOA is an architectural platform that divides business processes into logical units to reduce redundancy and increase agility. It capitalizes on current information technology to bolster a companies' strategic advantage.

**MIS 189.1  
CURRENT ISSUES AND  
TRENDS IN MANAGEMENT  
INFORMATION SYSTEMS: IT  
TRENDS AND THE E-  
COMMERCE LAW  
3 units**

**Pre-requisite: Consent of instructor**

This course teaches students how to implement the business processes they designed, using a particular technology.. It capitalizes on current information technology—web services, and the like—to bolster companies' strategic advantage.

**MIS 189.2  
CURRENT ISSUES AND  
TRENDS IN MANAGEMENT  
INFORMATION SYSTEMS:  
IT TRENDS AND  
TECHNOLOGIES IN THE  
CORPORATE WORLD  
3 units**

This is a sponsored class by Hewlett Packard that focuses on the concepts and facts about outsourcing.

**MIS 189.3  
CURRENT ISSUES AND  
TRENDS IN MANAGEMENT  
INFORMATION SYSTEMS:  
INFORMATION AND  
COMMUNICATION  
TECHNOLOGIES FOR  
DEVELOPMENT  
3 units**

This is a course on information, knowledge, and the technologies that help us gain access to them. The role of information and information and communication technologies in development are discussed focusing on computers, internet, radio, TV, telephone, and other indigenous information systems.

**MIS 189.4  
APPLIED TECHNOLOGIES IN  
DIGITAL MARKETING  
3 units**

This course invites students to know, understand, and appreciate the basic concepts of digital marketing and its benefits in brand awareness and brand building. It introduces different digital marketing channels, and the application of each to various campaigns. It encourages the discovery of emerging trends in digital marketing.

**MIS 199**

**PRACTICUM**

**3 units**

*Taken in the summer prior to the fourth or final year of study*

This is a work practicum program wherein students apply IT/IS knowledge and problem-solving skills to real-life situations in a professional context. The experience helps them appreciate the higher-level management and IT subjects in their fourth year.

3/F Science Education Complex  
(632) 426-6001 loc. 5680/5681/5682/5683  
fax: (632) 426-6125  
math.sose@ateneo.edu

# MATHEMATICS

**Emmanuel A. Cabral**  
*Chair*

**Faculty**  
*Professor Emeritus*  
Mari-Jo P. Ruiz

**Professors**

Ma. Louise Antonette N. de las Peñas • Queena N. Lee-Chua •  
Bienvenido F. Nebres S.J. • Norman F. Quimpo •  
Catherine P. Vistro-Yu

**Associate Professors**

Evangeline P. Bautista • Emmanuel A. Cabral • Elvira  
P. De Lara-Tuprio • Ian June L. Garces • Reginaldo  
M. Marcelo • Felix P. Muga II • Rafael P. Saldaña •  
Jumela F. Sarmiento

**Assistant Professors**

Maria Alva Q. Aberin • Roden Jason A. David •  
Richard B. Eden • Flordeliza F. Francisco • Agnes D.  
Garciano • Angela Fatima H. Guzon • Job A. Nable •  
Eden Delight B. Provido • Timothy Robin Y. Teng •  
Debbie Marie B. Verzosa

**Instructors**

Olivia F. Ang • Ramil T. Bataller • Jeric C. Briones •  
Jude C. Buot • Ronald J. Calderon • Christian Paul O.  
Chan Shio • Eurlyne J. Domingo • Maria Theresa T.  
Fernando • Mark L. Loyola • Patrick Vincent N.  
Lubenia • Juan Carlo F. Mallari • Jesus Lemuel L.  
Martin • Karl Friedrich C. Mina • Charles R. Repizo •  
Winfer C. Tabares • Anthony R. Zosa

**Assistant Instructors**

Victor Andrew A. Antonio • Hanz Martin C. Cheng •  
Clark Kendrick C. Go • Chrizaldy Neil C. Mañibo

**Lecturers**

Glenn Garfield O. Ang • Jose Nilo G. Binongo •  
Crisselle Iris H. Chong • Paul L. Dayao • Len Patrick  
Dominic M. Garces • Janree Ruark C. Gatpatan •  
Mida R. Guillermo • Jason Martin A. Naniong •  
Norman F. Quimpo • Gerardo S. Salas • Durwin C.  
Santos • Ki Shan T. Tan • Zheng Rong S. Wu

The Department of Mathematics seeks to become a community of mathematicians and mathematics educators that takes leadership in the pursuit of excellence in mathematics teaching, research, and service.

The Mathematics Department aims to

- provide excellent undergraduate and graduate mathematics education to both science and non-science students that will enable them to make significant contributions to the advancement of the country;
- cultivate a culture of research and professionalism that will contribute to the country's progress as well as to the personal growth and development of the members of the Department;
- develop outstanding mathematicians, mathematics educators, and mathematics professionals who will become leaders in shaping the country's future;
- strengthen collaboration between mathematics and mathematics education as well as with other disciplines;
- encourage and advance links with business and industry; and
- increase interest and commitment among students to pursue careers in mathematics.

## BACHELOR OF SCIENCE IN MATHEMATICS

The BS Mathematics program is designed to give the mathematics major a competitive edge in our society by providing a solid foundation in pure mathematics complemented by extensive exposure to the applications of mathematics in the areas of statistics, operation research, and actuarial science. The program sharpens the students' analytic ability and develops certain distinctive habits of mind that have produced leaders in education, the insurance industry, the computer industry, banking and finance, and in the practice of law. Students of outstanding ability are invited by the Mathematics Department to join the Honors Program in their junior or senior year. There are also opportunities for participating in the research projects of the faculty.

### FIRST YEAR

<u>First Semester</u>		<u>Units</u>	<u>Second Semester</u>		<u>Units</u>
EN 11	Communication in English I	3	EN 12	Communication in English II	3
LIT 13	Introduction to Fiction	3	LIT 14	Introduction to Poetry and Drama	3
FIL 11	Sining ng Pakikipagtalastasan sa Filipino I	3	FIL 12	Sining ng Pakikipagtalastasan sa Filipino II	3
MA 18A	Principles of Modern Mathematics I	3	MA 21	Mathematical Analysis I	6
MA 18B	Principles of Modern Mathematics II	3	NATSCI 1A	Natural Science, Lecture	3
AMC 21	Fundamentals of Computing I	3	NATSCI 1B	Natural Science, Laboratory	1
PE 2	Physical Education	(2)	PE 2	Physical Education	(2)
INTAC 1	Introduction to Ateneo Culture and Traditions	(0)	INTAC 2	Introduction to Ateneo Culture and Traditions	(0)
		<i>Total: 18</i>			<i>Total: 19</i>

### SECOND YEAR

<u>Summer</u>	<u>Units</u>
MA 189	Elementary Number Theory
SA 21	Introduction to Sociology and Anthropology
<i>Total: 6</i>	

<u>First Semester</u>		<u>Units</u>	<u>Second Semester</u>		<u>Units</u>
TH 121	An Introduction to Doing a Catholic Theology	3	HI 16/HI 18	Asian History/Western History	3
FIL 14	Panitikan ng Pilipinas	3	FLC	Foreign Language and Culture	3
MA 22	Mathematical Analysis II	3	PSY 101	General Psychology	3
MA 124	Discrete Mathematics I	3	MA 101	Mathematical Analysis III	3
PS 31	Elementary Physics I, Lecture	3	MA 122	Linear Algebra	3
PS 31.1	Elementary Physics I, Laboratory	2	MA 151	Elementary Probability Theory	3
PE 3	Physical Education	(2)	PE 4	Physical Education	(2)
NSTP 1	National Service Training Program	(3)	NSTP 2	National Service Training Program	(3)
		<i>Total: 17</i>			<i>Total: 18</i>

### THIRD YEAR

<u>Summer</u>	<u>Units</u>
EC 102	Basic Economics, Agrarian Reform and Taxation
PS 32	Elementary Physics II, Lecture
PS 32.1	Elementary Physics II, Laboratory
<i>Total: 8</i>	

<u>First Semester</u>		<u>Units</u>	<u>Second Semester</u>		<u>Units</u>
PH 101	Philosophy of the Human Person I	3	PH 102	Philosophy of the Human Person II	3
POS 100	Politics and Governance	3	TH 131	Marriage, Family Life and Human Sexuality in a Catholic Perspective	3
MA 171	Advanced Calculus I	3	HI 165	Rizal and the Emergence of the Philippine Nation	3
MA 185	Modern Geometry	3	MA 121	Fundamental Concepts of Algebra	3
STAT 109	Introduction to Statistical Theory	3	MA 161	Differential Equations	3
MA ELECTIVE		3	MA 196.1	Undergraduate Research Seminar	1
		<i>Total: 18</i>	FREE ELECTIVE		3
					<i>Total: 19</i>

### FOURTH YEAR

<u>First Semester</u>		<u>Units</u>	<u>Second Semester</u>		<u>Units</u>
PH 103/	Philosophy of Religion/		PH 103/	Philosophy of Religion/	
PH 104	Foundations of Moral Value	3	PH 104	Foundations of Moral Value	3
TH 141/	A Theology of the Catholic Social Vision/		TH 141/	A Theology of the Catholic Social Vision/	
TH 151	The Catholic Commitment of Today's Filipino: A Synthesis	3	TH 151	The Catholic Commitment of Today's Filipino: A Synthesis	3
HI 166	Philippine History	3	MA 196.2	Undergraduate Research	3
MA 186	Complex Analysis	3	FREE ELECTIVE		3
MA 195E.27	Seminar on Galois Theory	3	MA ELECTIVE		3
MA ELECTIVE		3	MA ELECTIVE		3
		<i>Total: 18</i>			<i>Total: 18</i>

## BACHELOR OF SCIENCE IN / MASTER OF APPLIED MATHEMATICS, MAJOR IN MATHEMATICAL FINANCE

Mathematical Finance is a flourishing area of modern science, which has rapidly developed into a substantial body of knowledge. The theory of finance has become increasingly mathematical to the point that problems in finance are now driving research in mathematics. Students of the five-year program will graduate with a BS Applied Mathematics Major in Mathematical Finance at the end of the fourth year and a Master of Applied Mathematics Major in Mathematical Finance at the end of the fifth year. The content and curriculum for the program have been worked out jointly with leading practitioners in the field to ensure relevance of the program. The program aims to produce graduates with rigorous foundation in mathematical modeling and economics of financial markets combined with keen knowledge of business practices that will enable them to enter competitively the pool of potential employees of investment banks and other financial institutions. Graduates can also pursue a higher research degree in mathematical finance.

### FIRST YEAR

<u>First Semester</u>	<u>Units</u>	<u>Second Semester</u>	<u>Units</u>
EN 11 Communication in English I	3	EN 12 Communication in English II	3
LIT 13 Introduction to Fiction	3	LIT 14 Introduction to Poetry and Drama	3
FIL 11 Sining ng Pakikipagtalastasan sa Filipino I	3	FIL 12 Sining ng Pakikipagtalastasan sa Filipino II	3
AMC 21 Fundamentals of Computing I	3	MA 21 Mathematical Analysis I	6
MA 18A Principles of Modern Mathematics I	3	MA 124 Discrete Mathematics I	3
MA 18B Principles of Modern Mathematics II	3	PE 2 Physical Education	(2)
PE 1 Physical Education	(2)	INTAC 2 Introduction to Ateneo Culture and Traditions	(0)
INTAC 1 Introduction to Ateneo Culture and Traditions	(0)	<i>Total:</i>	<i>18</i>
<i>Total:</i>	<i>18</i>		

### SECOND YEAR

<u>Summer</u>	<u>Units</u>
PSY 101 General Psychology	3
SA 21 Introduction to Sociology and Anthropology	3
<i>Total:</i>	<i>6</i>

<u>First Semester</u>	<u>Units</u>	<u>Second Semester</u>	<u>Units</u>
TH 121 An Introduction to Doing a Catholic Theology	3	FIL 14 Panitikan ng Pilipinas	3
EC 102 Basic Economics, Agrarian Reform and Taxation	3	NATSCI 1A Natural Science, Lecture	3
ACC 20 Financial Accounting	3	NATSCI 1B Natural Science, Laboratory	1
MA 22 Mathematical Analysis II	3	ACC 35 Managerial Accounting	3
PS 31 Elementary Physics I, Lecture	3	MA 101 Mathematical Analysis III	3
PS 31.1 Elementary Physics I, Laboratory	2	MA 122 Linear Algebra	3
PE 3 Physical Education	(2)	MA 151 Elementary Probability Theory	3
NSTP 1 National Service Training Program	(3)	PE 4 Physical Education	(2)
<i>Total:</i>	<i>17</i>	NSTP 2 National Service Training Program	(3)
		<i>Total:</i>	<i>19</i>

### THIRD YEAR

<u>Summer</u>	<u>Units</u>
HI 16/HI 18 Asian History/Western History	3
FREE ELECTIVE	3
<i>Total:</i>	<i>6</i>

<u>First Semester</u>	<u>Units</u>	<u>Second Semester</u>	<u>Units</u>
PH 101 Philosophy of the Human Person I	3	PH 102 Philosophy of the Human Person II	3
MA 171 Advanced Calculus I	3	TH 131 Marriage, Family Life and Human Sexuality in a Catholic Perspective	3
EC 112 Intermediate Macroeconomic Theory	3	HI 165 Rizal and the Emergence of the Philippine Nation	3
MA ELECTIVE **	3	MA 161 Differential Equations	3
STAT 109 Introduction to Statistical Theory	3	MA 195J.14 Seminar in Topics in Operation Research	3
FIN 105 Financial Management	3		
<i>Total:</i>	<i>18</i>		

AMF 131	Time Series and Forecasting	3
<i>Total:</i>		18

#### FOURTH YEAR

<u>Summer</u>	<u>Units</u>
FLC Foreign Language and Culture	3
FREE ELECTIVE	3
<i>Total:</i>	6

<u>First Semester</u>	<u>Units</u>	<u>Second Semester</u>	<u>Units</u>
PH 103/ Philosophy of Religion /		PH 103/ Philosophy of Religion /	
PH 104 Foundations of Moral Value	3	PH 104 Foundations of Moral Value	3
TH 141/ A Theology of the Catholic Social Vision /		TH 141/ A Theology of the Catholic Social Vision /	
TH 151 The Catholic Commitment of Today's		TH 151 The Catholic Commitment of Today's	
Filipino: A Synthesis	3	Filipino: A Synthesis	3
HI 166 Philippine History	3	POS 100 Politics and Governance	3
MA 165 Scientific Computing I	3	MA 166 Scientific Computing II	3
MA 187 Real Analysis	3	MA 195A.6 Seminar on Partial Differential Equations	3
FIN 121 Investment Management	3	MA ELECTIVE	3
<i>Total:</i>	18	<i>Total:</i>	18

#### FIFTH YEAR

<u>Summer</u>	<u>Units</u>
AMF 235 Advanced Statistical Methods	3
AMF 270 Introduction to Options	3
<i>Total:</i>	6

<u>First Semester</u>	<u>Units</u>	<u>Second Semester</u>	<u>Units</u>
AMF 240 Stochastic Calculus I	3	AMF 241 Stochastic Calculus II	3
AMF 271 Financial Derivatives	3	AMF 272 Risk Management	3
AMF 280 Advanced Probability and Martingales	3	AMF 291 Mathematical Finance Project	3
AMF 290 Practitioners Seminar	3	AMF ELECTIVE	3
AMF ELECTIVE	3	AMF ELECTIVE	3
<i>Total:</i>	15	<i>Total:</i>	15

Total Number of Undergraduate Units: 162

Total Number of Graduate Units: 36

Total Number of Academic Units: 198

Curriculum Effective Freshman Batch SY 2011-2012

## COURSE OFFERINGS

### AMC 21

#### FUNDAMENTALS OF COMPUTING I

**3 units**

This is a course on the fundamental computing concepts and their importance to real world applications. Topics include developments in computing paradigms, programming language design and evolution, algorithms, objects and classes, fundamental data types, decisions, functions, iterations, arrays, vectors, matrices, files, and graphics.

### AMC 22

#### FUNDAMENTALS OF COMPUTING II

**3 units**

**Pre-requisite:** AMC 21  
This course studies additional concepts in scientific and mathematical computing. Topics include basic data structures, transformations, and applications; and an introduction to numerical and symbolic computation, cellular automata, genetic algorithms, neural networks, and high-performance computing. Emphasis is on structured

programming and software design principles.

### AMC 31

#### THEORY OF DATABASES

**3 units**

**Pre-requisite:** MA 124

This course is an introduction to database analysis, design, and implementation techniques. Topics include data organization, relational algebra, functional dependencies, normalization and query optimization, data mining, and an overview of current trends in database systems and applications.



**AMC 32**  
**SYMBOLIC LOGIC AND**  
**MECHANICAL THEOREM**  
**PROVING**

**3 units**

**Pre-requisite:** MA 124

This course is an introduction to symbolic logic and mechanical proving techniques, as well as specific applications of symbolic logic. Topics include propositional and first-order logic, Herbrand's theorem, Resolution Principle, semantic resolution, linear resolution, the equality relation, and proof procedures based on Herbrand's Theorem.

**AMC 44A**  
**PROJECT SEMINAR I**  
**1 unit**

**Pre-requisites:** 12 units of AMC Electives

This course integrates the principles learned in previous AMC courses. Students write and present a report on an appropriate problem of a theoretical nature or prepare a technical thesis on a project directed toward the solution of a problem in the public or private sector.

**AMC 44B**  
**PROJECT SEMINAR II**  
**2 units**

**Pre-requisites:** 12 units of AMC Electives

This course integrates the principles learned in previous AMC courses. Students write and present a report on an appropriate problem of a theoretical nature or prepare a technical thesis on a project directed toward the solution of a problem in the public or private sector.

**AMC 124**  
**MATH FOR**  
**COMPUTER SCIENCE I**

**3 units**

**Pre-requisites:** MA 18A and MA 18B

This is a course on fundamental discrete and combinatorial methods. The course covers logic and counting techniques such as permutations and combinations, inclusion and exclusion principles, and generating functions.

**AMC 125**  
**MATH FOR**  
**COMPUTER SCIENCE II**  
**3 units**

**Pre-requisite:** AMC 124

This is an integrated course on number theory and abstract algebra. It gives an introduction to algebraic structures such as groups, rings, and finite fields. Emphasis is on topics that are needed for computing and coding theory.

**AMF 131**  
**TIME SERIES AND**  
**FORECASTING**  
**3 units**

**Pre-requisites:** STAT 109, MA 122

This course is an introduction to the practice of regression and time series analysis. Topics include regression analysis, stationary processes, autoregressive and moving average processes, non-stationary time series models, forecasting, and model identification.

**AMF 235**  
**ADVANCED STATISTICAL**  
**METHODS**  
**3 units**

**Pre-requisite:** AMF 131, MA 122

The course is the continuation of Time Series Analysis for AMF majors. It discusses topics such as heteroscedastic models, unit roots, vector autoregressive models, and cointegration. It also analyzes some financial times series data to illustrate key concepts and methods.

**AMF 240**  
**STOCHASTIC CALCULUS I**  
**3 units**

**Pre-requisites:** Introduction to Finance, Probability Theory, Introduction to Partial Differential Equations

This course introduces stochastic modeling and stochastic calculus. Topics include probability concepts, discrete models, Cox-Ross-Rubinstein model, Brownian motion, Ito's Lemma, stochastic differential equations, martingale techniques, and advanced numerical methods.

**AMF 241**  
**STOCHASTIC CALCULUS II**  
**3 units**

**Pre-requisite:**

This course offers advanced topics such as the Feynman-Kac Formula, the Black-Scholes Partial Differential Equation, the Girsanov Theorem, and term-structure models.

**AMF 270**  
**INTRODUCTION TO**  
**OPTIONS**  
**3 units**

**Pre-requisites:** MA 151, FIN 105

This course is an introduction to financial derivatives. The entire course deals with options: basic elements, types, trading strategies, pricing and valuation. It presents methods of pricing and valuation such as binomial tree, Black-Scholes formula and Monte Carlo simulation.

**AMF 271**  
**FINANCIAL DERIVATIVES**  
**3 units**

**Pre-requisite:** AMF 270

This course is a continuation of AMF 270. It provides a thorough discussion of different financial derivatives products. It includes modeling, analysis and valuation of these derivatives.

**AMF 272**  
**RISK MANAGEMENT**  
**3 units**

**Pre-requisite:** AMF 271

This course focuses on quantitative tools used in measurement, control and management of financial risks such as market risk, credit risk and operational risk. The last part presents the regulatory framework for risk management in financial institutions.

**AMF 280**  
**ADVANCED PROBABILITY**  
**AND MARTINGALES**  
**3 units**

**Pre-requisites:** MA 151 and MA 187

This course discusses important results such as Kolmogorov's Law of Large Numbers and the Three-Series Theorem by Martingales techniques, and the Central Limit Theorem via the use of characteristic functions. It assumes certain key results from measure theory.

**AMF 290**  
**PRACTITIONERS' SEMINAR**  
**3 units**

**Pre-requisites:** AMF 270

This course is an analysis of financial statements of listed companies to identify financial risks/exposures of companies, estimate current exposure and potential exposure, and recommend solutions for consideration of management and shareholders.

**AMF 291**  
**MATHEMATICAL FINANCE**  
**PROJECT**  
**3 units**

**Pre-requisite:** AMF 290

This course requires students to produce possible research reports/on-the-job project on: 1) Company Risk Management Exercise; 2) Analysis/Research on New Quantitative Approach; 3) Emerging Derivative Products;

and/or 4) Practicum Development of a Quantitative Trading Model for Philippine Markets.

**MA 1**  
**INTRODUCTION TO**  
**COLLEGE ALGEBRA**  
**3 units (non-academic)**

This is a preparatory course for students who do not have the required background for MA 11. It consists of an intensive review of polynomials and rational expressions, solving linear equations and inequalities, factoring and other fundamental operations in algebra that are assumed in MA 11.

**MA 1.1**  
**PREPARATORY COURSE TO**  
**COLLEGE ALGEBRA**  
**3 units (non-academic)**

This is a basic, remedial, bridging course for students who are not sufficiently prepared for MA 1 or MA 11. Topics include operations on polynomials, simplification of algebraic operations, laws of exponents, radical expressions, special products and factoring, and linear and quadratic inequalities.

**MA 1.2**  
**PREPARATORY COURSE TO**  
**COLLEGE ALGEBRA II**  
**3 units (non-academic)**

**Pre-requisite:** MA 1.1

The course is a continuation of the intensive review of the high school mathematics necessary for MA 11. Topics include: integral and rational exponent, operations on radicals, absolute value and order, linear and quadratics equations and inequalities.

**MA 11**  
**MODERN MATHEMATICS I**  
**3 units**

This is the first of a series of Math courses taken by non-science majors. It discusses the different types of real-valued functions including linear functions,

quadratic functions, polynomial and rational functions, radical functions, and exponential and logarithmic functions.

**MA 12**  
**MODERN MATHEMATICS II**  
**3 units**

**Pre-requisite:** MA 11

This is a course on mathematics as a tool for analysis, decision making, and design creation. Topics include applications of mathematics in management, social science, and the arts in areas such as clock arithmetic and applications, analysis of data, election theory, and geometry and shapes.

**MA 18A**  
**PRINCIPLES OF MODERN**  
**MATHEMATICS I**  
**3 units**

This is the first part of a 6-unit pre-calculus course for most science and engineering majors. It is a preparation for calculus. Topics include equations and inequalities, conic sections, functions and linear, quadratic, polynomial and rational, and exponential and logarithmic functions.

**MA 18B**  
**PRINCIPLES OF MODERN**  
**MATHEMATICS II**  
**3 units**

**Pre-requisites:**

**a. None, if taken simultaneously with MA 18A**

**b. MA 11 or MA 18A, if taken separately**

This is the second part of a 6-unit pre-calculus course for most science and engineering majors. The course is a preparation for calculus. Topics include trigonometric functions and applications, mathematical induction, sequences and series, and polar coordinates.

**MA 19  
APPLIED CALCULUS FOR  
BUSINESS**

**6 units**

**Pre-requisite: MA 11**

This is a 6-unit Calculus course for BS Management majors. Topics include mathematical modeling, limits and continuity, derivatives and differentiation, integrals and integration, and functions of more than one variable.

**MA 20  
CALCULUS FOR  
ECONOMISTS**

**6 units**

**Pre-requisite: MA 11**

This is a 6-unit calculus course taken primarily by Economics, Management Economics, and Management Information Systems majors. Topics include limits and continuity, the derivative, differentiation, antidifferentiation, the definite integral, the fundamental theorem of calculus, and calculus of functions of more than one variable.

**MA 20.2  
CALCULUS FOR COMPUTER  
SCIENCE**

**6 units**

**Pre-requisites: MA 18A and MA 18B**

This is a calculus course for Computer Science majors. Topics include limits and continuity, derivatives and differentials, anti-differentiation, the definite integral, and functions of more than one variable. Discussions include applications to biology, chemistry, physics, as well as business and economics.

**MA 20.3A  
APPLIED CALCULUS FOR LIFE  
SCIENCES I**

**3 units**

**Pre-requisite: MA 18A or MA 11**

This first of two 3-unit calculus courses taken primarily by life sciences majors provides an introduction to differential calculus and its applications such as rate of change, related rates, graphing and optimization. Topics include limits and continuity, derivatives, differentials and applications of the derivative.

**MA 20.3B  
APPLIED CALCULUS FOR LIFE  
SCIENCES II**

**3 units**

**Pre-requisite: MA 20.3A**

This is a course on graphs, properties, and derivatives of trigonometric functions; integration, techniques of integration; multivariable calculus; and their applications, such as area, net change, linear regression, and optimization. Emphasis is on applications to life sciences.

**MA 21  
MATHEMATICAL  
ANALYSIS I**

**6 units**

**Pre-requisites: MA 18A and MA 18B**

This is the first of a series of three calculus courses taken by science and engineering majors. It focuses on differential and integral calculation of one variable. Topics include: limits and continuity, derivatives and differentiation, applications of derivatives, anti-differentiation, definite integral, and applications of integration.

**MA 22  
MATHEMATICAL  
ANALYSIS II**

**3 units**

**Pre-requisite: MA 21**

This second in a series of three calculus courses focuses on integration, sequences and infinite series, and functions of several variables. Topics include techniques of integration,

improper integrals, differential equations, tests for convergence, power series, functions of several variables, partial derivatives, and multiple integrals.

**MA 101  
MATHEMATICAL  
ANALYSIS III**

**3 units**

**Pre-requisite: MA 22**

This third in a series of three calculus courses generalizes the functions of one or several variables to the calculus of vector-valued functions. Topics include vectors, geometry of curves and surfaces, directional derivatives, vector fields, line and surface integrals, Green's Theorem, Stoke's Theorem, and Gauss' Divergence Theorem.

**MA 121  
FUNDAMENTAL CONCEPTS  
OF ALGEBRA**

**3 units**

**Pre-requisite: MA 22**

This course is an introduction to abstract algebra, emphasizing algebraic structures and their associated homomorphisms. Discussions of theorems and proofs are rigorous and complete. Topics include groups and group homomorphisms, permutation groups, subgroups and normal subgroups, factor groups, rings, and integral domains and fields.

**MA 122  
LINEAR ALGEBRA**

**3 units**

**Pre-requisite: MA 21**

This is a linear algebra course for mathematics and economics (honors) majors. Topics include matrices and matrix operations, solutions of systems of linear equations, vector spaces and linear transformations, and eigenvalues and diagonalization of matrices.

**MA 124****DISCRETE MATHEMATICS I****3 units****Pre-requisite:** MA 21

This course is an introduction to foundational concepts along with fundamental discrete and combinatorial methods necessary for undergraduate mathematics. Topics include counting techniques, the principle of inclusion and exclusion generating functions sets, logic, methods of proof, and relations and functions.

**MA 125****DISCRETE MATHEMATICS II****3 units****Pre-requisite:** MA 124

This is the second of a two-part course on discrete mathematics. This course is an integrated course on number theory and abstract algebra. It includes the study of the properties of algebraic structures such as groups, rings and finite fields.

**MA 151****ELEMENTARY PROBABILITY THEORY****3 units****Pre-requisite:** MA 22

This course is an introduction to the science and mathematics of chance with emphasis on theoretical probability and its diverse applications. Topics include basic probability theory, the random variable and its probability distribution function, mathematical expectation, special types of probability distributions, and moment-generating functions.

**MA 152****LINEAR PROGRAMMING AND ELEMENTARY GAME THEORY****3 units****Pre-requisite:** MA 122

This course is an introduction to the basic concepts of linear programming and game theory,

and the connection between the two. Focus is on the minimax theory which is widely used for finite and continuous games, games in extensive form, and games against nature.

**MA 161****DIFFERENTIAL EQUATIONS****3 units****Pre-requisite:** MA 22

This course is an introduction to the theory of ordinary differential equations and dynamical systems. Topics include phase portrait of autonomous systems, linearization at fixed point, and stability analysis of equilibrium solutions. Models of some physical phenomena using ordinary differential equations are also discussed.

**MA 165****SCIENTIFIC COMPUTING I****3 units****Pre-requisite:** MA 122

This course is an introduction to numerical analysis and scientific computing. Topics include analysis of errors, sequential convergence, fixed-point theory, numerical solution to linear and nonlinear systems of equations, numerical solutions to ordinary differential equations, and the matrix eigenvalue problem.

**MA 166****SCIENTIFIC COMPUTING II****3 units****Pre-requisite:** MA 165

This course is a continuation of Scientific Computing I, with emphasis on numerical solutions to partial differential equations. Topics include approximation theory and interpolation, finite-difference schemes for boundary value problems, the finite-element method, the spectral collocation method, and wavelet methods.

**MA 171****ADVANCED CALCULUS I****3 units****Pre-requisite:** MA 101

This is a course on advanced calculus in preparation for higher courses in analysis such as real analysis, topology, measure theory, stochastic calculus, and advanced probability theory. The course covers basic properties of real numbers and functions on the set of real numbers, as well as integration theory.

**MA 182****FOUNDATIONS OF MATHEMATICS****3 units****Pre-requisite:** MA 121

This course on the developments in mathematics provides an understanding of the structures and processes of mathematics. Topics include the axiomatic method; the calculus of propositions and functions; consistency, independence, and completeness of formal systems; mathematical structures; and schools of mathematical thought.

**MA 185****MODERN GEOMETRY****3 units****Pre-requisite:** MA 122

This course is a study of other types of geometries beyond Euclidean Geometry. Topics include consequences of the parallel postulate, hyperbolic and elliptic geometries, finite geometries, projective geometries, and transformation geometry.

**MA 186****COMPLEX ANALYSIS****3 units****Pre-requisite:** MA 171

This is a course on the theory of complex variables. Topics include algebra, geometry and topology of complex numbers, analytic and harmonic functions, the Cauchy-Riemann equations, complex integration, the Cauchy-Goursat

theorem, the Morera and Liouville theorems, the Taylor and Laurent series, and singularities and residues.

**MA 187  
REAL ANALYSIS**

**3 units**

**Pre-requisite: MA 171**

This is an introductory course to real analysis. The first part is a review of the properties of the set of real numbers and some topological concepts. This is followed by an introduction to Lebesgue measure and integration, and  $L^p$ -spaces.

**MA 189  
ELEMENTARY NUMBER  
THEORY**

**3 units**

This is an introduction to the fundamental concepts in number theory as well as the different methods of proof, such as proof by mathematical induction, infinite descent, etc. It also discusses applications of number theory to other branches of mathematics such as cryptography.

**MA 195A.2  
SEMINAR IN REAL ANALYSIS  
II**

**3 units**

**Pre-requisites: MA 122 and MA 186**

This course is an introduction to some of the applications of real analysis. Topics may include one or two of the following: approximation by polynomials, Fourier series, or wavelets.

**MA 195A.6  
SEMINAR ON PARTIAL  
DIFFERENTIAL EQUATIONS**

**3 units**

**Pre-requisite: MA 161**

This is an introductory course on the theory and applications of partial differential equations. Topics include first-order partial differential equations, second-

order partial differential equations, separation of variables and the Sturm-Liouville problem, transform methods and Green's functions, and introduction to nonlinear partial differential equations.

**MA 195A.8  
SEMINAR IN COMPLEX  
ANALYSIS II**

**3 units**

**Pre-requisite: MA 186**

This course develops the theory of complex functions using power series. Topics include global Cauchy integral theorem, Picard's two theorems, and the Riemann mapping theorem.

**MA 195A.15  
SEMINAR IN NUMERICAL  
ANALYSIS**

**3 units**

**Pre-requisites: MA 21 and AMC 21**

This course is an introduction to numerical methods. Topics include convergence and stability of numerical methods, computer arithmetic and errors, root finding methods, direct and iterative methods to solve systems of linear equations, and numerical solutions to parabolic partial differential equations.

**MA 195A.20  
SEMINAR IN INTEGRATION  
THEORY**

**3 units**

**Pre-requisite: MA 187**

This course is a survey of the different integrals studied in real analysis – Riemann, Lebesgue, and Henstock. Focus is on Henstock. Topics include definitions of the stated integrals and their properties, convergence theorem, and the Stieltjes integrals.

**MA 195A.24  
AN INTRODUCTION TO  
SINGULARITY THEORY**

**3 units**

**Pre-requisites: MA 121, MA 122 and MA 171 or equivalent**

This course studies jets, regular values and smooth manifolds, envelopes, unfoldings, transversality, singular points, and generic surfaces; geometry of the hyperbolic umbilic and double cusp catastrophes, and group singularity ADE classification of Arnold. The course also covers caustics by reflexion and biographical morphogenesis.

**MA 195A.25  
NONLINEAR DYNAMICAL  
SYSTEMS**

**3 units**

**Pre-requisites: MA 101, MA 122 and MA 161 or equivalent**

This course is a study on the dynamics induced by iteration of a nonlinear function, and by the solutions of nonlinear ordinary differential equations. Emphasis is on the use of tools based on the ideas of symbolic dynamics, structural stability, and chaos.

**MA 195A.28  
COMPUTATIONAL  
HOMOLOGY**

**3 units**

**Pre-requisite: MA 188 or equivalent**

This course develops algebraic topological tools designed specifically for complexes built from cubical sets upon which all computer data files are based. Among course applications are analyses of medical imaging data, time series and dynamical systems.

**MA 195E.1  
SEMINAR ON TOPICS FROM  
ALGEBRA I**

**3 units**

This course is an introduction to group theory and special topics in



group theory including isometries in  $R$ ,  $R^2$ , and  $R^3$ , dihedral and symmetry groups, rotation groups, frieze groups and crystallographic groups.

**MA 195E.19  
SEMINAR IN  
COMBINATORIAL DESIGNS I  
3 units**

This course is an introduction to Design Theory. Topics include some of the basic concepts of block designs emphasizing methods of constructing new designs; other combinatorial structures such as Latin squares and difference sets; symmetric designs, resolvable designs, Hadamard matrices, Latin squares, and difference sets.

**MA 195E.27  
SEMINAR ON GALOIS  
THEORY  
3 units**

**Pre-requisite:** MA 121

This course discusses classical Galois Theory. Topics include polynomial rings, extension fields, finite fields, and the fundamental theorem of Galois theory; and applications like the proof of the impossibility of trisecting an angle and doubling the cube and the insolubility of the quintic equation.

**MA 195F.1  
SEMINAR ON THE  
FOUNDATIONS AND  
STRUCTURES OF  
MATHEMATICS  
3 units**

**Pre-requisites:** Calculus and Basic Algebra

This is a course on the high and low points of mathematics history. Topics include contemporary issues in the foundations and structures of mathematics, from the structuralism of various foundationalist perspectives to the poststructuralism of

postmodern philosophy of mathematics.

**MA 195F.2  
SEMINAR ON THE HISTORY  
OF MATHEMATICS  
3 units**

This course on the history of mathematics follows the development of mathematics identifying political, sociological, economic, and scientific forces that have shaped mathematical thinking, recognizing individuals whose accomplishments have driven this development. Selected mathematical techniques and procedures which have led to mathematical advances are discussed.

**MA 195G.1  
SEMINAR IN PROBLEM  
SOLVING TECHNIQUES I  
3 units**

This is a course on non-routine mathematical problem solving. Students learn techniques such as methods of proof, symmetry, the pigeonhole principle, and special topics which include algebra, number theory, generating functions, geometry, combinatorics, and probability.

**MA 195G.2  
SEMINAR IN METHODS OF  
PROOF  
3 units**

This is a course on mathematical proofs. It includes tools and techniques used to prove mathematical theorems, and preparation to writing mathematical proofs. Mathematical concepts and results helpful in proving other mathematical statements are also studied.

**MA 195G.3  
SEMINAR IN PROBLEM  
SOLVING TECHNIQUES II  
3 units**

**Pre-requisite:** MA 195G.1

This course is an extension of MA 195G.1. The course discusses the application of the basic problem solving techniques applied to specialized topics such as complex analysis, real analysis, and differential equations, among others. This is primarily for pure and applied mathematics majors.

**MA 195H.3  
SEMINAR IN TOPICS  
FROM ACTUARIAL  
MATHEMATICS I  
3 units**

**Pre-requisites:** Integral Calculus, Theory of Interest

This course is an introduction to the basic concepts in Actuarial Science. Different insurance models that are fundamental to the practice of actuarial science are discussed in detail. Topics include survival distributions and life tables, life insurance, life annuities, and net premiums.

**MA 195H.4  
SEMINAR IN TOPICS  
FROM ACTUARIAL  
MATHEMATICS II  
3 units**

**Pre-requisite:** MA 195H.3

This course is a continuation of MA 195H.3. It provides students with computational methods necessary for the insurance business. Topics include Net Premium Reserves, Multiple Life Functions, Multiple Decrement Models, and Insurance Models including expenses and Nonforfeiture Benefits and Dividends.

**MA 195H.5  
SEMINAR IN RISK THEORY  
3 units**

**Pre-requisites:** MA 101 and MA 151

This is a course on Risk Theory. It includes discussions on how insurance systems are designed to reduce the adverse financial effects of random events and construction of other collective

risk models for use with insurance systems.

**MA 195H.9  
SEMINAR ON THEORY OF  
INTEREST**

**3 units**

**Pre-requisite:** MA 22

This course is an introduction to the underlying formulas and theory regarding interest and interest rates and how they are used in financial calculations. It covers the material for the Interest Theory component of the second Actuarial Exam.

**MA 195I  
SEMINAR IN NUMBER  
THEORY**

**3 units**

**Pre-requisite:** MA 18

This is a course on basic classical number theory and its applications. Topics include the greatest common divisor, linear diophantine equations, fundamental theorem of arithmetic, congruences, Chinese remainder theorem, systems of linear congruences, Wilson's theorem, Fermat's little theorem, Euler's phi-function, primitive roots, and some applications.

**MA 195J  
SEMINAR IN GRAPH THEORY  
AND  
COMBINATORIAL THEORY**

**3 units**

**Pre-requisite:** MA 121

This course is an introduction to the application of computational techniques to graph theory and combinatorics problems. Topics include basic coding theory, associated designs, number theory, cryptography and computational complexity; and methods of linear algebra in combinatorics and graph theory.

**MA 195J.2  
SEMINAR ON GRAPH  
THEORY**

**3 units**

This is a course on elementary graph theory. Topics include the basic concepts like graphs, subgraphs, trees, hamiltonian graphs, and eulerian graphs. It also covers additional topics such as vertex and/or edge colorings, matchings, connectivity, graph decomposition, planarity, and applications to networks.

**MA 195J.3  
SEMINAR ON GAME THEORY**

**3 units**

**Pre-requisite:** MA 151

This is a course on the theory of matrix game. Topics include the minimax theorem for finite and continuous games, games in extensive form, the connection between game theory and linear programming, and introduction to games against nature.

**MA 195J.8  
SEMINAR IN CODING  
THEORY**

**3 units**

**Pre-requisites:** MA 121 and MA 122

This course is an introduction to Coding Theory. Topics include error-correcting codes; popular bounds such as the sphere-packing, Greisner, singleton, and Gilbert-Varshamov bounds; and special families of codes like the Reed-Muller, Hamming, Golay, Bose-Chaudhuri-Mesner, self dual codes, and quadratic residue codes.

**MA 195J.12  
SEMINAR IN  
COMBINATORIAL  
MATHEMATICS**

**3 units**

This course discusses Combinatorics, the study of arrangements, patterns, designs and configurations. Topics include permutations and combinations, inclusion-exclusion, recursion, generating functions, and other combinatorial techniques that

have far-reaching applications in different fields, such as computer-science, management science, electrical engineering, genetics, chemistry, and even political science.

**MA 195J.14  
SEMINAR ON ADVANCED  
TOPICS IN OPERATIONS  
RESEARCH II**

**3 units**

**Pre-requisites:** MA 22, MA 122, MA 151

This is the first course on Operations Research. Topics include: the Simplex Method, Dynamic Programming, both discrete and continuous models, Queuing Theory, Simulation Modeling; Network Optimization, including Minimal Spanning Tree, Shortest Route and Maximal Flow models.

**MA 195J.17  
SEMINAR ON TOPICS IN  
OPERATIONS RESEARCH**

**3 units**

**Pre-requisites:** MA 195J.14

This is a course on topics in Operations Research such as variations and extensions of Linear Programming; the transportation problem, the assignment problem, integer programming algorithms, project planning and scheduling; Markov chains and Markov decision process, the traveling salesman problem, and the vehicle routing problem.

**MA 195J.18  
PRINCIPLES OF  
CRYPTOGRAPHY**

**3 units**

**Pre-requisites:** AMC 125 or MA 121 or MA 125

This course surveys classical, conventional and public cryptography, the encryption and decryption algorithms involved as well as their mathematical foundation. Authentication and security issues in electronic mail,



e-commerce, e-passport, cellular phone, and ATM card applications are discussed.

**MA 195K.1  
SEMINAR IN COMPUTER  
MODELING AND  
SIMULATION**

**3 units**

**Pre-requisite:** MA 195A.15

This is an introductory course on fundamental concepts of computer modeling and simulation. Students are exposed to different modeling and simulation techniques involving scientific computing and visualization. It also allows students to work with several mathematical and computational models in the natural and allied sciences.

**MA 195K.2  
SEMINAR IN COMPUTER  
RELATED MATHEMATICS**

**3 units**

**Pre-requisite:** MA 22

This course is an introduction to computational mathematics and scientific computing using mathematical software such as *Mathematica*.

**MA 195L.1  
SEMINAR: INTRODUCTION  
TO FINANCIAL MATH I**

**3 units**

**Pre-requisite:** MA 151

This is an elementary introduction to the mathematics of financial derivatives. Topics include the properties of those derivatives that are commonly encountered in practice and the general framework within which all derivatives can be valued and hedged. Emphasis is on the Black-Scholes Option Pricing Model.

**MA 195L.7  
SEMINAR: FINANCIAL  
DERIVATIVES**

**3 units**

**Pre-requisite:** MA 151

This course deals with the theories and applications of financial derivatives. These are securities whose value is derived from some other security or commodity, such as forwards, futures, swaps, options, and their combinations. It covers the theory of derivative security pricing and its real-world application.

**MA 195S.2  
SEMINAR: REGRESSION AND  
TIME SERIES ANALYSIS**

**3 units**

**Pre-requisites:** STAT 109 and  
MA 122

This is a course on regression analysis, an introductory course in linear statistical modeling. The course covers positive-definite matrices, multivariate normal distribution, distributions of quadratic forms, ordinary least-square estimation, hypothesis testing, simple and multiple linear regression, model validation and some transformations, and analysis of residuals.

**MA 195S.5  
SEMINAR: ENVIRONMENT  
APPLICATIONS OF  
COMPUTER MODELING AND  
SIMULATION**

**3 units**

**Pre-requisite:** MA 195K.1 or  
MA 195K.2 or AMC 154 or  
equivalent

This course is an introduction to environmental applications of computer modeling and simulation. Topics include a review of fundamental modeling and simulation techniques, overview of different environmental software (RAINS-ASIA, ER Mapper, ARC View/ARC Info, IDRISI, etc.), and applications and case studies.

**MA 195S.7  
SEMINAR: ADVANCED  
PROBABILITY AND  
MARTINGALES**

**3 units**

**Pre-requisites:** MA 171 and  
STAT 109

This course on Probability Theory proves important results such as Kolmogorov's Law of Large Numbers and the Three-Series Theorem by martingales techniques, and the Central Limit Theorem via the use of characteristic functions.

**MA 196.1  
UNDERGRADUATE  
RESEARCH SEMINAR**

**1 unit**

This course is an introduction to various mathematical topics through short seminars delivered by faculty members of the Mathematics Department. The course provides students with an overview of the different areas in Mathematics and is a preparation for MA 196.2. The course also includes a training on LaTeX – a program used for typesetting mathematical papers.

**MA 196.2  
UNDERGRADUATE  
RESEARCH**

**3 units**

**Pre-requisite:** MA 196.1

In this is research course, the student or group of students is guided by the adviser to the production of a final output which may be a research paper in thesis form on an appropriate problem of a theoretical nature or a project directed towards the solution of a problem of an applied nature. The paper may be (but is not limited to) an expository article.

**MA 197  
PAPER FOR MATHEMATICS  
HONORS PROGRAMS**

**3 units**

This is a course for mathematics majors with excellent academic performance. Under the supervision of a faculty member of the department, students conduct mathematical research and present a mini-thesis as the required output. Students who complete the course graduate with a BS Mathematics (Honors) degree.

**STAT 105**  
**STATISTICS FOR LIFE**  
**SCIENCES**

**3 units**

**Pre-requisite: MA 18A or  
MA 11**

This is a course on the basics of descriptive statistics, counting techniques, probability and distributions; as well as necessary statistical testing needed for life sciences analysis such as confidence intervals, hypothesis testing, goodness-of-fit test, ANOVA tables and regression.

**STAT 107**  
**INTRODUCTION TO**  
**STATISTICAL ANALYSIS**

**3 units**

**Pre-requisite: MA 20**

*For non-mathematics majors*

This course is an introduction to the basic concepts and procedures of statistics and statistical research. Topics include descriptive statistics, probability theory, sampling distributions, estimation and hypothesis testing, regression and correlation, and analysis of variance.

**STAT 109**  
**INTRODUCTION TO**  
**STATISTICAL THEORY**

**3 units**

**Pre-requisite: MA 151**

*For Mathematics majors*

This course is an introduction to the theory of statistical inference for population parameters through a theoretical and mathematical approach of likelihood and general decision

theoretic framework. Topics covered are a medley of concepts and methods including descriptive statistics, sampling distributions, estimation theory, tests of hypothesis, and simple linear regression and correlation.



3/F Faura Hall  
(632) 426-6001 loc. 5690/5691  
fax: (632) 426-1043  
physics.ose@admu.edu  
www.ateneo.edu/ls/ose/physics

# PHYSICS

**James Bernard B. Simpás**  
*Chair*

**Faculty  
Professor**

Daniel J. McNamara, S.J

**Associate Professors**

Benjamin O. Chan  
Eduardo C. Cuansing, Jr.  
Raphael A. Guerrero  
Gemma Teresa T. Narisma  
Jose Ramon T. Villarin, S. J.

**Assistant Professors**

Ivan B. Culaba  
Nofel D. Lagrosas  
James Bernard B. Simpás  
Quiron M. Sugon, Jr.

**Instructors**

Clint Dominic G. Bennett  
Ma. Obiminda L. Cambaliza  
Patricio P. Dailisan  
Ramon M. Delos Santos  
Johanna Mae M. Indias  
Christian Lorenz S. Mahinay  
Joel T. Maquiling

**Assistant Instructors**

Jose Ramon Gresmin A. Batiller  
Cindy C. Cease  
Michael Paul A. Jallorina  
John Keith V. Magali  
Lyndon Mark P. Olaguera

**Lecturers**

Mariano A. Estoque  
Jerrold J. Garcia

The Department of Physics envisions a Philippine society that recognizes Physics as a fundamental component of national development. As a collegial community of scientists and scholars, it is committed to play a key role in physics research and education in the Philippines and the Asian Region through the Ignatian tradition of excellence. We see a Department that shapes graduates to be leaders responsive to the development needs of the country and the region.

The Department aims to be a center of excellence in the fields of Physics Education, Photonics, Materials Science and Atmospheric Physics, committing ourselves to:

- provide students relevant education and an environment of research for their complete formation as scientists for the country and the region;
- establish vibrant partnerships with educational institutions in Physics education and research;
- link with industry and government in Physics research and training programs; and
- participate in interdisciplinary research.

## BACHELOR OF SCIENCE IN PHYSICS

This is a 5-year program for students interested in acquiring the necessary knowledge and skills to do research in either theoretical or experimental physics. The aim is for students to gain a more in-depth familiarity with some of the most important concepts in physics and also develop skills in performing physics experiments. The program requires a submission and successful defense of a research thesis during the fifth year. The thesis can either be in theoretical or experimental physics.

### FIRST YEAR

<u>First Semester</u>		<u>Units</u>	<u>Second Semester</u>		<u>Units</u>
EN 11	Communication in English I	3	EN 12	Communication in English II	3
LIT 13	Introduction to Fiction	3	LIT 14	Introduction to Poetry and Drama	3
FIL 11	Sining ng Pakikipagtalastasan sa Filipino I	3	FIL 12	Sining ng Pakikipagtalastasan sa Filipino II	3
MA 18A	Principles of Modern Mathematics I	3	MA 21	Mathematical Analysis I	6
MA 18B	Principles of Modern Mathematics II	3	PS 51	Physics I, Lecture	3
CE 21	Introduction to Computing	3	PS 51.1	Physics I, Laboratory	1
PE 1	Physical Education	(2)	PE 2	Physical Education	(2)
INTAC 1	Introduction to Ateneo Culture and Traditions	(0)	INTAC 2	Introduction to Ateneo Culture and Traditions	(0)
		<b>Total: 18</b>			<b>Total: 19</b>

### SECOND YEAR

<u>First Semester</u>		<u>Units</u>	<u>Second Semester</u>		<u>Units</u>
TH 121	An Introduction to Doing a Catholic Theology	3	FIL 14	Panitikan ng Pilipinas	3
MA 22	Mathematical Analysis II	3	PS 126	Physical Mathematics I	3
PS 52	Physics II, Lecture	3	PS 127	Physical Mathematics II	3
PS 52.1	Analytical Physics II, Laboratory	1	PS 53	Physics III, Lecture	3
SA 21	Introduction to Sociology and Anthropology	3	PS 53.1	Physics III, Laboratory	1
CH 7	General Chemistry I, Lecture	3	BI 15	General Biology, Lecture	3
CH 8	General Chemistry I, Laboratory	2	BI15.1	General Biology, Laboratory	2
PE 3	Physical Education	(2)	PE 4	Physical Education	(2)
NSTP 1	National Service Training Program	(3)	NSTP 2	National Service Training Program	(3)
		<b>Total: 18</b>			<b>Total: 18</b>

### THIRD YEAR

<u>First Semester</u>		<u>Units</u>	<u>Second Semester</u>		<u>Units</u>
PSY 101	General Psychology	3	POS 100	Politics and Governance	3
HI 16/18	Asian/Western History (Choose One)	3	EC 102	Basic Economics, Agrarian Reform and Taxation	3
FLC	Foreign Language and Culture	3	PS 101	Classical Mechanics, I	3
PS 54	Physics IV, Lecture	3	PS 146	Physical Electronics, Lecture	3
PS 54.1	Physics IV, Laboratory	1	PS 146.1	Physical Electronics, Laboratory	1
PS 128	Physical Mathematics III	3	PS 171	Electromagnetics	3
PS 129	Physical Mathematics IV	3	FREE ELECTIVE		3
		<b>Total: 19</b>			<b>Total: 19</b>

### FOURTH YEAR

<u>First Semester</u>		<u>Units</u>	<u>Second Semester</u>		<u>Units</u>
PH 101	Philosophy of the Human Person I	3	PH 102	Philosophy of the Human Person II	3
TH 131	Marriage, Family Life and Human Sexuality in a Catholic Perspective	3	HI 166	Philippine History	3
HI 165	Rizal and the Emergence of the Philippine Nation	3	PS 165	Optics, Lecture	3
PS 172	Electromagnetic Energy Transfer	3	PS 165.1	Optics, Laboratory	1
PS 197	Introduction to Quantum Mechanics I	3	PS 130	Computational Physics, Lecture	3
PS 102	Classical Mechanics II	3	PS 130.1	Computational Physics, Laboratory	1
PS 199.5	Undergraduate Thesis I	1	PS 113	Introductory Thermodynamics and Statistical Mechanics	3
		<b>Total: 19</b>	PS 199.6	Undergraduate Thesis II	2
					<b>Total: 19</b>

### FIFTH YEAR

<u>Summer</u>	<u>Units</u>
PS ELECTIVE/OJT	3
<b>Total: 3</b>	

<u>First Semester</u>		<u>Units</u>	<u>Second Semester</u>		<u>Units</u>
PH 103/	Philosophy of Religion/	3	PH 103/	Philosophy of Religion/	3
PH 104	Foundations of Moral Value		PH 104	Foundations of Moral Value	
TH 141/	A Theology of the Catholic Social Vision/	3	TH 141/	A Theology of the Catholic Social Vision/	3
TH 151	The Catholic Commitment of Today's Filipino: A Synthesis		TH 151	The Catholic Commitment of Today's Filipino: A Synthesis	
PS 199.7	Undergraduate Thesis III	2	PS 199.8	Undergraduate Thesis IV	1
PS 118	Solid State Physics, Lecture	3	PS ELECTIVE		3
PS 118.1	Solid State Physics, Laboratory	1	PS ELECTIVE		3
PS ELECTIVE		3	FREE ELECTIVE		3
		<b>Total: 15</b>			<b>Total: 16</b>

## BACHELOR OF SCIENCE IN APPLIED PHYSICS

There are 2 available tracks in the Applied Physics program: B.S. Applied Physics (Instrumentation Track) and B.S. Applied Physics (Materials Track). Both tracks are 5-year programs aiming to develop among students a detailed understanding of some of the most important concepts in physics as well as train them in applying physics concepts to solving realistic and practical problems. The Instrumentation Track is for those students who plan to design and build their own instruments while the Materials Track is for those who wish to develop novel materials with specific and desired qualities. Both programs require the submission and successful defense of a research thesis during the fifth year.

### INSTRUMENTATION TRACK

#### FIRST YEAR

<u>First Semester</u>	<u>Units</u>	<u>Second Semester</u>	<u>Units</u>
EN 11 Communication in English I	3	EN 12 Communication in English II	3
LIT 13 Introduction to Fiction	3	LIT 14 Introduction to Poetry and Drama	3
FIL 11 Sining ng Pakikipagtalastasan sa Filipino I	3	FIL 12 Sining ng Pakikipagtalastasan sa Filipino II	3
MA 18A Principles of Modern Mathematics I	3	MA 21 Mathematical Analysis I	6
MA 18B Principles of Modern Mathematics II	3	PS 51 Physics I, Lecture	3
CE 21 Introduction to Computing	3	PS 51.1 Physics I, Laboratory	1
PE 1 Physical Education	(2)	PE 2 Physical Education	(2)
INTAC 1 Introduction to Ateneo Culture and Traditions	(0)	INTAC 2 Introduction to Ateneo Culture and Traditions	(0)
<i>Total: 18</i>		<i>Total: 19</i>	

#### SECOND YEAR

<u>First Semester</u>	<u>Units</u>	<u>Second Semester</u>	<u>Units</u>
TH 121 An Introduction to Doing a Catholic Theology	3	FIL 14 Panitikan ng Pilipinas	3
MA 22 Mathematical Analysis II/	3	PS 126 Physical Mathematics I	3
CH 7 General Chemistry I, Lecture	3	PS 127 Physical Mathematics II	3
CH 8 General Chemistry I, Laboratory	2	PS 53 Physics III, Lecture	3
PS 52 Physics II, Lecture	3	PS 53.1 Physics III, Laboratory	1
PS 52.1 Physics II, Laboratory	1	BI 15 General Biology, Lecture	3
SA 21 Introduction to Sociology and Anthropology	3	BI 15.1 General Biology, Laboratory	2
PE 3 Physical Education	(2)	PE 4 Physical Education	(2)
NSTP 1 National Service Training Program	(3)	NSTP 2 National Service Training Program	(3)
<i>Total: 18</i>		<i>Total: 18</i>	

#### THIRD YEAR

<u>First Semester</u>	<u>Units</u>	<u>Second Semester</u>	<u>Units</u>
PSY 101 General Psychology	3	HI 16/Hi18 Asian History/ Western History	3
FLC Foreign Language and Culture	3	EC 102 Basic Economics, Agrarian Reform and Taxation	3
PS 54 Physics IV, Lecture	3	PS 101 Classical Mechanics, I	3
PS 54.1 Physics IV, Laboratory	1	PS 146 Physical Electronics, Lecture	3
PS 128 Physical Mathematics III	3	PS 146.1 Physical Electronics, Laboratory	1
PS 129 Physical Mathematics IV	3	PS 171 Electromagnetics	3
CE 22 Introduction to Data Structures	3	CE 30 Algorithms and Problem Solving	3
<i>Total: 19</i>		<i>Total: 19</i>	

#### FOURTH YEAR

<u>First Semester</u>	<u>Units</u>	<u>Second Semester</u>	<u>Units</u>
PH 101 Philosophy of the Human Person I	3	PH 102 Philosophy of the Human Person II	3
TH 131 Marriage, Family life and Human Sexuality in a Catholic Perspective	3	PS 113 Introductory Thermodynamics and Statistical Mechanics	3
POS 100 Politics and Governance	3	PS 130 Computational Physics, Lecture	3
PS 172 Electromagnetic Energy Transfer	3	PS 130.1 Computational Physics, Laboratory	1
PS 197 Introduction to Quantum Mechanics I	3	ECE 12 Computer-Aided Design, Laboratory	1
PS 147 Advanced Electronics, Lecture	3	ELC 111.1 Switching Theory and Digital Design, Lecture	3
PS 147.1 Advanced Electronics, Laboratory	1	ELC 111.2 Switching Theory & Digital Design, Laboratory	1
PS 199.5 Undergraduate Thesis I	1	PS 199.6 Undergraduate Thesis II	2
<i>Total: 20</i>		FREE ELECTIVE	3
		<i>Total: 20</i>	

#### FIFTH YEAR

<u>Summer</u>	<u>Units</u>
PS SP/OJT Instrumentation Specialization 1/OJT	3
<i>Total: 3</i>	

<u>First Semester</u>		<u>Units</u>	<u>Second Semester</u>		<u>Units</u>
PH 103/	Philosophy of Religion/		PH 103/	Philosophy of Religion/	
PH 104	Foundations of Moral Value	3	PH 104	Foundations of Moral Value	3
TH 141/	A Theology of the Catholic Social Vision/		TH 141/	A Theology of the Catholic Social Vision/	
TH 151	The Catholic Commitment of		TH 151	The Catholic Commitment of	
	Today's Filipino: A Synthesis	3		Today's Filipino: A Synthesis	3
PS 199.7	Undergraduate Thesis III	2	HI 166	Philippine History	3
HI 165	Rizal and the Emergence		PS 199.8	Undergraduate Thesis IV	1
	of the Philippine Nation	3	PS SP	Instrumentation Specialization 3	3
PS SP	Instrumentation Specialization 2	3	FREE ELECTIVE		3
		<b>Total: 14</b>			<b>Total: 16</b>

Total Number of Academic Units: 184  
Curriculum Effective Freshman Batch SY 2011-2012

## MATERIALS TRACK

### FIRST YEAR

<u>First Semester</u>		<u>Units</u>	<u>Second Semester</u>		<u>Units</u>
EN 11	Communication in English I	3	EN 12	Communication in English II	3
LIT 13	Introduction to Fiction	3	LIT 14	Introduction to Poetry and Drama	3
FIL 11	Sining ng Pakikipagtalastasan sa Filipino I	3	FIL 12	Sining ng Pakikipagtalastasan sa Filipino II	3
MA 18A	Principles of Modern Mathematics I	3	MA 21	Mathematical Analysis I	6
MA 18B	Principles of Modern Mathematics II	3	PS 51	Physics I, Lecture	3
CE 21	Introduction to Computing	3	PS 51.1	Physics I, Laboratory	1
PE 1	Physical Education	(2)	PE 2	Physical Education	(2)
INTAC 1	Introduction to Ateneo Culture and Traditions	(0)	INTAC 2	Introduction to Ateneo Culture and Traditions	(0)
		<b>Total: 18</b>			<b>Total: 19</b>

### SECOND YEAR

<u>First Semester</u>		<u>Units</u>	<u>Second Semester</u>		<u>Units</u>
TH 121	An Introduction to Doing a Catholic Theology	3	FIL 14	Panitikan ng Pilipinas	3
MA 22	Mathematical Analysis II	3	PS 126	Physical Mathematics I	3
CH 7	General Chemistry I, Lecture	3	PS 127	Physical Mathematics II	3
CH 8	General Chemistry I, Laboratory	2	PS 53	Physics III, Lecture	3
PS 52	Physics II, Lecture	3	PS 53.1	Physics III, Laboratory	1
PS 52.1	Physics II, Laboratory	1	CH 21	Survey of Organic Chemistry. Lecture	3
SA 21	Introduction to Sociology and Anthropology	3	CH 22.1	Survey of Organic Chemistry, Laboratory	2
PE 3	Physical Education	(2)	PE 4	Physical Education	(2)
NSTP 1	National Service Training Program	(3)	NSTP 2	National Service Training Program	(3)
		<b>Total: 18</b>			<b>Total: 18</b>

### THIRD YEAR

<u>First Semester</u>		<u>Units</u>	<u>Second Semester</u>		<u>Units</u>
PSY 101	General Psychology	3	HI 16/18	Asian History / Western History	3
FLC	Foreign Language and Culture	3	EC 102	Basic Economics, Agrarian Reform and Taxation	3
PS 54	Physics IV, Lecture	3	PS 101	Classical Mechanics, I	3
PS 54.1	Physics IV, Laboratory	1	PS 146	Physical Electronics, Lecture	3
PS 128	Physical Mathematics III	3	PS 146.1	Physical Electronics, Laboratory	1
PS 129	Physical Mathematics IV	3	PS 171	Electromagnetics	3
MSE 101	Principles of Materials Science and Engineering I	3	MSE 102	Principles of Materials Science II	3
		<b>Total: 19</b>			<b>Total: 19</b>

### FOURTH YEAR

<u>First Semester</u>		<u>Units</u>	<u>Second Semester</u>		<u>Units</u>
PH 101	Philosophy of the Human Person I	3	PH 102	Philosophy of the Human Person II	3
TH 131	Marriage, Family life and Human Sexuality in a Catholic Perspective	3	PS 113	Introductory Thermodynamics and Statistical Mechanics	3
POS 100	Politics and Governance	3	PS 130	Computational Physics, Lecture	3
PS 172	Electromagnetic Energy Transfer	3	PS 130.1	Computational Physics, Laboratory	1
PS 197	Introduction to Quantum Mechanics I	3	ECE 12	Computer-Aided Design, Laboratory	1
ECE 20	Basic Workshop Practices	1	MSE 106.2	Materials and Testing Laboratory II	3
MSE 106.1	Materials and Testing Laboratory I	3	PS 199.6	Undergraduate Thesis II	2
PS 199.5	Undergraduate Thesis I	1	FREE ELECTIVE		3
		<b>Total: 20</b>			<b>Total: 19</b>

### FIFTH YEAR

<u>Summer</u>		<u>Units</u>
PS SP/OJT	Materials Specialization 1/OJT	3
		<b>Total: 3</b>

<u>First Semester</u>		<u>Units</u>	<u>Second Semester</u>		<u>Units</u>
PH 103/	Philosophy of Religion/		PH 103/	Philosophy of Religion/	
PH 104	Foundations of Moral Value	3	PH 104	Foundations of Moral Value	3
TH 141/	A Theology of the Catholic Social Vision/		TH 141/	A Theology of the Catholic Social Vision/	
TH 151	The Catholic Commitment of		TH 151	The Catholic Commitment of	



HI 165	Today's Filipino: A Synthesis	3	HI 166	Today's Filipino: A Synthesis	3
PS 199.7	Rizal and the Emergence of the Philippine Nation	3	PS 199.8	Philippine History	3
PS SP	Undergraduate Thesis III	2	PS SP	Undergraduate Thesis IV	1
	Materials Specialization 2	3	PS SP	Materials Specialization 3	3
				FREE ELECTIVE	3
		<b>Total: 14</b>			<b>Total: 16</b>

Total Number of Academic Units: 183  
Curriculum Effective Freshman Batch SY 2011-2012

## BACHELOR OF SCIENCE IN APPLIED PHYSICS WITH MATERIALS SCIENCE AND ENGINEERING

This is a 5-year double-major program where at the end of the fifth year the student will receive a B.S Applied Physics degree and a B.S. Materials Science and Engineering degree. The program integrates knowledge and tools from chemistry and physics with principles from engineering to design, fabricate, and characterize improved and novel materials. Because it is a double major program, it requires the submission and successful defense of 2 research theses: one for the applied physics degree and another for the materials science and engineering degree.

### FIRST YEAR

First Semester		Units	Second Semester		Units
EN 11	Communication in English I	3	EN 12	Communication in English II	3
LIT 13	Introduction to Fiction	3	LIT 14	Introduction to Poetry and Drama	3
FIL 11	Sining ng Pakikipagtalastasan sa Filipino I	3	FIL 12	Sining ng Pakikipagtalastasan sa Filipino II	3
MA 18A	Principles of Modern Mathematics I	3	MA 21	Mathematical Analysis I	6
MA 18B	Principles of Modern Mathematics II	3	PS 51	Physics I, Lecture	3
CE 21	Introduction to Computing	3	PS 51.1	Physics I, Laboratory	1
PE 1	Physical Education	(2)	PE 2	Physical Education	(2)
INTAC 1	Introduction to Ateneo Culture and Traditions	(0)	INTAC 2	Introduction to Ateneo Culture and Traditions	(0)
		<b>Total: 18</b>			<b>Total: 19</b>

### SECOND YEAR

Summer		Units
FLC	Foreign Language and Culture	3
PSY 101	General Psychology	3
		<b>Total: 6</b>

First Semester		Units	Second Semester		Units
SA 21	Introduction to Sociology and Anthropology	3	FIL 14	Panitikan ng Pilipinas	3
TH 121	An Introduction to Doing a Catholic Theology	3	PS 126	Physical Mathematics I	3
MA 22	Mathematical Analysis II	3	PS 127	Physical Mathematics II	3
PS 52	Physics II, Lecture	3	PS 53	Physics III, Lecture	3
PS 52.1	Analytical Physics II, Laboratory	1	PS 53.1	Physics III, Laboratory	1
CH 7	General Chemistry I, Lecture	3	CH 21	Survey of Organic Chemistry, Lecture	3
CH 8	General Chemistry I, Laboratory	2	CH 22.2	Survey of Organic Chemistry, Laboratory	2
PE 3	Physical Education	(2)	PE 4	Physical Education	(2)
NSTP 1	National Service Training Program	(3)	NSTP 2	National Service Training Program	(3)
		<b>Total: 18</b>			<b>Total: 18</b>

### THIRD YEAR

Summer		Units
EC 102	Basic Economics, Agrarian Reform and Taxation	3
HI 16/HI 18	Asian History/Western History	3
ECE 12	Computer-Aided Design, Laboratory	1
		<b>Total: 7</b>

First Semester		Units	Second Semester		Units
PH 101	Philosophy of the Human Person I	3	PH 102	Philosophy of the Human Person II	3
TH 131	Marriage, Family Life and Human Sexuality in a Catholic Perspective	3	HI 165	Rizal and the Emergence of the Philippine Nation	3
PS 54	Physics IV, Lecture	3	PS 101	Classical Mechanics I	3
PS 54.1	Physics IV, Laboratory	1	PS 146	Physical Electronics, Lecture	3
PS 128	Physical Mathematics III	3	PS 146.1	Physical Electronics, Laboratory	1
PS 129	Physical Mathematics IV	3	PS 171	Electromagnetics	3
MSE 101	Principles of Materials Science I	3	MSE 102	Principles of Materials Science and Engineering II	3
		<b>Total: 19</b>			<b>Total: 19</b>

### FOURTH YEAR

Summer		Units
MSE 121	Polymeric Materials, Lecture	3

MSE 122	Polymeric Materials, Laboratory	1
ECE 20	Basic Workshop Practices	1
MSE 161	Engineering Management	2
<i>Total:</i>		7

<u>First Semester</u>		<u>Units</u>	<u>Second Semester</u>		<u>Units</u>
PH 103/	Philosophy of Religion/		PH 103/	Philosophy of Religion/	
PH 104	Foundations of Moral Value	3	PH 104	Foundations of Moral Value	3
TH 141/	A Theology of the Catholic Social Vision/		TH 141/	A Theology of the Catholic Social Vision/	
TH 151	The Catholic Commitment of Today's Filipino: A Synthesis	3	TH 151	The Catholic Commitment of Today's Filipino: A Synthesis	3
POS 100	Politics And Governance	3	PS 113	Introductory Thermodynamics and Statistical Mechanics	3
PS 172	Electromagnetic Energy Transfer	3	PS 130	Computational Physics, Lecture	3
PS 197	Introduction to Quantum Mechanics I	3	PS 130.1	Computational Physics, Laboratory	1
PS 199.5	Undergraduate Thesis I	1	MSE 106.2	Materials and Testing Laboratory II	3
MSE 106.1	Materials and Testing Laboratory 1	3	PS 199.6	Undergraduate Thesis II	2
<i>Total:</i>		19	<i>Total:</i>		18

## FIFTH YEAR

<u>Summer</u>	<u>Units</u>
MSE ELECTIVE/OJT	3
PS 199.7 Undergraduate Thesis III	2
<i>Total:</i>	5

<u>First Semester</u>		<u>Units</u>	<u>Second Semester</u>		<u>Units</u>
HI 166	Philippine History	3	MSE 131	Ceramics Materials	3
PS 199.8	Undergraduate Thesis IV	1	MSE 199.2	Materials Research Project II	3
MSE 160	Innovation and Technology	3	MSE ELECTIVE		3
MSE 111	Metallic Materials	3	MSE ELECTIVE		3
MSE 141	Electronic Materials	3	<i>Total:</i>		12
MSE 151	Engineering Composites	3			
MSE 199.1	Materials Research Project I	3			
<i>Total:</i>		19			

Total Number of Academic Units: 204  
Curriculum Effective Freshman Batch SY 2011-2012

## COURSE OFFERINGS

### PS 1 INTRODUCTORY PHYSICS I, LECTURE

**3 units**

*For non-science majors*

This course introduces to conceptual physics as the foundation of all other sciences and engineering. Topics include mechanics, matter and atomic structure, heat and thermodynamics, wave mechanics (sound and light), electromagnetics, and modern physics.

### PS 2 INTRODUCTORY PHYSICS I, LABORATORY

**1 unit**

This is a laboratory course taken concurrently with PS 1. Laboratory activities include standard experiments and computer-aided data acquisition and analysis.

### PS 10 INTRODUCTORY PHYSICS 5 units

This course introduces the concepts of physics through lectures with demonstrations, recitations, and laboratory work. Topics include mechanics, matter and atomic structure, heat and thermodynamics, wave mechanics (sound and light), electromagnetics and modern physics.

### PS 11 GENERAL PHYSICS 1 FOR THE LIFE SCIENCES, LECTURE

**3 units**

*The first part of the Physics series for the Life Sciences majors.*

This course introduces the general concepts of mechanics and thermodynamics. Topics include kinematics, Newton's three laws of motion, work-energy theorem, conservation of energy, impulse- momentum theorem, rotational motion, simple harmonic motion, and laws of thermodynamics.

**PS 11.1  
GENERAL PHYSICS 1  
FOR THE LIFE SCIENCES,  
LABORATORY**

**1 unit**

This is the laboratory course that accompanies PS 11. Activities in this course include experiments in kinematics, Newton's three laws of motion, work-energy theorem, conservation of energy, impulse-momentum theorem, rotational motion, torque, moment of inertia, conservation of angular momentum, simple harmonic motion, and thermodynamics.

**PS 12  
GENERAL PHYSICS 2  
FOR THE LIFE SCIENCES,  
LECTURE**

**3 units**

**Pre-requisites:** PS 11, PS 11.1

*This is the second part of the Physics series for the Life Sciences majors.*

This course introduces the general concepts of electricity and magnetism, optics and modern physics. Topics include electric fields, magnetic fields, induction, properties of light, geometric optics, and nuclear physics.

**PS 12.1  
GENERAL PHYSICS 2  
FOR THE LIFE SCIENCES,  
LABORATORY**

**1 unit**

**Pre-requisites:** PS 11, PS 11.1

This is the laboratory course accompanying PS 12. This course includes experiments in electricity and magnetism, induction, optics and nuclear physics.

**PS 14  
GENERAL PHYSICS,  
LECTURE**

**5 units**

*For Life Sciences and Engineering majors.*

This course introduces all topics in Physics providing the mathematical framework required by the discipline without calculus. It is taught with emphasis on topics and needs of particular service disciplines. Topics can range from mechanics, thermodynamics, electromagnetism, wave mechanics, optics, nuclear and modern physics.

**PS 15  
GENERAL PHYSICS,  
LABORATORY**

**1 unit**

This is the complementary laboratory course of PS 14 covering topics in mechanics, thermodynamics, electromagnetism, wave mechanics, optics, nuclear and modern physics.

**PS 17  
SELECTED TOPICS IN  
ANALYTICAL PHYSICS I,  
LECTURE AND  
LABORATORY**

**5 units**

This course provides a study of selected topics in mechanics, waves, thermodynamics and an introduction to modern physics, with lecture-demonstrations, recitations, and laboratory work.

**PS 18  
SELECTED TOPICS IN  
ANALYTICAL PHYSICS II,  
LECTURE AND  
LABORATORY**

**5 units**

**Pre-requisite:** PS 17

This course provides a study of selected topics in electromagnetism and optics, with lecture-demonstrations, recitations, and laboratory work.

**PS 21  
COLLEGE PHYSICS I,  
LECTURE**

**3 units**

This course presents the fundamental concepts of mechanics, thermodynamics, wave mechanics and electricity and magnetism for computer science majors. Topics include the basic physical quantities, vectors, Newton's law of motion, energy and power, impulse and momentum, kinetic theory of gases, temperature, laws of thermodynamics, wave motion, interference, electrostatics, electric and magnetic fields and electromagnetic waves.

**PS 21.1  
COLLEGE PHYSICS I,  
LABORATORY**

**2 units**

This laboratory course complements PS 21. Activities include experiments in Newton's Law of motion, energy conservation, impulse and momentum, laws of thermodynamics, wave motion, interference, electrostatics, electric and magnetic fields and electromagnetic waves.

**PS 22  
COLLEGE PHYSICS II,  
LECTURE AND  
LABORATORY**

**5 units**

**Pre-requisites:** PS 21, PS 21.1  
*The second of the sequential calculus-based courses in introductory Physics designed for Computer Science majors.*

This introduces the students to the beginning of the quantum story, atomic models, and the fundamental principle of quantum mechanics.

**PS 31**  
**ELEMENTARY PHYSICS I,**  
**LECTURE**  
**3 units**  
**Pre-requisite: MA 21**  
*The first of a series of three calculus-based introductory Physics courses taken by students majoring in science.*  
 This course presents a study of the fundamental concepts of mechanics and thermodynamics. Topics include vectors, kinematics, Newton's laws of motion, work-energy theorem, impulse-momentum, temperature, and laws of thermodynamics.

**PS 31.1**  
**ELEMENTARY PHYSICS I,**  
**LABORATORY**  
**2 units**  
**Pre-requisite: MA 21**  
 This is the laboratory companion of PS 31. It focuses on hands-on and computer-aided experiments. Activities include experiments in vectors, kinematics, Newton's laws of motion, work-energy theorem, impulse-momentum theorem, temperature, and laws of thermodynamics.

**PS 32**  
**ELEMENTARY PHYSICS II,**  
**LECTURE**  
**3 units**  
**Pre-requisites: PS 31, PS 31.1**  
*The second of a series of three calculus-based introductory Physics courses taken by students majoring in science.*  
 This course introduces the fundamental concepts of electromagnetism such as electrostatic phenomena, Gauss' Law and applications, electric potential, basic circuit elements, magnetism and induction.

**PS 32.1**  
**ELEMENTARY PHYSICS II,**  
**LABORATORY**  
**2 units**  
**Pre-requisites: PS 31, PS 31.1**  
 This is the accompanying laboratory course of PS 32. Activities include experiments in electrostatics, circuits, electric potential, basic circuit elements, magnetism and induction.

**PS 33**  
**ELEMENTARY**  
**PHYSICS III,**  
**LECTURE**  
**3 units**  
**Pre-requisites: PS 32, PS 32.1**  
*The third of a series of three calculus-based introductory Physics courses taken by students majoring in science.*  
 This course is a study of the fundamental concepts of wave mechanics, sound, geometrical and physical optics, as well as an introduction to modern physics.

**PS 33.1**  
**ELEMENTARY**  
**PHYSICS III,**  
**LABORATORY**  
**2 units**  
 This is the laboratory component of PS 33. Activities include experiments in wave mechanics, sound, geometrical and physical optics and modern Physics.

**PS 41**  
**ANALYTICAL PHYSICS I,**  
**LECTURE**  
**3 units**  
**Pre-requisite: MA 21**  
*The first of a series of three calculus-based introductory Physics courses for students majoring in science.*  
 This course covers the fundamental concepts of kinematics of linear and two-dimensional motion; Newton's three laws of motion with

applications in statistics and dynamics; work-energy theorem including kinetic energy and potential energy; conservation of energy; impulse-momentum theorem with applications on collisions; among others.

**PS 41.1**  
**ANALYTICAL PHYSICS I,**  
**LABORATORY**  
**2 units**  
**Pre-requisite: MA 21**  
 This is the laboratory course of PS 41. Experiments in this course employ computer-aided and problem solving approaches. This course include experiments on kinematics of linear and two-dimensional motion, Newton's three laws of motion, work-energy theorem, impulse-momentum theorem, among others.

**PS 42**  
**ANALYTICAL PHYSICS II,**  
**LECTURE**  
**3 units**  
**Pre-requisites: PS 41, PS 41.1**  
*The second of a series of three calculus-based introductory Physics courses for students majoring in science.*  
 This is a course on the fundamental concepts of wave mechanics and sound, thermodynamics and the first part of electromagnetism. Topics include mechanical waves, laws of thermodynamics, electric fields and basic circuits.

**PS 42.1**  
**ANALYTICAL PHYSICS II,**  
**LABORATORY**  
**2 units**  
**Pre-requisites: PS 41, PS 41.1**  
 This is the laboratory course of PS 42. Experiments in this course employ computer-aided and problem solving approaches. This course

includes experiments in wave mechanics and sound, thermodynamics, heat transfer, resistive circuits and Kirchoff's circuit laws.

**PS 43**  
**ANALYTICAL PHYSICS III,**  
**LECTURE**  
**3 units**

**Pre-requisites:** PS 42, PS 42.1  
*The third of a series of three calculus-based introductory Physics courses for students majoring in the sciences.*

This course covers the fundamental concepts of electromagnetism, optics and relativity. Topics include Gauss' law and its applications, Bio-Savart law, Ampere's law, AC circuits, electromagnetic induction, Faraday's law, synthesis of Maxwell's equations, optical elements, refraction, diffraction, electromagnetic waves and relativity.

**PS 43.1**  
**ANALYTICAL PHYSICS III,**  
**LABORATORY**  
**2 units**

**Pre-requisites:** PS 42, PS 42.1  
This is the laboratory course accompanying PS 43. Experiments in this course employ computer-aided and problem solving approaches. This course includes experiments in electromagnetic induction, AC circuits, magnetic sources, optics (diffraction, refraction and reflection light).

**PS 51**  
**PHYSICS I, LECTURE**  
**3 units**  
**Pre-requisites:** MA 18 A & B  
*The first of a series of four-calculus-based introductory Physics courses for students majoring in the sciences.*  
This course covers the fundamental concepts of

kinematics of linear and two-dimensional motion; Newton's three laws of motion; work-energy theorem; conservation of energy; impulse-momentum theorem; kinematics and dynamics of rotational motion; universal theory of gravitation; and concepts of simple harmonic motion.

**PS 51.1**  
**PHYSICS I, LABORATORY**  
**1 unit**

**Pre-requisites:** MA 18 A & B  
This is the laboratory course accompanying PS 51. Experiments in this course employ computer-aided and problem solving approaches.

**PS 52**  
**PHYSICS II, LECTURE**  
**3 units**  
**Pre-requisites:** PS 51, PS 51.1  
*The second of a series of three-calculus-based introductory Physics courses for students majoring in the sciences.*

This course aims to develop the student's analytical and problem solving skills through lectures, class recitations, problem sets and long examinations. It covers the fundamental concepts of thermodynamics, waves and optics. Topics include periodic motion, mechanical waves, laws of thermodynamics, geometric and wave optics.

**PS 52.1**  
**PHYSICS II, LABORATORY**  
**1 unit**

**Pre-requisites:** PS 51, PS 51.1  
This is the laboratory accompanying PS 52. This course includes experiments dealing with thermodynamics (heat transfer, specific heat calculations), thermodynamics processes), mechanical waves and geometric optics. Experiments in this course

employ computer-aided and problem solving approaches.

**PS 53**  
**PHYSICS III, LECTURE**  
**3 units**  
**Pre-requisite:** PS 52, PS 52.1  
*The third of a series of general Physics for students majoring in Physics.*

This course introduces the basic foundation of electric and magnetic fields and their interaction with matter.

**PS 53.1**  
**PHYSICS III, LABORATORY**  
**3 units**

**Pre-requisites:** PS 52, PS 52.1  
This is the laboratory course accompanying PS 53. Experiments in this course employ computer-aided and problem solving approaches.

**PS 54**  
**PHYSICS IV, LECTURE**  
**3 units**  
**Pre-requisites:** PS 53, PS 53.1

This course introduces the basic concepts of modern Physics. Topics include relativity, photons, electrons, atoms, wave nature of particles, quantum mechanics, atomic structure, molecules and condensed matter, nuclear physics, particle physics and cosmology.

**PS 54.1**  
**PHYSICS IV, LABORATORY**  
**3 units**

**Pre-requisites:** PS 53, PS 53.1  
This is the laboratory course accompanying PS 54. This course includes classical experiments in optics, spectrometry, interferometry and nuclear physics. Experiments in this course employ computer-aided and problem solving approaches.

**PS 101**  
**CLASSICAL MECHANICS I**  
**3 units**

**Pre-requisite:** PS 127

*The first of a two-part junior level classical mechanics course for Physics majors.*

This course aims to develop the student's comprehension of the dynamics of particles and systems. It includes discussions on harmonic oscillators, non-linear oscillators, central-force motion, gravitation and potential energy. It includes an introduction to the Lagrangian and Hamiltonian formalisms.

**PS 102**  
**CLASSICAL MECHANICS II**  
**3 units**

**Pre-requisite:** PS 101

*The second of a two-part junior level classical mechanics course for Physics majors.*

This course reinforces the use of the Lagrangian and Hamiltonian formalisms, Hamilton's principle, the Hamiltonian and Hamilton's canonical equations.

**PS 103**  
**FLUID MECHANICS**  
**3 units**

**Pre-requisite:** PS 102

This course provides an introduction to the properties of fluids and fluid systems, with examples drawn from a broad range of sciences, including atmospheric physics and astrophysics.

**PS 108**  
**MODERN PHYSICS**  
**3 units**

**Pre-requisite:** PS 54

*Intended for science majors and engineering students who have already completed an introductory calculus-based Physics course.*

This course provides students with an in-depth discussion on

the physical concepts and theories of modern Physics in the 21<sup>st</sup> century. Topics include relativity, quantum and kinetic theory, applications of elementary quantum theory to atomic, molecular and solid state physics.

**PS 113**  
**INTRODUCTORY THERMODYNAMICS AND STATISTICAL MECHANICS**  
**3 units**

**Pre-requisites:** PS 197

This course covers the basic theories and applications of statistical thermodynamics. Emphasis is on the development of the theory from a microscopic viewpoint. Topics include basic statistical methods, statistical ensembles, applications of thermodynamics and statistical mechanics, chemical and phase equilibrium, and quantum statistics.

**PS 115**  
**ADVANCED PHYSICS LABORATORY**  
**3 units**

**Pre-requisites:** PS 43

*Intended for physics and engineering majors who have already completed an introductory calculus-based Physics course.*

This is a laboratory course on selected topics from the major areas in physics providing the methods and procedures of experimental physics at an advanced level, and familiarization with the design and use of modern research equipment.

**PS 116.1**  
**RESEARCH LABORATORY SERIES I**  
**3 units**

**Pre-requisites:** PS 54, PS 54.1

This course introduces the Physics majors to basic and

advanced laboratory techniques in vacuum physics. Experiments in this course include optical characterization of optical thin film coatings on materials, physical vapor deposition techniques, surface characterization of optical coatings and design of multilayer coatings.

**PS 116.2**  
**RESEARCH LABORATORY SERIES II**  
**3 units**

**Pre-requisites:** PS 54, PS 54.1

This course introduces the Physics majors to basic and advanced laboratory techniques in materials science. Experiments in this course include deformation studies on materials, coating and characterization of bulk elastomer materials, semiconductors and nanoparticles.

**PS 116.3**  
**RESEARCH LABORATORY SERIES III**  
**3 units**

**Pre-requisites:** PS 54, PS 54.1

This course introduces the Physics majors to basic and advanced laboratory techniques in atmospheric science. Experiments include atmospheric instrumentation, weather instruments, data collection and analysis, numerical atmospheric and climate modeling, dispersion and satellite data analysis.

**PS 116.4**  
**RESEARCH LABORATORY SERIES IV**  
**3 units**

**Pre-requisites:** PS 54, PS 54.1

This course introduces the Physics majors to basic and advanced laboratory techniques in photonics. Experiments include light scattering from disordered



systems, polarization of light, diffraction, optical transforms, fluorescence, magnetic susceptibility and beam displacements as function of refractive index.

**PS 118**  
**INTRODUCTION TO SOLID STATE PHYSICS, LECTURE**  
**3 units**

**Pre-requisite:** PS 197

This course introduces the students to the field of solid state physics. Topics include crystal structures and defects, crystal binding, reciprocal lattice, Brillouin zones, free electron gas, Bloch's theorem, Keonig-Penney potential, energy bands, Fermi surfaces and metals, superconductivity, electronic and optical processes in materials.

**PS 118.1**  
**INTRODUCTION TO SOLID STATE PHYSICS, LABORATORY**  
**1 unit**

**Pre-requisite:** PS 197

This is the 1-unit, 3- hour laboratory course accompanying PS 118.

**PS 121**  
**MATHEMATICAL PHYSICS I**  
**3 units**

**Pre-requisite:** MA 22

This course introduces Physics major students to the study of vector calculus and complex analysis. Topics include vector algebra, geometry of three-dimensional vectors, vector fields, functions of complex and variable, analytic functions, Cauchy-Reimann equations, Cauchy's integral equation, Laurent expansion, calculus of residues and conformal mapping.

**PS 122**  
**MATHEMATICAL PHYSICS II**  
**3 units**

**Pre-requisites:** MA 22

This course introduces the concept of linear algebra and differential equations required for upper level courses. Topics include matrices, matrix operations, orthonormal basis and similarity transformations, spectral decomposition, eigenvalues and eigenfunctions, real vector spaces, first order and higher order differential equations, integrating factors, homogeneous and nonhomogeneous equations, series solutions, power series, differential operations and Laplace transforms.

**PS 123**  
**MATHEMATICAL PHYSICS III**  
**3 units**

**Pre-requisites:** PS 121, PS 122

This course introduces Physics major students to special functions and operator methods needed for upper level physics. Topics include power series solutions – gamma, beta, error, elliptic, and hypergeometric functions; solutions to Laplace equation (Legendre, Bessel Hermite, Hankel), spherical harmonics, Fourier series and Green's function.

**PS 125**  
**NUMERICAL ANALYSIS**  
**3 units**

**Pre-requisites:** CE 21, PS 121 PS 122

This course introduces numerical analysis needed for computational Physics. Topics include approximate functions; approximate solutions to differential equations; systems of equations; issues related to numerical calculations; sources

of error in numerical problem solving; curve fitting; numerical integration and differentiation; function approximation; and numerical solutions of non-linear equations.

**PS 126**  
**PHYSICAL MATHEMATICS I**  
**3 units**

**Pre-requisite:** MA 22

This is a course on vector analysis. Topics include vector sums and products; planar and spatial vectors; rotations, reflections, and orthogonal transformations; general linear transformations and matrices; parametric equations of line, circles, and curves; time derivative; rectangular, cylindrical, and spherical coordinates.

**PS 127**  
**PHYSICAL MATHEMATICS II**  
**3 units**

**Pre-requisite:** MA 22

This is a course on matrices and differential equations. Topics include matrix operations, orthonormal basis and similarity transformations, spectral decomposition, eigenvalues and eigenfunctions, separation of variables in different coordinate systems, first and second order linear differential equations, Sturm-Liouville theory, and Laplace transform.

**PS 128**  
**PHYSICAL MATHEMATICS III**  
**3 units**

**Pre-requisite:** MA 22

This is a course on complex numbers and probability. Topics in Complex Analysis include complex numbers, power series, Euler's theorem,



and derivatives and integrals of complex function. Topics in Probability Theory include set theory, average and standard deviation, permutations and combination, and random numbers.

**PS 129  
PHYSICAL  
MATHEMATICS IV  
3 units**

**Pre-requisite: MA 22**

This is a course on special functions. Topics include functions that correspond to power series solutions, and functions that arise from the solution of Laplace equation in different coordinate systems – Legendre and Hermite polynomials, Bessel functions, and spherical harmonics, and Fourier series.

**PS 130  
COMPUTATIONAL  
PHYSICS, LECTURE  
3 units**

**Pre-requisites: PS 54, PS 54.1, PS 129**

This course introduces the students to aspects of computational physics. Topics include numerical differentiation and integration, data analysis and curve fitting, approximating functions, error analysis in numerical problem solving, methods for solving initial-value problems for ordinary differential equations and partial differential equations.

**PS 130.1  
COMPUTATIONAL  
PHYSICS, LABORATORY  
1 unit**

**Pre-requisite: PS 54, PS 54.1, PS 129**

This is a 1-unit course accompanying PS 130. Students learn to apply methods in computational Physics and numerical analysis to a broad

spectrum of Physics problems and implement them by writing computer programs using high level programming language, such as C/C++.

**PS 133  
OPTOELECTRONICS  
3 units**

**Pre-requisites: PS 171**

This is a course designed to introduce students to the underlying physics of contemporary optical systems. The lectures proceed with applications such as optical modulation, such as optical modulation and displays. Students should be thoroughly familiar with the physics of optical devices and have a wider view of applied optics.

**PS 140  
ELECTRONICS  
5 units**

**Pre-requisites: MA 18, PS 21**  
*A background course on computer organization and computer hardware system for Computer Science majors.*

This course includes the following topics: an introduction to analog and digital electronics, electrical circuit concepts, electronic devices such as diodes, transistors and operational amplifiers, basic digital electronics including basic combinational circuits, Boolean algebra, and K-maps.

**PS 141  
CIRCUITS  
4 units**

**Pre-requisites: PS 53, PS 53.1**

This course introduces the students to the study of electric circuit analyses and synthesis using network theorems and techniques in time, frequency, phase, and s-domains.

**PS 141.1  
ELECTRONICS I, LECTURE  
3 units**

**Pre-requisites: PS 43, PS 53 or PS 32, PS 127 or ENGMA 101**

*This course is intended for Chemistry- Applied Computer Systems Majors.*

This course is an introduction to the linear and non-linear circuits. Topics include passive circuits with resistive, capacitive, and inductive elements; semiconductor devices such as diodes, bipolar junction transistors (BJT), field effect transistors (FET), and operational amplifiers (op-amps) as circuit elements.

**PS 142  
ELECTRONICS II  
4 units**

**Pre-requisites: PS 141, PS 141.1**

*The second part of the electronics series for Physics, Chemistry, and Applied Computer Systems majors.*

This course introduces the concept of analysis and design of electronic circuits using semiconductor devices. Topics include two-terminal diodes, bipolar junction transistors, field-effect transistors, operating amplifiers, thyristors, and other semiconductor devices.

**PS 142.1  
ELECTRONICS II,  
LECTURE  
3 units**

**Pre-requisites: PS 141, PS 141.1**

*The second part of the electronic series for Chemistry and Applied Computer Systems majors.*

This course introduces the concept of analysis and design of electronic circuits using semiconductor devices. Topics include two-terminal diodes, the bipolar junction transistors, field-effect transistors,

operational amplifiers, thyristors, and other miscellaneous semiconductor devices.

**PS 146**  
**PHYSICAL ELECTRONICS,**  
**LECTURE**

**3 units**

**Pre-requisites:** PS 53, PS 53.1

This course is the lecture component on electronic devices and circuit theory. The topics in this course include methods of analysis of DC circuits, the circuit theorems, first and second order AC circuits, characteristics and functions of different analog electrical components and devices.

**PS 146.1**  
**PHYSICAL ELECTRONICS,**  
**LABORATORY**

**1 unit**

**Pre-requisites:** PS 53, PS 53.1

This course is the laboratory component on electronic devices and circuit theory. The laboratory aims to develop in the students the appropriate skill in the operation of electrical instruments like multimeter, function generator and oscilloscope through laboratory activities.

**PS 153.1**  
**TOPICS IN**  
**ENVIRONMENTAL**  
**PHYSICS SERIES I**

**3 units**

**Pre-requisites:** PS 52, PS 52.1, MA 22

This course teaches the basic foundation of atmospheric physics for undergraduate students. Topics include earth system, atmospheric models, atmospheric thermodynamics, atmospheric radiation, basic fluid dynamics, atmospheric dynamics, atmospheric boundary layer, weather systems, atmospheric

chemistry, cloud microphysics, atmospheric remote sounding, climate change and atmospheric modeling.

**PS 153.2**  
**TOPICS IN**  
**ENVIRONMENTAL**  
**PHYSICS SERIES II**

**3 units**

**Pre-requisites:** PS 52, PS 52.1, MA 22

This course teaches the introductory atmospheric physics mainly through the application of thermodynamics to atmospheric phenomena. Topics include foundations of energy conservation, the ideal gas law, heat capacities, thermodynamic processes, and entropy. Special focus is given to the thermodynamics of water and its transformations in the atmosphere.

**PS 153.3**  
**TOPICS IN**  
**ENVIRONMENTAL**  
**PHYSICS SERIES III**

**3 units**

**Pre-requisites:** PS 52, PS 52.1, MA 22

This course introduces the students to the microphysics of clouds and precipitation. The course delves into the theories of formation and growth of cloud droplets and ice crystals, and the initiation and development of precipitation.

**PS 153.4**  
**TOPICS IN**  
**ENVIRONMENTAL**  
**PHYSICS SERIES IV**

**3 units**

**Pre-requisites:** PS 52, PS 52.1, MA 22

This course examines the physics of remote sensing as a fundamental tool for atmospheric physics. Topics include discussions on electromagnetic waves in free space, interaction of

electromagnetic waves with matter, interaction of electromagnetic waves with the Earth's atmosphere, photographic systems, and electro-optical systems.

**PS 153.5**  
**CLIMATE CHANGE AND**  
**DISASTER RISK**

**3 units**

This course introduces the science of climate change and disasters. It covers the impacts of a warmer world, long-term climatic changes and rapid onset extreme events. It provides a science-evidence based approach to assessing and formulating options and actions towards development that is both sustainable and climate change resilient.

**PS 161**  
**EXPERIMENTAL OPTICS,**  
**LABORATORY**

**3 units**

**Pre-requisites:** PS 54, PS 54.1

This laboratory course seeks to develop students' experimental skills in dealing with optical systems. It consists of a series of experiments, starting with basic geometric optics and wave phenomena. Advanced activities involve research set-ups at the Photonics Laboratory, where students perform work on fluorescence spectroscopy and holography.

**PS 162**  
**INTRODUCTORY**  
**SPECTROSCOPY**

**3 units**

**Pre-requisites:** PS 54, PS 54.1

This course introduces students to the basic principles and practical aspects of modern spectroscopy. The course covers the basic physics of spectroscopy, including absorption and emission of light; and optical instruments and techniques. Systems to be

described include multi-electron atoms and diatomic molecules.

**PS 165**  
**OPTICS, LECTURE**

**3 units**

**Pre-requisite: PS 171**

This course tackles the extended concepts developed in a standard undergraduate optics course. This course covers the topics on geometric optics, interference, diffraction, polarization and introduction to Fourier optics.

**PS 165.1**  
**OPTICS, LABORATORY**

**3 units**

**Pre-requisite: PS 171**

This course includes experiments on reflection, refraction, total internal reflection as well as selected experiments in geometric optics such as dispersion and image formation using mirrors and lenses, and experiments in physical optics such as the Fraunhoffer and Fresnel diffraction patterns and interference.

**PS 171**  
**ELECTROMAGNETICS**

**3 units**

**Pre-requisites: PS 53, PS 53.1, PS 126, PS 127, PS 129**

This course is an introduction to the classical theory of electromagnetism. It examines the fundamental laws governing electric fields and magnetism and their interaction with matter. Topics include vector analysis, electrostatics, special techniques in solving Laplace's equation, electric fields in matter, magnetostatics, magnetic fields in matter, electrodynamics and conservation laws.

**PS 172**  
**ELECTROMAGNETIC ENERGY TRANSFER**

**3 units**

**Pre-requisite: PS 171**

*The second part of the classical electromagnetism course.*

This course focuses on the fundamental theory of electrodynamics. Topics include electromagnetic waves, potentials and fields, radiation, electrodynamics, relativity in electromagnetism and relevant applications of electromagnetic waves.

**PS 173**  
**RADIATION AND OPTICS**

**3 units**

**Pre-requisite: PS 171**

This course introduces the nature and propagation of light in matter. The interaction between light and matter is discussed with emphasis on the radiation processes in LASER action. The course reviews classical optics and also covers aspects of the quantum nature of light and contemporary topics such as optical devices and holography.

**PS 175.1**  
**TOPICS IN PHOTONICS SERIES I**

**3 units**

**Pre-requisite: PS 171**

This course provides a comprehensive introduction to holographic techniques and theory. Topics include: Fourier techniques, diffraction integrals, hologram formation and recording materials, holographic applications in microscopy, data storage and interferometry. This is a supplement to a standard optics course for students who wish to develop a deeper understanding of wave phenomena.

**PS 175.2**  
**TOPICS IN PHOTONICS SERIES II**

**3 units**

**Pre-requisite: PS 171**

This course serves as an extension to diffraction theory as developed in a standard optics course. Emphasis is on the diffraction grating, one of the most important optical devices. Students are expected to develop further skills in analyzing optical systems.

**PS 175.3**  
**TOPICS IN PHOTONICS SERIES III**

**3 units**

**Pre-requisite: PS 171**

This course extends concepts developed in a standard undergraduate optics course. The theory of nonlinear optics is established on an electromagnetic basis. Details of nonlinear phenomena are presented, including frequency doubling, parametric amplification and oscillation, nonlinear refractive indices and nonlinear optical materials.

**PS 175.4**  
**TOPICS IN PHOTONICS SERIES IV**

**3 units**

This course introduces students to the awareness of recent developments in optical technology. The class consists of regularly scheduled discussions of current journal articles dealing with optics and photonics. Students are expected to effectively present and analyze results and conclusions from papers of interest.

**PS 189.1**  
**TOPICS IN MATERIALS**  
**PHYSICS SERIES I**

**3 units**

*The first of two 3-unit lecture courses introducing scientists to basic concepts in materials science.*

This course starts with a classification of materials, followed by a review of atomic-scale structure of materials. Topics include: crystal structure and defects and their role in defining material properties; non-crystalline, polycrystalline materials; binary phase diagrams; and structural transformations in relation to the microstructural development of materials.

**PS 189.2**  
**TOPICS IN MATERIALS**  
**PHYSICS SERIES II**

**3 units**

*The second of two 3-unit lecture courses introducing scientists to basic concepts in materials science.*

This course concentrates on materials properties and processing. The properties covered are mechanical, electrical, optical, magnetic and thermal. These properties are linked to the microstructure of the material. The more common processing techniques are also discussed.

**PS 189.3**  
**TOPICS IN MATERIALS**  
**PHYSICS SERIES III,**  
**LABORATORY**

**3 units**

This first laboratory course aims to reinforce concepts in materials science and engineering through experimentation and testing in the laboratory, and this is supplemented by a lecture/discussion session on each experiment or exercise.

**PS 189.4**  
**TOPICS IN MATERIALS**  
**PHYSICS SERIES IV,**  
**LABORATORY**

**3 units**

The second laboratory course aims to reinforce concepts in materials science and engineering through experimentation and testing in the laboratory, and this is supplemented by a lecture/discussion session on each experiment or exercise.

**PS 195**  
**SPECIAL TOPICS**

**3 units**

This course introduces students to the current trends and developments in the various fields of physics. Topics may include the applications of physics in other disciplines, such as medicine, biology, chemistry, education, engineering, materials science, atmosphere and the environment.

**PS 197**  
**INTRODUCTION TO**  
**QUANTUM MECHANICS I**

**3 units**

**Pre-requisites: PS 54**

This course introduces the students to the history and the formulation of the fundamental principles of quantum mechanics. Topics include wave function, time-dependent Schrodinger equation, formalism of quantum mechanics, quantum mechanics in three dimensions, identical particles and applications.

**PS 198**  
**INTRODUCTION TO**  
**QUANTUM MECHANICS II**

**3 units**

**Pre-requisite: PS 197**

This course is a continuation of the first quantum mechanics course. Topics and discussion include time-independent

perturbation theory, variational principles, WKB approximation, time-dependent perturbation theory, adiabatic approximation, and quantum scattering.

**PS 199.1**  
**FEYNMANN SEMINAR I**

**1 unit**

*The first of the three-semester research oriented course leading to the student's undergraduate thesis.*

This course introduces students to the critical discussion of selected topics in Physics. Students apply the various principles and concepts learned from the undergraduate courses in research laboratories.

**PS 199.2**  
**FEYNMANN SEMINAR II**

**1 unit**

*The second of the three-semester research oriented course leading to the student's undergraduate thesis.*

This course introduces students to the discipline and rigor of scientific writing. Students are expected to demonstrate the skill of formal scientific writing through project proposal defense or submission of scientific work in conferences.

**PS 199.3**  
**FEYNMANN SEMINAR III**

**1 unit**

*The third of the three-semester research oriented course leading to the student's undergraduate thesis.*

In this course, students are expected to continue their scientific research in their research laboratory. At the end of the semester, the students are expected to present to the department their projects in an oral thesis defense.

**PS 199.5  
UNDERGRADUATE  
THESIS I**

**1 unit**

*The first of the four-semester research oriented course leading to the student's undergraduate thesis.*

This course initiates the student to start a research project to work on through critical discussion of selected topics in Physics in research meetings and laboratory or field work. Students apply the various principles and concepts learned from the undergraduate courses in research laboratories.

**PS 199.6  
UNDERGRADUATE  
THESIS II**

**2 units**

*The second of the four-semester research oriented course leading to the student's undergraduate thesis.*

This course continues the student's research work through regular research meetings and consultations with the adviser. It introduces the student to the rigor of scientific writing through project proposal.

**PS 199.7  
UNDERGRADUATE  
THESIS III**

**2 units**

*The third of the four-semester research oriented course leading to the student's undergraduate thesis.*

This course continues the student's research work through regular research meetings and consultations with the adviser. Students are encouraged to write and submit their research outputs to local or international conferences or to ISI journals.

**PS 199.8  
UNDERGRADUATE  
THESIS IV**

**1 unit**

*The last of the four-semester research oriented course leading to the student's undergraduate thesis.*

This course continues the student's research activity through regular research meetings. At the end of the course, the students are expected to write, submit and present to the department their projects in an oral thesis defense.

*the*  
SCHOOL  
*of* SOCIAL  
SCIENCES

Filomeno V. Aguilar, Jr., Ph. D.  
*DEAN*





Room 200 Ricardo & Dr. Rosita Leong Hall  
(632) 426-6001 loc. 5208/5209  
fax: (632) 926-5118; 929-5397  
chinesestudies.soss@ateneo.edu

## CHINESE STUDIES

**Daisy C. See**  
*Director*

**Faculty  
Professor**  
Ellen H. Palanca

**Assistant Professors**  
Clark L. Alejandrino  
Daisy C. See

**Lecturers**  
Sidney Christopher T. Bata  
Charles Joseph G. De Guzman  
Aristotle C. Dy, S.J.  
Song Bee Y. Dy  
Rosa Concepcion R.H. Ladrido  
Aurora Roxas-Lim  
Benito O. Lim  
Li-Ling Ma  
Gloria J. Mercado  
Francisco V. Navarro V  
Jubilee G. Ong  
Teresita Ang See  
Erin T. Sy  
Michael B. Syson  
Jane T. Yugioksing

The Chinese Studies Program seeks to impart knowledge and develop expertise in Chinese studies in order to improve the relations between the Philippines and China through a better understanding of China, promote more harmonious relations between ethnic Chinese and larger Filipino communities, increase the understanding of the Chinese heritage of Philippine culture, and promote Ateneo's vision of person-for-others through the teaching of certain Chinese values.

This vision is achieved by teaching Chinese language and culture and Chinese studies-related courses in cooperation with other departments in the School of Social Sciences and with other Loyola tertiary schools; conducting research in Chinese studies independently, in cooperation, or in coordination with other units within or outside the University; and serving as a link to the Philippine community through its cooperation with other institutions or organizations and its sponsorship of public fora on issues related to Chinese studies.

The Chinese Studies Program offers both major and minor programs. These programs provide students keys to the opportunities unleashed by China's economic growth through language instruction and courses on Chinese history, politics, economics, society, and culture. They open graduates to wider options, particularly in business, foreign service, and research.

## BACHELOR OF ARTS, MAJOR IN CHINESE STUDIES

The program offers a comprehensive knowledge of Mandarin Chinese and an understanding of Chinese history and culture. The business track covers the fundamentals of business in a Chinese context. The humanities track focuses on aesthetic theories and the literature and arts of China. The social sciences track provides a broad introduction to the social realities in China and frameworks for analyzing them.

Students who choose the Junior Year Abroad will have three semesters during their third year: April to July at ADMU, August to December (Fall Term) and February to May (Spring Term) at The Jesuit Beijing Center for Chinese Studies (TBC) or Peking University in Beijing, China.

## BACHELOR OF ARTS, MAJOR IN CHINESE STUDIES BUSINESS TRACK

### FIRST YEAR

<u>First Semester</u>	<u>Units</u>	<u>Second Semester</u>	<u>Units</u>
EN 11 Communication in English I	3	EN 12 Communication in English II	3
LIT 13 Introduction to Fiction	3	LIT 14 Introduction to Poetry and Drama	3
MA 11 Modern Mathematics I	3	MA 12 Modern Mathematics II	3
FIL 11 Sining ng Pakikipagtalastasan sa Filipino I	3	FIL 12 Sining ng Pakikipagtalastasan sa Filipino II	3
NATSCI 1A Natural Science, Lecture	3	NATSCI 2A Natural Science, Lecture	3
NATSCI 1B Natural Science, Laboratory	1	NATSCI 2B Natural Science, Laboratory	1
PE 1 Physical Education	(2)	PE 2 Physical Education	(2)
INTAC 1 Introduction to Ateneo Culture and Traditions	(0)	INTAC 2 Introduction to Ateneo Culture and Traditions	(0)
<i>Total:</i>	<i>16</i>	<i>Total:</i>	<i>16</i>

### SECOND YEAR

<u>First Semester</u>	<u>Units</u>	<u>Second Semester</u>	<u>Units</u>
FIL 14 Panitikan ng Pilipinas	3	CHN 2 Chinese Mandarin and Culture 2	3
SA 21 Introduction to Sociology and Anthropology	3	FIN 101 Fundamentals of Finance	3
TH 121 An Introduction to Doing a Catholic Theology	3	HI 16 Asian History	3
EC 102 Basic Economics, Agrarian Reform and Taxation	3	SCI 10 Science and Society	3
ACC 15 Fundamentals of Accounting	3	PSY 101 General Psychology	3
CHN 1 Chinese Mandarin and Culture 1	3	POS 100 Politics and Governance	3
PE 3 Physical Education	(2)	PE 4 Physical Education	(2)
NSTP 1 National Service Training Program	(3)	NSTP 2 National Service Training Program	(3)
<i>Total:</i>	<i>18</i>	<i>Total:</i>	<i>18</i>

### THIRD YEAR

<u>First Semester</u>	<u>Units</u>	<u>Second Semester</u>	<u>Units</u>
PH 101 Philosophy of the Human Person I	3	CHN 4 Intermediate Chinese 2	3
CHN 10 History of China	3	MKT 101 Principles of Marketing	3
CHN 3 Intermediate Chinese 1	3	PH 102 Philosophy of the Human Person II	3
TH 131 Marriage, Family Life and Human Sexuality in a Catholic Perspective	3	CHN 21 Government and Politics of China	3
CHN 20 Modern Chinese Economy	3	CHN 30 Chinese Philosophy	3
CHN 47 Cross-Cultural Communication in the Chinese Context	3	CHN 40 Doing Business in China	3
<i>Total:</i>	<i>18</i>	<i>Total:</i>	<i>18</i>

### FOURTH YEAR

<u>First Semester</u>	<u>Units</u>	<u>Second Semester</u>	<u>Units</u>
PH 103 Philosophy of Religion	3	PH 104 Foundations of Moral Value	3
TH 141 A Theology of the Catholic Social Vision	3	TH 151 The Catholic Commitment of Today's Filipino: A Synthesis	3
HI 165 Rizal and the Emergence of the Philippine Nation	3	HI 166 Philippine History	3
CHN 99 Research Methods	3	CHN 6 Practical Chinese for Business	3
CHN 5 Intermediate Chinese 3	3	CHN 100 Research in Chinese Studies	3
FREE ELECTIVE	3	FREE ELECTIVE	3
<i>Total:</i>	<i>18</i>	<i>Total:</i>	<i>18</i>

Total Number of Academic Units: 140  
Curriculum Effective Freshman Batch SY 2008-2009

# BACHELOR OF ARTS, MAJOR IN CHINESE STUDIES

## BUSINESS TRACK –

### JUNIOR YEAR ABROAD (JYA) OPTION

#### FIRST YEAR

<u>First Semester</u>	<u>Units</u>	<u>Second Semester</u>	<u>Units</u>
EN 11      Communication in English I	3	EN 12      Communication in English II	3
LIT 13      Introduction to Fiction	3	LIT 14      Introduction to Poetry and Drama	3
MA 11      Modern Mathematics I	3	MA 12      Modern Mathematics II	3
FIL 11      Sining ng Pakikipagtalastasan sa Filipino I	3	FIL 12      Sining ng Pakikipagtalastasan sa Filipino II	3
NATSCI 1A      Natural Science, Lecture	3	NATSCI 2A      Natural Science, Lecture	3
NATSCI 1B      Natural Science, Laboratory	1	NATSCI 2B      Natural Science, Laboratory	1
PE 1      Physical Education	(2)	PE 2      Physical Education	(2)
INTAC 1      Introduction to Ateneo Culture and Traditions	(0)	INTAC 2      Introduction to Ateneo Culture and Traditions	(0)
<i>Total:</i> 16		<i>Total:</i> 16	

#### SECOND YEAR

<u>First Semester</u>	<u>Units</u>	<u>Second Semester</u>	<u>Units</u>
SA 21      Introduction to Sociology and Anthropology	3	CHN 2      Chinese Mandarin and Culture 2	3
TH 121      An Introduction to Doing a Catholic Theology	3	FIL 14      Panitikan ng Pilipinas	3
EC 102      Basic Economics, Agrarian Reform and Taxation	3	FIN 101      Fundamentals of Finance	3
ACC 15      Fundamentals of Accounting	3	SCI 10      Science and Society	3
HI 16      Asian History	3	PSY 101      General Psychology	3
CHN 1      Chinese Mandarin and Culture 1	3	POS 100      Politics and Governance	3
PE 3      Physical Education	(2)	PE 4      Physical Education	(2)
NSTP 1      National Service Training Program	(3)	NSTP 2      National Service Training Program	(3)
<i>Total:</i> 18		<i>Total:</i> 18	

#### THIRD YEAR

<u>First Semester (April to July)</u>	<u>Units</u>	<u>Junior Year Abroad Fall Term (August to December)</u>	<u>Units</u>
PH 101      Philosophy of the Human Person I	3	CHN 4      Intermediate Chinese 2	3
CHN 3      Intermediate Chinese 1	3	CHN BUS 1      Chinese Economics and Business Systems	3
TH 131      Marriage, Family Life and Human Sexuality in a Catholic Perspective	3	CHN      Chinese Government: Power, Politics and Policy	3
CHN 47      Cross-Cultural Communication in the Chinese Context	3	FREE ELECTIVE	3
<i>Total:</i> 12		<i>Total:</i> 12	

#### Junior Year Abroad Spring Term (February to May)

CHN BUS 2      Doing Business in China	3
CHN BUS 3      Principles of Marketing	3
CHN      Intermediate Chinese 3	3
CHN      Chinese Ethics and Asian Values	3
<i>Total:</i> 12	

#### FOURTH YEAR

<u>First Semester</u>	<u>Units</u>	<u>Second Semester</u>	<u>Units</u>
PH 103      Philosophy of Religion	3	PH 104      Foundations of Moral Value	3
TH 151      The Catholic Commitment of Today's Filipino: A Synthesis	3	TH 141      A Theology of the Catholic Social Vision	3
HI 165      Rizal and the Emergence of the Philippine Nation	3	HI 166      Philippine History	3
CHN 99      Research Methods	3	PH 102      Philosophy of the Human Person II	3
CHN 10      History of China	3	CHN 6      Practical Chinese for Business	3
FREE ELECTIVE	3	CHN 100      Research in Chinese Studies	3
<i>Total:</i> 18		<i>Total:</i> 18	

Total Number of Academic Units: 140  
Curriculum Effective Freshman Batch SY 2008-2009

## BACHELOR OF ARTS, MAJOR IN CHINESE STUDIES HUMANITIES TRACK

### FIRST YEAR

<u>First Semester</u>	<u>Units</u>	<u>Second Semester</u>	<u>Units</u>
EN 11 Communication in English I	3	EN 12 Communication in English II	3
LIT 13 Introduction to Fiction	3	LIT 14 Introduction to Poetry and Drama	3
MA 11 Modern Mathematics I	3	MA 12 Modern Mathematics II	3
FIL 11 Sining ng Pakikipagtalastasan sa Filipino I	3	FIL 12 Sining ng Pakikipagtalastasan sa Filipino II	3
NATSCI 1A Natural Science, Lecture	3	NATSCI 2A Natural Science, Lecture	3
NATSCI 1B Natural Science, Laboratory	1	NATSCI 2B Natural Science, Laboratory	1
PE 1 Physical Education	(2)	PE 2 Physical Education	(2)
INTAC 1 Introduction to Ateneo Culture and Traditions	(0)	INTAC 2 Introduction to Ateneo Culture and Traditions	(0)
<i>Total:</i>	<i>16</i>	<i>Total:</i>	<i>16</i>

### SECOND YEAR

<u>First Semester</u>	<u>Units</u>	<u>Second Semester</u>	<u>Units</u>
FIL 14 Panitikan ng Pilipinas	3	CHN 2 Chinese Mandarin and Culture 2	3
SA 21 Introduction to Sociology and Anthropology	3	HUM 142 Interdisciplinary Approaches to the Arts	3
TH 121 An Introduction to Doing a Catholic Theology	3	HI 16 Asian History	3
EC 102 Basic Economics, Agrarian Reform and Taxation	3	SCI 10 Science and Society	3
FA 101 Introduction to Aesthetics	3	PSY 101 General Psychology	3
CHN 1 Chinese Mandarin and Culture 1	3	POS 100 Politics and Governance	3
PE 3 Physical Education	(2)	PE 4 Physical Education	(2)
NSTP 1 National Service Training Program	(3)	NSTP 2 National Service Training Program	(3)
<i>Total:</i>	<i>18</i>	<i>Total:</i>	<i>18</i>

### THIRD YEAR

<u>First Semester</u>	<u>Units</u>	<u>Second Semester</u>	<u>Units</u>
PH 101 Philosophy of the Human Person I	3	CHN 4 Intermediate Chinese 2	3
CHN 10 History of China	3	PH 102 Philosophy of the Human Person II	3
CHN 3 Intermediate Chinese 1	3	CHN 21 Government and Politics of China	3
TH 131 Marriage, Family Life and Human Sexuality in a Catholic Perspective	3	CHN 30 Chinese Philosophy	3
CHN 35 Introduction to Chinese Literature	3	CHN HUM ELEC	3
CHN 47 Cross-Cultural Communication in the Chinese Context	3	FREE ELECTIVE	3
<i>Total:</i>	<i>18</i>	<i>Total:</i>	<i>18</i>

### FOURTH YEAR

<u>First Semester</u>	<u>Units</u>	<u>Second Semester</u>	<u>Units</u>
PH 103 Philosophy of Religion	3	PH 104 Foundations of Moral Value	3
TH 141 A Theology of the Catholic Social Vision	3	TH 151 The Catholic Commitment of Today's Filipino: A Synthesis	3
HI 165 Rizal and the Emergence of the Philippine Nation	3	HI 166 Philippine History	3
CHN 99 Research Methods	3	CHN 100 Research in Chinese Studies	3
CHN 5 Intermediate Chinese 3	3	CHN HUM ELEC	3
FREE ELECTIVE	3	CHN LANG ELEC	3
<i>Total:</i>	<i>18</i>	<i>Total:</i>	<i>18</i>

Total Number of Academic Units: 140  
Curriculum Effective Freshman Batch SY 2008-2009

# BACHELOR OF ARTS, MAJOR IN CHINESE STUDIES

## HUMANITIES TRACK –

### JUNIOR YEAR ABROAD (JYA) OPTION

#### FIRST YEAR

<u>First Semester</u>	<u>Units</u>	<u>Second Semester</u>	<u>Units</u>
EN 11 Communication in English I	3	EN 12 Communication in English II	3
LIT 13 Introduction to Fiction	3	LIT 14 Introduction to Poetry and Drama	3
MA 11 Modern Mathematics I	3	MA 12 Modern Mathematics II	3
FIL 11 Sining ng Pakikipagtalastasan sa Filipino I	3	FIL 12 Sining ng Pakikipagtalastasan sa Filipino II	3
NATSCI 1A Natural Science, Lecture	3	NATSCI 2A Natural Science, Lecture	3
NATSCI 1B Natural Science, Laboratory	1	NATSCI 2B Natural Science, Laboratory	1
PE 1 Physical Education	(2)	PE 2 Physical Education	(2)
INTAC 1 Introduction to Ateneo Culture and Traditions	(0)	INTAC 2 Introduction to Ateneo Culture and Traditions	(0)
<i>Total:</i>	<i>16</i>	<i>Total:</i>	<i>16</i>

#### SECOND YEAR

<u>First Semester</u>	<u>Units</u>	<u>Second Semester</u>	<u>Units</u>
FIL 14 Panitikan ng Pilipinas	3	CHN 2 Chinese Mandarin and Culture 2	3
SA 21 Introduction to Sociology and Anthropology	3	HUM 142 Interdisciplinary Approaches to the Arts	3
TH 121 An Introduction to Doing a Catholic Theology	3	HI 16 Asian History	3
EC 102 Basic Economics, Agrarian Reform and Taxation	3	SCI 10 Science and Society	3
FA 101 Introduction to Aesthetics	3	PSY 101 General Psychology	3
CHN 1 Chinese Mandarin and Culture 1	3	POS 100 Politics and Governance	3
PE 3 Physical Education	(2)	PE 4 Physical Education	(2)
NSTP 1 National Service Training Program	(3)	NSTP 2 National Service Training Program	(3)
<i>Total:</i>	<i>18</i>	<i>Total:</i>	<i>18</i>

#### THIRD YEAR

<u>First Semester (April to July)</u>	<u>Units</u>	<u>Junior Year Abroad Fall Term (August to December)</u>	<u>Units</u>
PH 101 Philosophy of the Human Person I	3	CHN 4 Intermediate Chinese 2	3
CHN 3 Intermediate Chinese 1	3	CHN Chinese Government: Power, Politics and Policy	3
TH 131 Marriage, Family Life and Human Sexuality in a Catholic Perspective	3	CHN HUM ELEC	3
CHN 47 Cross-Cultural Communication in the Chinese Context	3	CHN HUM 1* or FREE ELECTIVE	3
<i>Total:</i>	<i>12</i>	<i>Total:</i>	<i>12</i>

#### Junior Year Abroad Spring Term (February to May)

CHN 5 Intermediate Chinese 3	3
CHN Chinese Ethics and Asian Values	3
CHN HUM ELEC	3
CHN HUM 1* or FREE ELECTIVE	3
<i>Total:</i>	<i>12</i>

#### FOURTH YEAR

<u>First Semester</u>	<u>Units</u>	<u>Second Semester</u>	<u>Units</u>
PH 103 Philosophy of Religion	3	PH 104 Foundations of Moral Value	3
TH 151 The Catholic Commitment of Today's Filipino: A Synthesis	3	TH 141 A Theology of the Catholic Social Vision	3
HI 165 Rizal and the Emergence of the Philippine Nation	3	HI 166 Philippine History	3
CHN 99 Research Methods	3	PH 102 Philosophy of the Human Person II	3
CHN 10 History of China	3	CHN LANG ELEC	3
FREE ELECTIVE	3	CHN 100 Research in Chinese Studies	3
<i>Total:</i>	<i>18</i>	<i>Total:</i>	<i>18</i>

Total Number of Academic Units: 140

\*Student must accomplish Chn Hum 1 in either one of the JYA semesters  
Curriculum Effective Freshman Batch SY 2008-2009

## BACHELOR OF ARTS, MAJOR IN CHINESE STUDIES SOCIAL SCIENCES TRACK

### FIRST YEAR

<u>First Semester</u>	<u>Units</u>	<u>Second Semester</u>	<u>Units</u>
EN 11 Communication in English I	3	EN 12 Communication in English II	3
LIT 13 Introduction to Fiction	3	LIT 14 Introduction to Poetry and Drama	3
MA 11 Modern Mathematics I	3	MA 12 Modern Mathematics II	3
FIL 11 Sining ng Pakikipagtalastasan sa Filipino I	3	FIL 12 Sining ng Pakikipagtalastasan sa Filipino II	3
NATSCI 1A Natural Science, Lecture	3	NATSCI 2A Natural Science, Lecture	3
NATSCI 1B Natural Science, Laboratory	1	NATSCI 2B Natural Science, Laboratory	1
PE 1 Physical Education	(2)	PE 2 Physical Education	(2)
INTAC 1 Introduction to Ateneo Culture and Traditions	(0)	INTAC 2 Introduction to Ateneo Culture and Traditions	(0)
<i>Total:</i>	<i>16</i>	<i>Total:</i>	<i>16</i>

### SECOND YEAR

<u>First Semester</u>	<u>Units</u>	<u>Second Semester</u>	<u>Units</u>
FIL 14 Panitikan ng Pilipinas	3	CHN 2 Chinese Mandarin and Culture 2	3
SA 21 Introduction to Sociology and Anthropology	3	SA 100 Basic Statistics for Social Sciences	3
TH 121 An Introduction to Doing a Catholic Theology	3	SA 101 Survey of Social Theories	3
EC 102 Basic Economics, Agrarian Reform and Taxation	3	SCI 10 Science and Society	3
HI 16 Asian History	3	PSY 101 General Psychology	3
CHN 1 Chinese Mandarin and Culture 1	3	POS 100 Politics and Governance	3
PE 3 Physical Education	(2)	PE 4 Physical Education	(2)
NSTP 1 National Service Training Program	(3)	NSTP 2 National Service Training Program	(3)
<i>Total:</i>	<i>18</i>	<i>Total:</i>	<i>18</i>

### THIRD YEAR

<u>First Semester</u>	<u>Units</u>	<u>Second Semester</u>	<u>Units</u>
PH 101 Philosophy of the Human Person I	3	CHN 4 Intermediate Chinese 2	3
CHN 10 History of China	3	PH 102 Philosophy of the Human Person II	3
CHN 3 Intermediate Chinese 1	3	CHN 21 Government and Politics of China	3
TH 131 Marriage, Family Life and Human Sexuality in a Catholic Perspective	3	CHN 30 Chinese Philosophy	3
CHN 20 Modern Chinese Economy	3	FREE ELECTIVE	3
CHN 47 Cross-Cultural Communication in a Chinese Context	3	CHN SOCSCI ELEC	3
<i>Total:</i>	<i>18</i>	<i>Total:</i>	<i>18</i>

### FOURTH YEAR

<u>First Semester</u>	<u>Units</u>	<u>Second Semester</u>	<u>Units</u>
PH 103 Philosophy of Religion	3	PH 104 Foundations of Moral Value	3
TH 141 A Theology of the Catholic Social Vision	3	TH 151 The Catholic Commitment of Today's Filipino: A Synthesis	3
HI 165 Rizal and the Emergence of the Philippine Nation	3	HI 166 Philippine History	3
CHN 99 Research Methods	3	CHN 100 Research in Chinese Studies	3
CHN 5 Intermediate Chinese 3	3	CHN LANG ELEC	3
FREE ELECTIVE	3	CHN SOCSCI ELEC	3
<i>Total:</i>	<i>18</i>	<i>Total:</i>	<i>18</i>

Total Number of Academic Units: 140  
Curriculum Effective Freshman Batch SY 2008-2009

# BACHELOR OF ARTS, MAJOR IN CHINESE STUDIES

## SOCIAL SCIENCES TRACK –

### JUNIOR YEAR ABROAD (JYA) OPTION

#### FIRST YEAR

<u>First Semester</u>	<u>Units</u>	<u>Second Semester</u>	<u>Units</u>
EN 11 Communication in English I	3	EN 12 Communication in English II	3
LIT 13 Introduction to Fiction	3	LIT 14 Introduction to Poetry and Drama	3
MA 11 Modern Mathematics I	3	MA 12 Modern Mathematics II	3
FIL 11 Sining ng Pakikipagtalastasan sa Filipino I	3	FIL 12 Sining ng Pakikipagtalastasan sa Filipino II	3
NATSCI 1A Natural Science, Lecture	3	NATSCI 2A Natural Science, Lecture	3
NATSCI 1B Natural Science, Laboratory	1	NATSCI 2B Natural Science, Laboratory	1
PE 1 Physical Education	(2)	PE 2 Physical Education	(2)
INTAC 1 Introduction to Ateneo Culture and Traditions	(0)	INTAC 2 Introduction to Ateneo Culture and Traditions	(0)
<i>Total:</i>	<i>16</i>	<i>Total:</i>	<i>16</i>

#### SECOND YEAR

<u>First Semester</u>	<u>Units</u>	<u>Second Semester</u>	<u>Units</u>
FIL 14 Panitikan ng Pilipinas	3	CHN 2 Chinese Mandarin and Culture 2	3
SA 21 Introduction to Sociology and Anthropology	3	SA 100 Basic Statistics for Social Sciences	3
TH 121 An Introduction to Doing a Catholic Theology	3	SA 101 Survey of Social Theories	3
EC 102 Basic Economics, Agrarian Reform and Taxation	3	SCI 10 Science and Society	3
HI 16 Asian History	3	PSY 101 General Psychology	3
CHN 1 Chinese Mandarin and Culture 1	3	POS 100 Politics and Governance	3
PE 3 Physical Education	(2)	PE 4 Physical Education	(2)
NSTP 1 National Service Training Program	(3)	NSTP 2 National Service Training Program	(3)
<i>Total:</i>	<i>18</i>	<i>Total:</i>	<i>18</i>

#### THIRD YEAR

<u>First Semester (April to July)</u>	<u>Units</u>	<u>Junior Year Abroad Fall Term (August to December)</u>	<u>Units</u>
PH 101 Philosophy of the Human Person I	3	CHN 4 Intermediate Chinese 2	3
CHN 3 Intermediate Chinese 1	3	CHN Chinese Government: Power, Politics and Policy	3
TH 131 Marriage, Family Life and Human Sexuality in a Catholic Perspective	3	CHN SOCSCI 1 Chinese Economics and Business Systems	3
CHN 47 Cross-Cultural Communication in the Chinese Context	3	CHN SOCSCI ELEC	3
<i>Total:</i>	<i>12</i>	<i>Total:</i>	<i>12</i>

#### Junior Year Abroad Spring Term (February to May)

CHN SOCSCI ELEC	3
FREE ELECTIVE	3
CHN 5 Intermediate Chinese 3	3
CHN Chinese Ethics and Asian Values	3
<i>Total:</i>	<i>12</i>

#### FOURTH YEAR

<u>First Semester</u>	<u>Units</u>	<u>Second Semester</u>	<u>Units</u>
PH 103 Philosophy of Religion	3	PH 104 Foundations of Moral Value	3
TH 151 The Catholic Commitment of Today's Filipino: A Synthesis	3	TH 141 A Theology of the Catholic Social Vision	3
HI 165 Rizal and the Emergence of the Philippine Nation	3	HI 166 Philippine History	3
CHN 99 Research Methods	3	PH 102 Philosophy of the Human Person II	3
CHN 10 History of China	3	CHN LANG ELEC	3
FREE ELECTIVE	3	CHN 100 Research in Chinese Studies	3
<i>Total:</i>	<i>18</i>	<i>Total:</i>	<i>18</i>

Total Number of Academic Units: 140  
Curriculum Effective Freshman Batch SY: 2008-2009



## MINOR IN CHINESE STUDIES

Since the opening up of China to the outside world in 1979, China's international presence has become very prominent. For the Philippines, centuries-old cultural, economic and political ties with China have increased many times over. This development has aroused much interest in learning about China. Knowledge of China—its history, culture, people and language, as well as its political and economic systems—will help the Philippines in strengthening its ties with China, a close neighbor fast becoming a superpower. The Minor in Chinese Studies offers students keys to the opportunities unleashed by China's economic growth through instruction and courses on Chinese history, politics, economics, society, and culture. It opens graduates to wider options, particularly in business, foreign service, and research.

The Minor in Chinese Studies is open to all Loyola Schools undergraduate students except those pursuing the AB Chinese Studies and students with double major/degree status in the Chinese Studies Program. To complete the minor program, students take 15 units, at least 12 units of which are outside the Loyola Schools core and required major courses. Course requirements are:

Two Chinese Mandarin courses*	6 units
Chinese Studies electives**	9 units

\* CHN 8 and 9 cannot be credited as Chinese Mandarin Courses.

\*\*From the 9 units of electives, 3 units can be used for another Chinese language course.

### List of Chinese Mandarin language courses:

CHN 1	Chinese Mandarin and Culture 1	3 units
CHN 2	Chinese Mandarin and Culture 2	3 units
CHN 3	Intermediate Chinese 1	3 units
CHN 4	Intermediate Chinese 2	3 units
CHN 5	Intermediate Chinese 3	3 units
CHN 6	Practical Chinese for Business	3 units
CHN 7	Classical Chinese	3 units

### List of Chinese Studies Electives:

CHN 8	Hokkien 1	3 units
CHN 9	Hokkien 2	3 units
CHN 10 (HI 16.6)	History of China	3 units
CHN 10.3 (HI 138)	History of Modern China	3 units
CHN 20 (EC 185.48)	Modern Chinese Economy	3 units
CHN 21 (POS 196.1)	Government and Politics of China	3 units
CHN 22 (POS 139.4)	China's Foreign Policy	3 units
CHN 23 (POS 181.3/JSP 120)	China-Japan Relations	3 units
CHN 24 (SA 199.20)	Introduction to Chinese Society	3 units
CHN 25	Food and Chinese Culture	3 units
CHN 26	Contemporary History of Conflicts in East Asia	3 units
CHN 30 (PH 112)	Chinese Philosophy	3 units
CHN 30.1	Daoist Philosophy	3 units

CHN 31 (PH 114)	Modern Chinese Philosophy	3 units
CHN 33	Chinese Philosophy in Chinese	3 units
CHN 35 (LIT 171)	Introduction to Chinese Literature	3 units
CHN 40 (LS 172)	Doing Business in China	3 units
CHN 45 (COM 117.5)	History and Culture in Chinese Films	3 units
CHN 46 (COM 110.9)	Mass Media in China	3 units
CHN 47	Cross-Cultural Communication in a Chinese Context	3 units
CHN 50	Traditional Chinese Medicine	3 units
CHN 50.1	Mind-Body Health in Chinese Medicine	3 units
CHN 51	Gender and Sexuality in Chinese Medicine	3 units
CHN 52	Science and Technology in China	3 units
CHN 60 (FA 175.10)	Chinese Painting	3 units
CHN 60.1	Basic Chinese Calligraphy	3 units
CHN 61 (IS 131.7/FA 167.11)	Chinese Art and Society	3 units
CHN 62	Chinese Landscape Painting	3 units
CHN 70 (SA 121/HI 189.7)	The Ethnic Chinese in Philippine Life	3 units
CHN 99	Research Methods	3 units
CHN 100	Research in Chinese Studies	3 units

Students who take Chinese Studies courses abroad (e.g. Junior Term Abroad and other foreign exchange programs) during residency at the Ateneo may have these courses credited as elective courses upon presentation of certification and on the condition that at least 9 units for the minor should be taken in the Loyola Schools. These 9 units should be a course offered by or have an equivalent under the Chinese Studies Program.

## COURSE OFFERINGS

### CHN 1 / FLC 1CHN CHINESE MANDARIN AND CULTURE 1

**3 units**

This is an introductory course to Chinese Mandarin using Hanyu Pinyin (romanized phonetic approach), with emphasis on conversation through situational dialogues. Both the traditional complex form and simplified form of Chinese characters are introduced. The different aspects of Chinese culture are also introduced.

### CHN 2 CHINESE MANDARIN AND CULTURE 2

**3 units**

**Pre-requisite: CHN 1**

This course is a continuation of CHN 1, focusing on reading and writing to strengthen and broaden the knowledge of Chinese Mandarin and Chinese culture.

### CHN 3 INTERMEDIATE CHINESE 1

**3 units**

**Pre-requisite: CHN 2 or  
Consent of instructor**

This course is an integration of conversation, listening, reading, and writing in Chinese for

students who have enough background and want to learn the language more intensively.

### CHN 4 INTERMEDIATE CHINESE 2

**3 units**

**Pre-requisite: CHN 3 or Consent  
of instructor**

This course is a continuation of CHN 3. This course is an integration of conversation, listening, reading, and writing in Chinese for students who have enough background and want to learn the language more intensively.

**CHN 5**  
**INTERMEDIATE**  
**CHINESE 3**  
**3 units**  
**Pre-requisite: CHN 4 or Consent of instructor**

This course is a continuation of CHN 4. This course is an integration of conversation, listening, reading, and writing in Chinese for students who have enough background and want to learn the language more intensively.

**CHN 6**  
**PRACTICAL CHINESE FOR BUSINESS**  
**3 units**  
**Pre-requisite: CHN 2 or Consent of instructor**

This is a course on practical business conversation and reading of business-related articles in Chinese Mandarin. Both the simplified and classical characters are used interchangeably.

**CHN 7**  
**CLASSICAL CHINESE**  
**3 units**  
**Pre-requisite: CHN 1A or CHN 1B, or equivalent**  
 This course is an introduction to the basic grammatical and syntactic principles of Classical Chinese for further study into any pre-modern Chinese field, whether it be history, philosophy, or literature.

**CHN 8**  
**HOKKIEN 1**  
**3 units**  
 This is an elective course open to students interested to learn Hokkien, the dialect of Fujian Province, the place of origin of the majority of the Chinese in Southeast Asia. Hokkien is also widely spoken among Chinese-Filipinos and is useful for business relations with them.

**CHN 9**  
**HOKKIEN 2**  
**3 units**  
 This is a course designed for students who have some background in the Hokkien dialect, and want to broaden their vocabulary and improve their proficiency.

**CHN 10**  
**HISTORY OF CHINA**  
**3 units**  
 This course is a survey of the history of China from ancient times to the modern period. Topics include traditional China, the coming of the Western world, the establishment of Western hegemony, the Chinese revolutions, and the establishment of the People's Republic of China.

**CHN 10.3**  
**HISTORY OF MODERN CHINA**  
**3 units**  
 This course deals with modern Chinese history from the late Qing period to the Communist regime. Topics include the Canton trade, the Treaty system, dynastic decline up to the Revolution of 1911, the Kuomintang regime, Japan in China, and the Communist conquest of the mainland.

**CHN 20**  
**MODERN CHINESE ECONOMY**  
**3 units**  
**Pre-requisite: EC 102**  
 This course deals with the evolution of the Chinese economy from a centrally-planned system to one that is more market-oriented. The course reviews China's economic growth at the macro level since 1979, and examines the reforms in agriculture, industry, foreign trade, banking, and finance.

**CHN 21**  
**GOVERNMENT AND POLITICS OF CHINA**  
**3 units**  
 This course introduces Chinese government and politics including contemporary issues, covering the basis of the Confucian/Legalist Empire and its failure to modernize; the rise of the Communist Party; Maoism and the politics of China under Mao; and Deng Xiaoping and the post-Mao reforms.

**CHN 22**  
**CHINA'S FOREIGN POLICY**  
**3 units**  
 This is an introduction to China's foreign policy from a historical perspective covering the mid-nineteenth century, the formation of the People's Republic in 1949, leading to the development of Chinese foreign policy, and China's evolving participation in the international community.

**CHN 23**  
**CHINA-JAPAN RELATIONS**  
**3 units**  
 This course is an introduction to the history of relations between China and Japan, and the dynamics of Sino-Japanese relations in times of conflict and peace.

**CHN 24**  
**INTRODUCTION TO CHINESE SOCIETY**  
**3 units**  
 This course examines the complexities of social issues in contemporary China. It approaches Chinese culture and social issues through the lenses of globalization and modernization. It also introduces theoretical tools to explore the state's one child policies, rural/urban division, and health care system in urban China.

**CHN 25  
FOOD AND CHINESE  
CULTURE**

**3 units**

This is an overview of China's culinary history and foodways vis-à-vis Chinese society and culture. It examines the diverse roles that food plays in Chinese cultural history.

**CHN 26  
CONTEMPORARY HISTORY  
OF CONFLICTS IN EAST ASIA  
3 units**

The course examines the conflicts, upheavals and collective trauma that characterized East Asia (China, Japan and Korea) in the last century. The course analyzes how memories of the past are remembered and represented in the public sphere—and even subjected to contestation, negotiation, and utilization as a unifying or a mobilizing force.

**CHN 30  
CHINESE PHILOSOPHY  
3 units**

This course is a survey of Ancient Chinese thought including a meditative study of the classical texts in translation: *The Four Books* as well as the *Tao Te Ching* and the writings of Chuang Tzu.

**CHN 31  
MODERN CHINESE  
PHILOSOPHY**

**3 units**

**Pre-requisite: Fluency in Mandarin**

This course is a survey of Neo-Taoism and Neo-Confucianism as well as the philosophies of China in the 19<sup>th</sup> and 20<sup>th</sup> centuries. This course is taught in Mandarin Chinese.

**CHN 33  
CHINESE PHILOSOPHY IN  
CHINESE**

**3 units**

**Pre-requisite: Proficiency in Chinese Language**

This course is a close reading of Chinese philosophical texts in Chinese such as *A History of Chinese Philosophy* by Chang Ch'I-chung and *The Four Books* for students who have enough fluency in Chinese.

**CHN 35  
INTRODUCTION TO CHINESE  
LITERATURE**

**3 units**

This course is a survey of Chinese literature from the early Qin dynasty to the post-Mao era, focusing on major literary genres, writers, and masterpieces. English translations are used.

**CHN 40  
DOING BUSINESS  
IN CHINA**

**3 units**

This is a comparative study of the mode of entering into business in China through readings and cases on foreign businesses in China. Emphasis is on the nuances of negotiating with the Chinese through an understanding of *The Art of War* and other strategies often used there.

**CHN 45  
HISTORY AND CULTURE IN  
CHINESE FILMS**

**3 units**

This course explores Chinese history and culture through highly acclaimed contemporary Chinese films. Featured films include the works of Zhang Yimou, Chen Kaige, and Ang Lee (directors); Gong Li, Winston Chao, and Maggie Cheung (actors). All films are in Mandarin Chinese with English subtitles.

**CHN 46  
MASS MEDIA IN CHINA**

**3 units**

This course explores the role of mass media in China in terms of communication and information dissemination and the politics of information control. The course

examines the interplay of communication and change in Chinese society and culture from a historical, cultural, institutional, and theoretical perspective.

**CHN 47  
CROSS-CULTURAL  
COMMUNICATION IN A  
CHINESE CONTEXT**

**3 units**

This is a course on the nuances of communications between non-Chinese and Chinese, and among Chinese from different regions, for students with basic knowledge of the Chinese language. Lectures are complemented by teacher-guided case analysis and simulated communication.

**CHN 50  
TRADITIONAL CHINESE  
MEDICINE**

**3 units**

This is an introductory course on the basic philosophy and principles of Traditional Chinese Medicine (TCM). In the process of learning how the TCM doctor makes a diagnosis and prescribes appropriate treatment, certain basic skills in acupuncture, herbal medicine, and food therapy are taught.

**CHN 50.1  
MIND-BODY HEALTH IN  
CHINESE MEDICINE**

**3 units**

This course investigates the Shen, and its intimate connection with the human body: their nature, dynamics, and relationship in health and in disharmony. This course introduces the Chinese practice of qigong—meditation and energy exercises for mental and physical health—and explores theories on personality and physiognomy, based on Chinese philosophical principles.

**CHN 51  
GENDER AND SEXUALITY IN  
CHINESE MEDICINE**

**3 units**

This course explores the rich and interesting history of sexuality, sex, and gender roles in the long and colorful span of Chinese civilization and their impact on Chinese cultural affairs, philosophy, politics, society, and vice versa.

**CHN 52  
SCIENCE AND TECHNOLOGY  
IN CHINA**

**3 units**

The course surveys the developments in science and technology in China from the earliest period up to contemporary times. It examines scientific and technological contributions of China to the advancement of human civilization. It also discusses the inter-connections between science and technology with various aspects of society.

**CHN 60  
CHINESE PAINTING**

**3 units**

This course is an introduction to the basics of Chinese painting including the basic skills in freehand and brushwork in Chinese traditional painting of bamboo, plums, orchids, and chrysanthemums. Advanced techniques may be taken depending on the ability of the class.

**CHN 60.1  
BASIC CHINESE  
CALLIGRAPHY**

**3 units**

This course equips students with basic skills for calligraphic writing and the art history associated with Chinese art and culture; provides adequate knowledge to appreciate different calligraphic art works from China; and encourages self-expression and

innovation in promoting Chinese culture and art.

**CHN 61  
CHINESE ART AND SOCIETY**  
**3 units**

This course deals with the arts and forms of symbolic expression in China. Emphasis is on the interrelationships of the arts with social, historical, technological, philosophical, and aesthetic developments. Topics include collective expressions that occasion artistic activity; Chinese aesthetic and artistic standards and their application.

**CHN 62  
CHINESE LANDSCAPE  
PAINTING**

**3 units**

This course provides students with the basic knowledge of Chinese Landscape Painting. It is a hands-on class wherein the students learn the different techniques in using the Chinese brush. Students will be rated based on their actual work submitted and improvements in class.

**CHN 70  
THE ETHNIC CHINESE IN  
PHILIPPINE LIFE**

**3 units**

This course explores the role of the Chinese Filipinos in Philippine life from pre-Hispanic times to the present, including the history of Chinese immigration; and the impact and influence of the ethnic Chinese in education, religion, arts, business, and other aspects of contemporary Philippine life.

**CHN 99  
RESEARCH METHODS**

**3 units**

This course is an introduction to the quantitative and qualitative tools used in research—the different research designs and data gathering methodologies

including statistical analysis as applied to research and decision making, statistical description, statistical induction, and the analysis of statistical relationships.

**CHN 100  
RESEARCH IN CHINESE  
STUDIES**

**3 units**

This is a course designed to help the graduating student integrate his/her study of Chinese studies. With the guidance of a faculty member, students write a research paper on a Chinese business, humanities, or social sciences topics.

3/F Social Sciences Building  
(632) 426-6001 loc. 5210  
fax: (632) 426-6133  
communication.soss@ateneo.edu  
<http://www.ateneo.edu/ls/soss/communication>  
<http://acfj.ateneo.edu>

# COMMUNICATION

**Mark Vincent L. Escaler**  
*Chair*

**Jaime Manuel Q. Flores**  
*Acting Chair*

**Cheryl B. Nasol**  
*Associate Chair*

**Faculty**  
*Associate Professors*  
Nicasio D. Cruz, S.J.  
Violet B. Valdez

*Assistant Professors*  
Mark Vincent L. Escaler  
Maria Inez Angela Z. Ponce de Leon  
Severino R. Sarmenta, Jr.

*Instructors*  
Jaime Manuel Q. Flores  
Estelle Marie M. Ladrado  
Jozon A. Lorenzana  
Cheryl B. Nasol  
Jose Angelo D. Supangco  
Andrew Albert J. Ty

*Lecturers*  
Norman Timothy A. Agatep • Jenna Mae L. Atun •  
Bernard G. Bagaman • Arlene B. Burgos • Jan T. Co  
Chua • Jose Agustin C. Cuenco • Ruel S. De Vera •  
Nanette F. Diyco • Jimmy A. Domingo • Francis L.  
Escaler • Elgene Lawrence C. Feliciano • Ma. Rosario  
F. Hofileña • Jo Aurea M. Imbong • Marie Jamora •  
Rafael R. Jimenez • Isabel E. Kenny • Patricia S.  
Laurel-Filart • Karen Anne V. Liao • Jose Antonio R.  
Magno • Greg V. Martin III • Nonna P. Nañagas •  
Jaime Ramon M. Paredes • Francis Xavier E. Pasion •  
Anna Cielo Timbol-Perez • Danton R. Remoto • Boots  
Anson Roa • Miguel Martin D. Sarmenta • Jonathan  
D. Torres • Victor T. Valbuena • Chin Wah Y. Wong

The Department of Communication trains competent, creative and ethical practitioners, and educators and audiences of traditional and new media. It seeks to infuse the study of communication with the Ignatian values of excellence, service, and the promotion of justice. Its programs prepare students to work in various communication contexts such as audiovisual and multimedia production, journalism, advertising, and public relations in sectors as diverse as education, government, industry, and development.

The curricular offerings of the Department lead, in the undergraduate level, to the Bachelor of Arts, major in Communication and in the graduate level to the Master of Arts, major in Communication and the Master of Arts, major in Journalism.



## BACHELOR OF ARTS, MAJOR IN COMMUNICATION

The Bachelor of Arts, major in Communication program enables students to engage with the constantly changing landscape of contemporary communication and media by offering an interdisciplinary curriculum composed of flexible tracks of studies in specialized communication fields. These are: image and sound production, journalism, film and media studies, and advertising and public relations. Grounded on a foundation of communication and media theory, research, and ethics; undergraduate students specialize in one of these tracks of study and follow a progression of courses that may be customized to his or her interest in the field. The program also includes a summer practicum entailing professional experience in communication-related institutions and the crafting of a thesis as the culmination of their academic work.

The program equips students with the capabilities, creativity, vision, and values to pursue careers in multimedia and digital video production, print, broadcast and new media journalism, communication education, advertising, public relations, and other careers where creativity, leadership, and an acute understanding of communication is essential.

### FIRST YEAR

<u>First Semester</u>		<u>Units</u>	<u>Second Semester</u>		<u>Units</u>
EN 11	Communication in English I	3	EN 12	Communication in English II	3
LIT 13	Introduction to Fiction	3	LIT 14	Introduction to Poetry and Drama	3
MA 11	Modern Mathematics I	3	MA 12	Modern Mathematics II	3
FIL 11	Sining ng Pakikipagtalastasan sa Filipino I	3	FIL 12	Sining ng Pakikipagtalastasan sa Filipino II	3
NATSCI 1A	Natural Science, Lecture	3	NATSCI 2A	Natural Science, Lecture	3
NATSCI 1B	Natural Science, Laboratory	1	NATSCI 2B	Natural Science, Laboratory	1
PE 1	Physical Education	(2)	PE 2	Physical Education	(2)
INTAC 1	Introduction to Ateneo Culture and Traditions	(0)	INTAC 2	Introduction to Ateneo Culture and Traditions	(0)
		<i>Total: 16</i>			<i>Total: 16</i>

### SECOND YEAR

<u>First Semester</u>		<u>Units</u>	<u>Second Semester</u>		<u>Units</u>
FIL 14	Panitikan ng Pilipinas	3	SCI 10	Science and Society	3
TH 121	An Introduction to Doing a Catholic Theology	3	HI 16/HI 18	Asian History/Western History	3
COM 100	Communication Seminar	3	SA 21	Introduction to Sociology and Anthropology	3
COM 101	Communication Theory	3	FLC	Foreign Language and Culture	3
PSY 101	General Psychology	3	COM ELECTIVE 1		3
PE 3	Physical Education	(2)	COM ELECTIVE 2		3
NSTP 1	National Service Training Program	(3)	PE 4	Physical Education	(2)
		<i>Total: 15</i>	NSTP 2	National Service Training Program	(3)
					<i>Total: 18</i>

### THIRD YEAR

<u>First Semester</u>		<u>Units</u>	<u>Second Semester</u>		<u>Units</u>
PH 101	Philosophy of the Human Person I	3	PH 102	Philosophy of the Human Person II	3
EC 102	Basic Economic, Agrarian Reform and Taxation	3	TH 131	Marriage, Family Life and Human Sexuality in a Catholic Perspective	3
COM 102	Communication Research	3	HI 165	Rizal and the Emergence of the Philippine Nation	3
COM ELECTIVE 3		3	COM ELECTIVE 5		3
COM ELECTIVE 4		3	COM ELECTIVE 6		3
		<i>Total: 15</i>			<i>Total: 15</i>

### FOURTH YEAR

<u>Summer</u>	<u>Units</u>
PRACTICUM (120 hours minimum)	(3)
	<i>Total: (3)</i>

<u>First Semester</u>		<u>Units</u>	<u>Second Semester</u>		<u>Units</u>
PH 103/	Philosophy of Religion/		PH 103/	Philosophy of Religion/	
PH 104	Foundations of Moral Value	3	PH 104	Foundations of Moral Value	3
TH 141/	A Theology of the Catholic Social Vision/		TH 141/	A Theology of the Catholic Social Vision/	
TH 151	The Catholic Commitment of Today's Filipino: A Synthesis	3	TH 151	The Catholic Commitment of Today's Filipino: A Synthesis	3
HI 166	Philippine History	3	POS 100	Politics and Governance	3
COM 103	Communication Thesis and Defense	3	COM 107	Media Law and Ethics	3
COM ELECTIVE 7		3	FREE ELECTIVE		3
FREE ELECTIVE		3			<i>Total: 15</i>
		<i>Total: 18</i>			

Total Number of Academic Units: 128  
Curriculum Effective Freshman Batch SY 2002-2003



## COURSE OFFERINGS

### **COM 11 INTRODUCTION TO COMMUNICATION AND COMMUNICATION THEORY**

**3 units**

This course is an introduction to communication, its theories and practices, and the types and modes of communication utilizing various media, in light of the needs of an information society in the Philippine context.

### **COM 12 INFORMATION SOCIETY**

**3 units**

**Pre-requisite: COM 11**

This course deals with the state of the art of communication in a world where information is power. It explores the social effects of communication and its relationship to the international community. Focus is on the new communication technology and its influence on different countries.

### **COM 13 INTRODUCTION TO BROADCAST MEDIA**

**3 units**

**Pre-requisite: COM 12**

This is a comprehensive study of the mass communication process and nature of broadcast media. Topics include organization and operation of a broadcast station/network with emphasis on media management concepts, the latest trends and technological innovations in the broadcast industry, and vital issues affecting it.

### **COM 14 VISUAL THINKING FOR COMMUNICATION MANAGERS**

**3 units**

**Pre-requisite: COM 12**

This is a course on tapping the subconscious for self- and other-

awareness that develops one's creative powers. Students learn to produce samples of creative writing and visual art through the different techniques of idea-provoking, brainstorming inquiry, convergent and divergent thinking, and vertical and lateral transfer.

### **COM 15 AUDIO AND VIDEO PRODUCTION TECHNIQUES**

**3 units**

**Pre-requisite: COM 11**

This course deals with radio and television as media. It includes hands-on production work and laboratory exercises introducing writing for radio and TV and the production of commercials or spot announcements, newscasts, documentaries, telemagazines, panel discussions, educational or instructional programs, variety shows, comedies, and dramas.

### **COM 100 COMMUNICATION SEMINAR**

**3 units**

This course is an introduction to and appreciation of the various areas of communication, surveying the development and present-day situation of the various fields of communication – film, broadcasting, journalism, advertising, public relations, research, and new media – and relating them to the Philippine setting.

### **COM 101 COMMUNICATION THEORY**

**3 units**

This course introduces the frameworks of the dynamics of the communication process. Topics include the nature and relevance of theorizing communication in media culture, early media theory and "the rhetoric of the technological

sublime", and the rise of empirical media theory and the "effects" tradition.

### **COM 102 COMMUNICATION RESEARCH**

**3 units**

**Pre-requisites: COM 101**

This course is an introduction to qualitative and quantitative methods of social science research, presenting current trends and issues in communication research. The course familiarizes beginning researchers with the basic principles and processes of conducting research in the social sciences.

### **COM 102.3 STATISTICAL METHODS IN COMMUNICATION RESEARCH**

**3 units**

This course is an introduction to quantitative research methods and the statistical tools that collect and explain data. Students are exposed to surveys, content analyses, experimental approaches, and other communication studies that require a statistical research tool.

### **COM 103 COMMUNICATION THESIS AND DEFENSE**

**3 units**

**Pre-requisites: COM 100,  
COM 102**

This course is an integration of the students' knowledge of their area of interest in communication, through work on a final paper/project that deals with a problem or problems in communication in the Philippine context.

**COM 105  
INTRODUCTION TO MEDIA  
STUDIES**

**3 units**

This course deals with diverse forms of media texts, technologies, and practices, as well as critical perspectives useful in understanding their often overlooked agendas. A poststructuralist approach to culture and communication is used to examine media as a contested terrain of ideological meanings and pleasures.

**COM 106  
MEDIA AND SOCIETY**

**3 units**

This is an introductory course on the impact of a society on its media, and the influences and effects of mass media on society. Emphasis is on the problems of Philippine mass media in the light of historical developments, current conditions, and national development goals.

**COM 106.1  
MEDIA AND SOCIETY:  
AUDIENCE STUDIES**

**3 units**

This course delves into the studies of listeners and viewers, the so-called media audiences. Three different perspectives are used—advertising, media studies, and politics/journalism—to see how these audiences have been conceived and reconceived over time.

**COM 107  
MEDIA LAW AND ETHICS**

**3 units**

**Pre-requisites:** COM 100, COM 101

This course deals with the foundations and frameworks of media ethics and the legal aspects of the communication profession. The course examines the legal and regulatory framework of Philippine media, the roles of media in democracies, and ethical

issues that affect media practitioners and users.

**COM 108  
TECHNOLOGY AND  
CULTURAL FORM**

**3 units**

This course is a study of different media technologies and their socio-cultural formation and practice. The course may alternatively be focused on particular media, e.g. radio, television, print, and film.

**COM 108.1  
TECHNOLOGY AND  
CULTURAL FORM: RADIO**

**3 units**

This course is a study of radio in its socio-cultural formation and practice, and as media technology that is especially relevant to development communication in the country.

**COM 108.2  
TECHNOLOGY AND  
CULTURAL FORM:  
TELEVISION**

**3 units**

This course is a study of television and its socio-cultural formation and practice, and as media technology that is especially relevant to development communication in the country.

**COM 109  
THE INFORMATION AGE**

**3 units**

This course deals with the state of the art and practice of communication in the contemporary world. Focus is on new communication technologies and their influence on developing and developed countries, and the social effects of communication and its relationship to the international community.

**COM 110  
SPECIAL TOPICS IN CULTURE  
AND COMMUNICATION**

**3 units**

This course is a study of different issues in media and communication studies.

Discussions cover issues in gender and the media, politics, propaganda, education, health, environment, and development.

**COM 110.1  
SPECIAL TOPICS IN CULTURE  
AND COMMUNICATION:  
GENDER AND THE MEDIA**

**3 units**

This course is a study of the images of men and women in radio, television, film, print, and advertising. The course also examines gender issues as presented in the media, including traditional biases, current practices, stereotypes, and achievements.

**COM 110.2  
SPECIAL TOPICS IN CULTURE  
AND COMMUNICATION:  
POLITICAL  
COMMUNICATION**

**3 units**

This course studies how communication and the media influence political behavior. Topics include the contemporary theoretical approaches to political communication; propaganda, persuasion and communication in politics, political campaigns, voting behavior; the setting of political communication; and the methods of study and analysis of political communication.

**COM 110.3  
SPECIAL TOPICS IN CULTURE  
AND COMMUNICATION:  
COMMUNICATION AND  
EDUCATION**

**3 units**

This course is a study of the communication techniques and strategies for education in an information age, with a view to understanding and planning for the new education landscape.

**COM 110.4  
SPECIAL TOPICS  
IN CULTURE AND  
COMMUNICATION:  
PROPAGANDA/PUBLIC  
OPINION**

**3 units**

This course is a study of the techniques and practices of public information and persuasion, the formation and measuring of public opinion, and the governing principles and ethical standards.

**COM 110.5  
SPECIAL TOPICS IN CULTURE  
AND COMMUNICATION:  
COMMUNICATION AND  
ENVIRONMENT**

**3 units**

This course is an introduction to the principles, methods, and current practices in environmental information and issues. Focus is on the comprehension and presentation of scientific data balanced against the risks of misinformation, fear, and alarm entailed in raising public awareness.

**COM 110.6  
SPECIAL TOPICS IN CULTURE  
AND COMMUNICATION:  
DEVELOPMENT  
COMMUNICATION**

**3 units**

This course deals with the phenomenon of development communication in the context of developing countries. Topics include the theories and principles underlying it, approaches used in communicating to target audiences to promote social change, and the difficulties that must be overcome in reaching these audiences.

**COM 110.7  
SPECIAL TOPICS IN CULTURE  
AND COMMUNICATION:  
ISSUES IN PERFORMANCE**

**3 units**

This course is a review and discussion of aspects of the Philippine cultural landscape such as music, performance, local humor, creativity, television, movies, books, etc. to encourage critical and incisive investigation of topics in the areas of culture and performance.

**COM 110.8  
SPECIAL TOPICS IN CULTURE  
AND COMMUNICATION:  
UNDERSTANDING COMICS**

**3 units**

This course deals with comics as more than just entertainment and popular culture, but as a showcase of meanings and contexts. Discussions on popular examples from DC and Marvel go simultaneously with those from the Philippines and other countries from both mainstream and independent lines.

**COM 110.9  
SPECIAL TOPICS IN CULTURE  
AND COMMUNICATION:  
MASS MEDIA IN CHINA**

**3 units**

This course explores the role of mass media in China vis-à-vis the Chinese Government in terms of communication and information dissemination and the politics of information control. It examines the interplay of communication and change in Chinese society from historical, political, cultural, institutional, and theoretical perspectives.

**COM 110.10  
SPECIAL TOPICS IN CULTURE  
AND COMMUNICATION:  
MEDIA AND  
GLOBALIZATION**

**3 units**

This course discusses the media's role in processes of globalization and its social, political, cultural, and moral relevance. It enables students to critically evaluate the media's capacity to make visible distant others and recognize their

duty to be responsible consumers and producers in today's world.

**COM 110.11  
SPECIAL TOPICS IN CULTURE  
AND COMMUNICATION:  
MEDIA AND THE DIASPORA**

**3 units**

This course is an examination of the relationship between media and the diaspora. Using historical and critical frameworks, the course surveys different diasporic groups (e.g. Filipino, Indian, Chinese, Greek, Malaysian, Black, and Latin American) and their consumption, production, and reception of traditional and new media.

**COM 110.12  
SPECIAL TOPICS IN CULTURE  
AND COMMUNICATION:  
POETICS OF FORM IN NEW  
MEDIA AND LYRIC POETRY**

**3 units**

This interdisciplinary course explores intersections between new media and lyric poetry, placing discussions of media saturation today alongside the reading of selected poems. Students will write and present their own poems in workshops, demonstrating the persistence of lyric forms as vital responses to contemporary life.

**COM 111  
ELEMENTS OF  
SCREEN ARTS**

**3 units**

This course is an overview of the principal elements of communication in film and television. Topics include the aesthetic elements of screen art, the terminology governing film production, and the lines of critical inquiry that have been developed in contemporary theory.

**COM 112**  
**FILM HISTORY: THEORY AND PRACTICE**

**3 units**

This course introduces film historical scholarship that examines key figures, films, and movements in the history of international motion pictures. The course serves as a springboard for continuing research for film scholars and as an aesthetic font for the creation of films for filmmakers.

**COM 113**  
**FILM THEORY AND CRITICISM**

**3 units**

This course deals with the nature and function of cinema through the history of film theory and its most influential thinkers. The course traces the development of film theory from formalist and realist appraisals to its contemporary reconfiguration via Gestalt psychology, existentialism, and phenomenology.

**COM 114**  
**APPROACHES TO POPULAR FILM**

**3 units**

This course deals with critical approaches and issues in film and popular culture studies from the 1950s to the present. Topics include mass culture theory, auteurism and genre theory, star studies, historical poetics, feminism and cultural studies, and cultural distinctions between “popular” and “alternative” cinemas.

**COM 115**  
**FILM SEMINAR**

**3 units**

This course is an introduction to comparative filmmakers, film cultures, and genres in Philippine and world cinema.

**COM 115.1**  
**FILM SEMINAR: COMPARATIVE FILMMAKERS**

**3 units**

This course is a study of the development of cinema through the landmark films of major filmmakers.

**COM 115.2**  
**FILM SEMINAR: PHILIPPINE CINEMA**

**3 units**

This course is a survey of Philippine cinema through history, societal changes, world cinematic trends, and the emergence of directors and landmark films, in the light of theories developed by selected Filipino filmmakers and evaluated within the perspective of Filipino socio-political-religious values and traditions.

**COM 115.3**  
**FILM SEMINAR: AMERICAN CINEMA**

**3 units**

This seminar course deals with the cultural history of American cinema, the development and aesthetics of classical narrative film, the terminology of film production, the history and impact of Hollywood, and the lines of inquiry that have been developed for the medium in film studies.

**COM 115.4**  
**FILM SEMINAR: INDIAN FILM**

**3 units**

This is a course on Indian cinema which is one of the most dynamic and vibrant, deeply steeped in tradition and culture. Examples from classic Indian films like those of Satyajit Ray to contemporary Bollywood features are tackled.

**COM 115.5**  
**FILM SEMINAR: EUROPEAN FILM**

**3 units**

This is a course on the unexplored beauty of the world of European and Latin American cinema. Students hopefully enhance their cinematic perspective and appreciation of the European and Latin American worldview and rich cultural heritage.

**COM 115.7**  
**FILM SEMINAR: THE FILMS OF WOODY ALLEN**

**3 units**

This course introduces the films of Woody Allen that also traces the historical development of various concepts of cinematic authorship. The course places the debates on the changing notions of cinematic authorship in the broader context of film theory, cultural history, literature, and philosophy.

**COM 115.8**  
**FILM SEMINAR: ASIAN CINEMA**

**3 units**

This is a course on the exotic beauty and rich cultural heritage of our neighboring Asian countries which are depicted in their award-winning films. Students enhance their appreciation of the cinematic art and unique technique of Asian cinema.

**COM 115.9**  
**FILM SEMINAR: THE HORROR FILM**

**3 units**

This reading and writing course provides an introduction to the issues surrounding the horror film as a genre. Focus is on the attempts to define the genre, its highly provocative treatment of gender politics issues, and the peculiar pleasures audiences derive from such films.

**COM 115.10  
FILM SEMINAR:  
JAPANESE FILM  
3 units**

This course is a study of Japanese films as alternative texts for analyzing and understanding Japanese concepts such as kinship, honor, loyalty, and obligation.

**COM 116  
SPECIAL TOPICS IN  
FILM STUDIES  
3 units**

This course is a study of different issues and forms within film studies, such as the documentary form, women in film, cinema and modernity, and film education.

**COM 116.1  
SPECIAL TOPICS IN FILM  
STUDIES: THE  
DOCUMENTARY FORM  
3 units**

This course is a study of the history, development, and salient characteristics of the documentary film, its impact in the present, and its potential for the future.

**COM 116.2  
SPECIAL TOPICS IN FILM  
STUDIES: WOMEN IN FILM  
3 units**

This course explores women as film actors and directors, as auteurs and writers, as well as of women as subject of, and as treated in films.

**COM 116.3  
SPECIAL TOPICS IN FILM  
STUDIES: CINEMA AND  
MODERNITY  
3 units**

This course is a study of cinema as a favored medium for the transmission of modernity, e.g., values, myths, ideas, ideology, and meaning.

**COM 116.4  
SPECIAL TOPICS IN FILM  
STUDIES: FILM EDUCATION  
3 units**

This course is an exploration of the use of film in formal and non-formal education, as well as of the education of primary, secondary, and tertiary students in the appreciation, understanding, and uses of film.

**COM 116.5  
SPECIAL TOPICS IN FILM  
STUDIES: THE INDEPENDENT  
FILM  
3 units**

This course deals with the appreciation and production of independent films. The appreciation aspect focuses on the history and current state of American Independent Cinema. The Philippine Independent Cinema movement is thoroughly explored, with the intent of having students become part of this movement themselves.

**COM 116.6  
SPECIAL TOPICS IN FILM  
STUDIES: AUTHORSHIP  
IN CINEMA  
3 units**

This is a course anchored on the auteur theory of film which looks at how the director is the author of his works. The class touches on how authorship is both exclusive and affected by many factors.

**COM 117  
INTERDISCIPLINARY  
APPROACHES TO FILM  
STUDIES  
3 units**

This course is a study of the different ways in which film studies have been combined with other disciplines, such as philosophy, theology, and history.

**COM 117.1  
INTERDISCIPLINARY  
APPROACHES TO FILM  
STUDIES: PHILOSOPHY AND  
FILM  
3 units**

This course is an introduction to the philosophic study of film. The course examines cinema as both a symptom and a cause of the postmodern condition, serving as an introduction to philosophical postmodernism and its critique of classical metaphysics.

**COM 117.2  
INTERDISCIPLINARY  
APPROACHES TO FILM  
STUDIES: THEOLOGY AND  
FILM  
3 units**

This course is an introduction to the study of film, particularly its theological implications.

**COM 117.3  
INTERDISCIPLINARY  
APPROACHES TO FILM  
STUDIES: LITERATURE AND  
FILM  
3 units**

This course examines the diverse relationships among history, literature, and film. Topics include the relevant historical materials and issues for evaluating the work of dramatists and moviemakers, the nature of different disciplines, and movies as a hindrance or help to the teaching of literature.

**COM 117.4  
INTERDISCIPLINARY  
APPROACHES TO FILM  
STUDIES: REFLEXIVITY IN  
FILM AND LITERATURE  
3 units**

This course deals with films that have deliberately ruptured their seamless narration, engaging the viewer through intricate filmmaking processes that highlight the films' constructedness. It examines narrative means and their effects



on audiences in order to understand issues like spectatorship, narrative, realism, culture, and ideology.

**COM 117.5**  
**INTERDISCIPLINARY**  
**APPROACHES TO FILM**  
**STUDIES: HISTORY AND**  
**CULTURE IN CHINESE FILM**  
**3 units**

This course explores Chinese history and culture in contemporary films. Film-viewing is complemented by readings and class discussions. Featured films include the works of famous directors and actors such as Ang Lee and Maggie Cheung. All films, if not in English, have English subtitles.

**COM 120**  
**INTRODUCTION TO**  
**PRODUCTION**  
**3 units**

This course is an introduction to the basic concepts and techniques of production and broadcasting in general, and specifically by means of radio, the most pervasive mass medium in the Philippines, with hands-on training on the principles and practices of sound broadcasting.

**COM 123**  
**SOUND RECORDING**  
**3 units**

This course is a study of the local recording industry in relation to the international audio recording scene, with an overview of how a typical recording company works, and comprehensive hands-on training in audio recording processes.

**COM 124**  
**BASIC VIDEO/TV**  
**PRODUCTION**  
**3 units**

This course is an introduction to the TV/video medium of communication, with practical exercises in the techniques of

production such as visual grammar, picture composition, camera work, lighting, sound, recording, and editing. Project work involves video documentaries, television dramas, commercials, and public service announcements.

**COM 124.1**  
**ADVANCED VIDEO/TV**  
**PRODUCTION**  
**3 units**

**Pre-requisite: COM 124**  
This course is a study of studio- and field-based television/video production and operations utilizing multi-camera techniques in both live and pre-recorded set-ups. Project work involves news, drama, variety shows and situation comedies, children's programs, and educational programs for adults.

**COM 124.2**  
**ADVANCED VIDEO/TV**  
**PRODUCTION: THE MEDIA**  
**AS PULPIT**  
**3 units**

This is a course on the basic skills in video production and audio-visual language for evangelization.

**COM 125**  
**EDUCATIONAL AND**  
**INSTRUCTIONAL**  
**TELEVISION**  
**3 units**

This course deals with developments in instructional and educational television. Topics include an overview of media and instruction, a discussion of systematic planning for media instruction, and basic visual principles. Emphasis is on the use of television for education in both broadcast and non-broadcast situations.

**COM 126**  
**SPECIAL TOPICS IN**  
**PRODUCTION**  
**3 units**

This course is a discussion of specialized production topics, such as news production, video editing, and special effects.

**COM 126.1**  
**SPECIAL TOPICS IN**  
**PRODUCTION: VIDEO**  
**EDITING**  
**3 units**

This is a training course in video editing processes with an orientation to the theory and practice of both linear and non-linear video editing.

**COM 126.2**  
**SPECIAL TOPICS IN**  
**PRODUCTION: SPECIAL**  
**EFFECTS**  
**3 units**

This is a training course in the creation of visual illusions both in front of the lens or electronically added by a special effects generator.

**COM 126.7**  
**SPECIAL TOPICS IN**  
**PRODUCTION: DIRECTING**  
**FOR COMMERCIAL**  
**ADVERTISING**  
**3 units**

This course discusses Television Commercial (TVC) production from the vantage point of the Director. The course provides brief looks and insights on the advertising industry, especially creative strategy formulation, conceptualization, and execution. Focus is on both the creative and technical processes involved in audio-visual production.

**COM 126.12**  
**SPECIAL TOPICS IN**  
**PRODUCTION: PRODUCTION**  
**MANAGEMENT**  
**3 units**

This is a course on production which is a living, breathing network of people, creativity, market forces, and economics. Students are exposed to various production genres and how they

must be managed to be able to achieve communication objectives.

**COM 126.13**  
**SPECIAL TOPICS IN**  
**PRODUCTION: MEDIA**  
**MANAGEMENT**

**3 units**

This course deals with management functions in a media enterprise setting and systems approach in management. Topics include case studies on specific media management issues e.g., management-labor relations, manpower planning and development, technology upgrading and acquisition, advertising, marketing, circulation, production, and ethical and legal considerations.

**COM 126.14**  
**SPECIAL TOPICS IN**  
**PRODUCTION: DIGITAL**  
**VIDEO FILMMAKING**

**3 units**

This course melds new technology (digital video) with traditional methods of shooting film. It is a production class that arms the student with the knowledge of how to make a movie without the cost and hassle of getting too technical.

**COM 127**  
**BASIC PHOTOGRAPHY**

**3 units**

This course is an introduction to photography and the application of its basic principles, presenting photography as a professional and aesthetic medium of communication.

**COM 130**  
**WRITING FOR FILM**

**3 units**

This course is a study of the theories and practices of film scriptwriting.

**COM 131**  
**CINEMATOGRAPHY**

**3 units**

This course is a study of the basic elements of the art and craft of film and electronic cinematography, with an introduction to 35mm still photography and exercises in actual lighting set-ups. Topics include film stock, composition, illumination, camera movement, and other tools of filmmaking.

**COM 133**  
**FILM SOUND**

**3 units**

This course is a study of sound as an element of film craft and art, including the concepts, elements, and combinations; and their use in different cinema cultures and individual films.

**COM 134**  
**SPECIAL TOPICS IN FILM**  
**PRODUCTION**

**3 units**

This is an introductory course to the business and art of film production. Topics include basic lessons in project conceptualization, budgeting, packaging, production planning and management, and motion picture marketing, as well as the application of the basic principles of film production at various levels.

**COM 134.1**  
**SPECIAL TOPICS IN FILM**  
**PRODUCTION: ANIMATED**  
**FILM**

**3 units**

This course is a study of the basic principles and techniques of animation as applied to media, such as film and television. Topics range from the simplest type of frame-by-frame animation to the latest techniques of computer animation.

**COM 134.2**  
**SPECIAL TOPICS IN FILM**  
**PRODUCTION:**  
**DOCUMENTARY FILM**

**3 units**

This course is an introduction to the various aesthetic and ideological strategies employed in the making of the documentary film. Topics include the poetics of the documentary film, the issue of authorship in the non-fiction film, cinema *verite*, social commentary, and propaganda.

**COM 134.3**  
**SPECIAL TOPICS IN FILM**  
**PRODUCTION: THE SHORT**  
**FILM**

**3 units**

This is a workshop course on film production techniques, approaches, and theoretical discussions. Focus is on short films and the realities of "independent" and alternative filmmaking.

**COM 134.4**  
**SPECIAL TOPICS IN FILM**  
**PRODUCTION: FEATURE FILM**  
**DIRECTING**

**3 units**

This course exposes students to a wide range of directorial styles in feature films. The director's hand in the various elements of filmmaking like scriptwriting, production design and casting are likewise discussed.

**COM 140**  
**INTRODUCTION TO**  
**JOURNALISM**

**3 units**

This course introduces print media. The course examines the history and practices of the Philippine newspaper, and provides an analytical platform from which to view current events and hands-on experience in writing on the professional and national level. The ethics of journalism are also discussed.



**COM 141****NEWS WRITING****3 units**

This is a workshop in news writing toward sharpening writing skills for possible entry-level work as news writers.

**COM 142****FEATURE WRITING****3 units**

This is a workshop class on a variety of topics and techniques toward professional feature writing.

**COM 142.1****FEATURE WRITING: WORKSHOP****3 units**

This workshop enables students to accomplish a book-length project. The project may be literary journalism or creative nonfiction, funny or serious, past or present, simple or complex; it must, however, be true and compelling. This is an intensive course for serious would-be authors only.

**COM 143****NEWS PRODUCTION AND MANAGEMENT****3 units**

This course is a study of the theory and practice of writing for print media, toward news writing and production.

**COM 143.9****SPECIAL TOPICS IN COMMUNICATION: IDEOLOGIES OF TECHNOLOGY****3 units**

This course is an introduction to key social theorists of technology and mediation and to “simulation theory”. It explores critical cultural studies and provides politicized and critical insights on social phenomena that relate to technology.

**COM 144****INVESTIGATIVE JOURNALISM****3 units**

**Pre-requisite: COM 140 or COM 141**

This course deals with investigative reporting. Topics include the social impact of investigative reporting, legal and ethical considerations, problems and dilemmas faced by investigative journalists in the Philippines and Southeast Asia, and investigative techniques and skills used by practicing Filipino and foreign investigative journalists.

**COM 145****HEALTH AND ENVIRONMENTAL JOURNALISM****3 units**

This course is an introduction to the reporting of health and environmental information and issues, in which the presentation of scientific data is balanced against the risks of raising public awareness.

**COM 146****BUSINESS AND ECONOMIC REPORTING****3 units**

This course is an introduction to the fields, issues, forces, and methods of communication in the business world, particularly the stock and capital markets. The basic principles and elements of journalism and news writing are studied, emphasizing the framing and writing of business-related journalism reports.

**COM 147****BROADCAST JOURNALISM****3 units**

**Pre-requisite: COM 140 or COM 141**

This course deals with the theory and practice of broadcast journalism and its roles and functions in a developing country.

Topics include information gathering, effective writing and professional presentation, relationships between news/information gathering and program production, and critical issues and current trends in the news industry.

**COM 148****PERFORMANCE AND PRESENTATION****3 units**

This is a training course on appropriate writing, speaking, camera and microphone techniques, and presentation styles required for effective communication in the expanding media industry and related fields such as business and advertising.

**COM 149****SPECIAL TOPICS IN PRINT JOURNALISM****3 units**

This course is a study of special topics and issues in print journalism, such as the role of publishers and advertisers, special issues like risk and public health, and matters that arise from the role, pervasiveness, and reach of the print media.

**COM 149.1****SPECIAL TOPICS IN PRINT JOURNALISM: ISSUES IN JOURNALISM****3 units**

**Pre-requisite: COM 140**

This course examines local and global topics in print, broadcast, and electronic journalism. Topics include the history of journalism, local/community journalism, issues in journalism ethics, gender issues, cultural issues, transformations in the journalistic workplace, and transformations in the content and design of journalistic products.

**COM 149.2  
SPECIAL TOPICS IN  
PRINT JOURNALISM:  
CRITICAL WRITING  
3 units**

This is a training course toward analytical thinking for research and writing, and the appreciation of the forms of critical writing, such as research studies, project studies, academic papers, theses, and dissertations.

**COM 149.3  
SPECIAL TOPICS IN PRINT  
JOURNALISM: WRITING  
ABOUT CULTURE  
3 units**

This course deals with topics that are "soft news." It covers trends in the reporting of cultural events in newspapers and newsmagazines. Students sharpen skills in observation, appreciation, and writing, as applied to cultural events such as concerts, art exhibits, book launchings, and cultural issues.

**COM 149.6  
SPECIAL TOPICS IN PRINT  
JOURNALISM: MAGAZINE  
AND INTERNET PUBLISHING  
3 units**

This is a course on the theory and practice of magazine and internet publishing.

**COM 149.8  
SPECIAL TOPICS IN PRINT  
JOURNALISM: ONLINE  
JOURNALISM  
3 units**

This course deals with the evolving differences between print/traditional and online journalism in terms of data gathering, content style, content management, data processing and presentation, and how at the same time the fundamentals of journalism stay the same. Topics include new media tools in journalism.

**COM 149.9  
SPECIAL TOPICS IN PRINT  
JOURNALISM:  
PHOTOJOURNALISM  
3 units**

This course discusses photojournalism. Topics include strategies and genres, camera functions, creative controls for exposure and composition, the history of photojournalism since the camera's invention, and classifications of news photography. Students design a functional digital workflow and create a website/blog for uploading of photography outputs.

**COM 149.10  
SPECIAL TOPICS IN PRINT  
JOURNALISM:  
SPORTSWRITING  
3 units**

This course is an introduction to literary sports journalism. Seminal sports writing tools of some of the best journalists in the field are surveyed and applied by students in their own reporting and writing through class assignments.

**COM 150  
SPECIAL TOPICS IN  
BROADCAST JOURNALISM  
3 units**

This course discusses special topics and issues in broadcast journalism that arise from its growing role in public affairs, national development, and world communication.

**COM 150.2  
SPECIAL TOPICS IN  
BROADCAST JOURNALISM:  
BROADCAST MANAGEMENT  
3 units**

This course deals with the different principles and problems of running a radio or television station (with emphasis on television) in the Philippine setting.

**COM 150.3  
SPECIAL TOPICS IN  
BROADCAST JOURNALISM:  
ISSUES IN BROADCAST  
JOURNALISM  
3 units**

This course is a critical look at relevant and controversial issues in broadcast journalism within the framework of ethics and journalistic values and standards. Primary focus is on television with an occasional eye on radio.

**COM 152  
SOCIAL MARKETING  
3 units**

This course examines the different concepts, principles, and tools of social marketing and how they are applied to address social problems and current issues. It introduces students to the origin and development of social marketing as a key developmental strategy for instituting reforms.

**COM 160  
ADVERTISING PRINCIPLES  
AND PRACTICES  
3 units**

This course is an introduction to the dynamics of advertising, the services of an advertising agency, and the role of the industry in national development. Advertising campaigns are also evaluated.

**COM 161  
PUBLIC RELATIONS  
3 units**

This course is an overview of contemporary public relations as a discipline and as a profession. Topics include its concepts, principles, and practices. Emphasis is on Philippine public relations situations as they contribute to national development.

**COM 161.1**  
**PUBLIC RELATIONS:**  
**CREATING PR TOOLS**  
**3 units**

**Pre-requisite:** COM 161

This course is a study of the tools used to communicate messages, create awareness, or project an image of an organization, and of the strategies, creative thinking, and understanding of Filipino sensitivities that go into their creation.

**COM 161.2**  
**PUBLIC RELATIONS: EVENTS**  
**MANAGEMENT**  
**3 units**

This course frames the event as a production, using techniques from theater, entertainment, and music formats to enhance flow, efficiency, impact, and success. Regardless of reason, events have a life of their own that must be nurtured and a production perspective encourages exactly that.

**COM 162**  
**ADVERTISING**  
**MANAGEMENT**  
**3 units**

**Pre-requisite:** COM 160

This course is a study of the managerial and strategic responsibilities of advertising account managers. Emphasis is on their roles in relation to clients, the advertising agency, the advertising industry, and the consumer.

**COM 163**  
**SPECIAL TOPICS IN**  
**ADVERTISING**  
**3 units**

This course is a study of topics that arise from the vitality of the advertising industry, and its potential power as a means of communication. Topics may include institutional advertising, its role in politics and public affairs, industry practices, and ethics.

**COM 163.1**  
**SPECIAL TOPICS IN**  
**ADVERTISING:**  
**MEDIA MANAGEMENT**  
**3 units**

This course deals with management functions in a media enterprise setting and systems approach in management. Discussions include case studies on media management concerns such as management-labor relations, manpower planning and development, technology upgrading and acquisition, advertising, marketing and circulation, production, and ethical and legal issues.

**COM 163.2**  
**SPECIAL TOPICS IN**  
**ADVERTISING: CREATIVE**  
**WRITING FOR ADVERTISING**  
**(PRINT, TV, COLLATERALS)**  
**3 units**

This course deals with the creative function of an advertising agency, with an emphasis on copywriting and concept development. The class familiarizes students with the inner workings of the creative department and trains them to harness their creativity into brand communication materials.

**COM 163.3**  
**SPECIAL TOPICS IN**  
**ADVERTISING: BROADCAST**  
**ADVERTISING**  
**3 units**

This is an intensive theoretical and technical course on principles of broadcast advertising, specifically, television production in advertising. It is creative and technical in nature, utilizing students' left-brain and right-brain thinking. Topics include theories, methods, and techniques for practical hands-on application in producing television commercials.

**COM 163.4**  
**SPECIAL TOPICS IN**  
**ADVERTISING: ISSUES IN**  
**ADVERTISING**  
**3 units**

This course looks into the ins and outs of the advertising profession. It will analyze the advertising industry in the Philippines in particular, zeroing in on the problems that beset the practice of advertising vis-à-vis what should be ideal.

**COM 163.5**  
**SPECIAL TOPICS IN**  
**ADVERTISING: NEW MEDIA**  
**ADVERTISING**  
**3 units**

This course engages students to see how new media compliment traditional advertising formats. The information age has opened up new platforms to advertise products and services. Virals, social communication networks, and even cellular phones are redefining the advertising landscape.

**COM 163.6**  
**SPECIAL TOPICS IN**  
**ADVERTISING: THE**  
**ADVERTISING INDUSTRY**  
**3 units**

*Open only to 12 third or fourth year Communication majors registered in the Advertising track with a grade of A/B+ in Advertising Principles & Practices and/or Advertising Management.*

This specialized course allows students to listen to the country's very top executives, whose corporations are renowned for marketing effectiveness and cutting-edge advertising in their respective categories, all grounded in advertising and integrated marketing communications.

**COM 163.7  
SPECIAL TOPICS IN  
ADVERTISING: THE  
PHILIPPINE MUSIC  
INDUSTRY**

**3 units**

This course explores the key aspects of the music business, covering the industry in general and certain aspects of the Philippine music scene in particular. Topics include the structure of a record company, artist and songwriter contracts, music marketing, publishing and distribution, and industry trends.

**COM 163.8  
SPECIAL TOPICS IN  
ADVERTISING: INTEGRATED  
MARKETING  
COMMUNICATIONS**

**3 units**

This course sees how advertising, public relations, events and other formats and disciplines can be integrated for cohesive and effective message delivery. The unpredictable economic realities and ever-changing technology have prompted marketers and manufacturers to integrate communication efforts. Understanding the consumer more intently is likewise integral.

**COM 163.9  
SPECIAL TOPICS IN  
ADVERTISING: STRATEGIC  
PLANNING**

**3 units**

This course is an introduction to strategic planning for marketing communications. Students internalize the fundamental principles of strategic planning in order to understand the planning systems of advertising agencies and client marketing organizations. Focus is on basic planning tools and commonly-used research resources.

**COM 170  
CREATIVITY AND PROBLEM  
AWARENESS**

**3 units**

This course is an introduction to the creative process. Exercises and simulations illumine the process of creativity and enhance creative potential. Self- and other-awareness, creative powers and creative problem solving are developed through exercises that tap the subconscious and draw energy from the inner self.

**COM 171  
VISUAL COMMUNICATION**

**3 units**

This course provides students with a solid grounding in visual literacy. Class discussions and projects immerse students in the basic essentials of the visual vocabulary, from the simplest units of visual information to the utilization of visual elements and technique.

**COM 180  
PSYCHOLOGY OF  
COMMUNICATION**

**3 units**

This course is a study of the psychology of communication underlying various communication processes and media. Topics include non-traditional methods of communication, non-verbal communication, body language, spatial communication and geomancy, case studies in communication breakdown, and the construction and use of communication sociograms.

**COM 189  
AUDIENCE AND CONSUMER  
RESEARCH**

**3 units**

This course develops students' competence in Consumer Research Tools and applications to get at the valuation of a decision. The course also teaches students to translate market

dynamics to actionable programs principally in marketing and communications.

**COM 190  
GLOBAL MEDIA CULTURES**

**3 units**

This is a cluster of electives that examine the production, reception, and circulation of media from different global centers through interdisciplinary, critical, and historical modes of inquiry.

**COM 190.1  
GLOBAL MEDIA CULTURES:  
INDIA**

**3 units**

This course is a study of the media cultures of India. Topics include the nature and context of audiences' engagements in different genres such as news, soap, advertisements, music, and film; the political economy of Indian media institutions; and the production practices of media organizations.



Room 408 Ricardo & Dr. Rosita Leong Hall  
(632) 426-6001 loc. 5218  
fax: (632) 426-5659  
devstudies.soss@ateneo.edu

# DEVELOPMENT STUDIES

**Jayeel S. Cornelio**  
*Director*

**Faculty**  
***Assistant Professors***  
Jayeel S. Cornelio  
Leland Joseph R. Dela Cruz

***Lecturers***  
Ophalle R. Alzona-Pornela  
Urduja C. Amor  
Pamela G. Cajilig  
Rosette Gilda C. Librea  
Marcia Czarina Corazon M. Medina-Guce  
Marel Vincent A. Rapisura  
Maria Andrea S. Roda  
Raul P. Rodriguez  
Edwin M. Salonga  
Marie Nathalie S. Ting  
Melissa R. Yeung

The Development Studies Program at the Ateneo de Manila University provides systematic, multidisciplinary formation for individuals who want to make effective contributions to the continuing effort to improve Philippine society.

The Program draws on the traditional strengths of the University in teaching, research and development practice. It brings together the faculty of the constituent disciplines of economics, sociology-anthropology, and political science as well as practitioners with extensive experience in development work. It has also hosted international researchers interested in various aspects of Philippine development.

Graduates of the Bachelor of Arts degree in Development Studies have made significant contributions in development through multilateral and bilateral development institutions, the Executive and Legislative branches of government, the diplomatic corps, non-government organizations and advocacy groups, development research organizations, law groups, business, corporate foundations, and the academe.

The Development Studies Program also offers a Minor in Development Management and a Minor in Health and Development for undergraduate students; and Microfinance Capability Building Services for microfinance practitioners.

## BACHELOR OF ARTS, MAJOR IN DEVELOPMENT STUDIES

The AB Development Studies Program provides an excellent blend of theoretical and applied training. Development Studies students are trained to appreciate diverse perspectives, undertake development research, analyze development policies and manage development interventions. The program provides excellent preparation for careers in multilateral and bilateral development organizations, law and politics, Foreign Service, corporate foundations and non-government organizations, development communications and development research, and the executive and legislative branches of government. Students may also use their field of specialization as a springboard for graduate and professional studies.

### FIRST YEAR

<u>First Semester</u>	<u>Units</u>	<u>Second Semester</u>	<u>Units</u>
EN 11 Communication in English I	3	EN 12 Communication in English II	3
LIT 13 Introduction to Fiction	3	LIT 14 Introduction to Poetry and Drama	3
MA 11 Modern Mathematics I	3	MA 12 Modern Mathematics II	3
FIL 11 Sining ng Pakikipagtalastasan sa Filipino I	3	FIL 12 Sining ng Pakikipagtalastasan sa Filipino II	3
ES 10 Introduction to Environmental Sciences, Lecture	3	NATSCI 2A Natural Science, Lecture	3
NATSCI 1B Natural Science, Laboratory	1	NATSCI 2B Natural Science, Laboratory	1
PE 1 Physical Education	(2)	PE 2 Physical Education	(2)
INTAC 1 Introduction to Ateneo Culture and Traditions	(0)	INTAC 2 Introduction to Ateneo Culture and Traditions	(0)
<b>Total:</b>	<b>16</b>	<b>Total:</b>	<b>16</b>

### SECOND YEAR

<u>First Semester</u>	<u>Units</u>	<u>Second Semester</u>	<u>Units</u>
FIL 14 Panitikan ng Pilipinas	3	DS 101 Perspectives in Development I	3
SA 21 Introduction to Sociology and Anthropology	3	DS 122 Statistics for Social Sciences	3
TH 121 An Introduction to Doing a Catholic Theology	3	SCI 10 Science and Society	3
EC 102 Basic Economics, Agrarian Reform and Taxation	3	PSY 101 General Psychology	3
HI 16/ Asian History/		POS 100 Politics and Governance	3
HI 18 Western History	3	PE 4 Physical Education	(2)
FLC Foreign Language and Culture	3	NSTP 2 National Service Training Program	(3)
PE 3 Physical Education	(2)		
NSTP 1 National Service Training Program	(3)	<b>Total:</b>	<b>15</b>
<b>Total:</b>	<b>18</b>		

### THIRD YEAR

<u>First Semester</u>	<u>Units</u>	<u>Second Semester</u>	<u>Units</u>
PH 101 Philosophy of the Human Person I	3	PH 102 Philosophy of the Human Person II	3
TH 131 Marriage, Family Life and Human Sexuality in a Catholic Perspective	3	HI 165 Rizal and the Emergence of the Philippine Nation	3
DS 102 Perspectives in Development II	3	DS 132 Project Management	3
DS 130 Development Management	3	DS 120 Research Methods	3
DS 112 Survey of Social Development Approaches	3	DS ELECTIVE 2	3
DS ELECTIVE 1	3	DS ELECTIVE 3	3
<b>Total:</b>	<b>18</b>	<b>Total:</b>	<b>18</b>

### FOURTH YEAR

<u>Summer</u>	<u>Units</u>		
DS 140 Practicum in Social Development	3		
<b>Total:</b>	<b>3</b>		

<u>First Semester</u>	<u>Units</u>	<u>Second Semester</u>	<u>Units</u>
PH 103/ Philosophy of Religion/		PH 103/ Philosophy of Religion/	
PH 104 Foundations of Moral Value	3	PH 104 Foundations of Moral Value	3
TH 151 The Catholic Commitment of Today's Filipino: A Synthesis	3	TH 141 A Theology of the Catholic Social Vision	3
DS 150 Field Specialization	3	HI 166 Philippine History	3
DS ELECTIVE 4	3	DS ELECTIVE 6	3
DS ELECTIVE 5	3	FREE ELECTIVE 1	3
		FREE ELECTIVE 2	3
<b>Total:</b>	<b>15</b>	<b>Total:</b>	<b>18</b>

Total Number of Academic Units: 137  
Curriculum Effective: SY 2009-2010



## **MINOR IN DEVELOPMENT MANAGEMENT**

Development Management involves the application of management principles and practices to the context of social development. The minor in Development Management is being offered by the Development Studies Program in response to the increasing need for good managers working with social development institutions – managers who do not only have a mastery of development concepts but also management skills that will make them effective change agents. This is open to all undergraduate students of the Loyola Schools.

Students in the minor program are required to enroll in two core courses and three electives. At least two of the electives must not be part of the students' required major subjects as specified in their curriculum. They are required to obtain a grade of C or higher in these courses.

DS 130	Community Development & Social Change	3 units
DS 132	Project Management	3 units
Three Development Management electives		9 units

### Development Management Electives

Students choose from among the courses listed below and other DS 135.xx Special Topics in Development Management options that may be made available in the future.

DS 112	Survey of Social Development Approaches	3 units
DS 135.1	Special Topics in Development Management: Social Marketing	3 units
DS 135.4	Special Topics in Development Management: Organizational Management	3 units
DS 135.5	Special Topics in Development Management: Cooperatives and Development	3 units
DS 135.6	Special Topics in Development Management: Community Organization	3 units
DS 135.7	Special Topics in Development Management: Seminar on Basic Management Concepts	3 units
DS 135.8	Special Topics in Development Management: Strategic Leadership	3 units
DS 135.9	Special Topics in Development Management: Microfinance	3 units
DS 135.10	Special Topics in Development Management: Alternative Disputes Resolution Processes	3 units
DS 135.11	Special Topics in Development Management: Development Communication	3 units
DS 135.12	Special Topics in Development Management: Training Management	3 units
DS 135.13	Special Topics in Development Management: Resource Mobilization	3 units
DS 135.14	Special Topics in Development Management: Bridging Leadership	3 units
DS 135.16	Special Topics in Development Management: Monitoring & Evaluation of Development Programs	3 units
DS 135.17	Social Innovation	3 units

DS 135.18	Design for Development	3 units
DS 135.50	Entrepreneurship for Sustainable Development	3 units
DS 165.55	Special Topics in Development Management: Corporate Social Responsibility	3 units
DS 165.56	Special Topics in Development Management: Information & Communications Technologies for Development	3 units
DS 165.57	Special Topics in Development Management: Development Finance	3 units
POS 110	Fundamentals of Public Management	3 units
Accounting (any) (John Gokongwei School of Management)		
Finance (any) (John Gokongwei School of Management)		

### **MINOR IN HEALTH AND DEVELOPMENT**

There is increasing recognition that health should not be merely regarded as a clinical matter but requires knowledge of development conditions and development management expertise. The Minor in Health and Development equips students with the necessary knowledge, skills and attitudes to make them effective change agents in the public health sector. Since there are very few multidisciplinary training opportunities in health and development, graduates of this minor program will be in a unique position to build their careers through multilateral, national and local public health bureaucracies, public health consultancies, non-government organizations specializing in public health or health policy organizations.

The Minor is open to all undergraduate students of the Loyola Schools. Students must obtain at least a grade of C for all the subjects included in the minor.

The required courses are as follows:

#### **A. For BS Health Sciences Majors:**

Students are required to enroll in a total of 15 units.

DS 175.80	Special Topics in Contemporary Development Issues: The Political Economy of Health & Development	3 units
DS 175.83	Special Topics in Contemporary Development Issues: Survey of Public Health Interventions	2 units
DS 130.8	Public Health and Social Change	1 unit
DS 132	Project Management	3 units
DS 135.1	Special Topics in Development Management: Social Marketing or	3 units
DS 135.11	Special Topics in Development Management: Development Communication	3 units

One DS Elective from any of the following:

DS 135.1	Special Topics in Development Management: Social Marketing	3 units
DS 135.2	Special Topics in Development Management: Social Entrepreneurship	3 units
DS 135.4	Special Topics in Development Management: Organizational Management	3 units

DS 135.11	Special Topics in Development Management: Development Communication	3 units
DS 135.12	Special Topics in Development Management: Training Management	3 units
DS 135.13	Special Topics in Development Management: Resource Mobilization	3 units
DS 165.56	Special Topics in Development Studies: Information Communications Technologies for Development	3 units
HSC 61	Global Health and Innovations	3 units

**B. For Other Majors (except Development Studies):**

Students are required to enroll in a total of 15 units.

DS 175.80	Special Topics In Contemporary Development Issues: The Political Economy of Health & Development	3 units
DS 175.83	Special Topics In Contemporary Development Issues: Survey of Public Health Interventions	2 units
DS 130.8	Public Health and Social Change	1 unit
HSc 55	Epidemiology	3 units
HSc 61	Global Health & Innovations	3 units
HSC 85	Fundamentals of Nutrition	3 units

**C. For Development Studies Majors:**

Students are required to enroll in a total of 15 units.

HSc 55	Epidemiology	3 units
HSc 61	Global Health & Innovations	3 units
HSC 85	Fundamentals of Nutrition	3 units

**Two Electives (Choose from the following)**

HSC 81	Human Life Cycle	3 units
SA 112	Health, Culture & Society	3 units
CS 187.1	Applications in Medicine & Public Health Informatics	3 units
Other electives to be credited by the Director		3 units

## COURSE OFFERINGS

**DS 101**

**PERSPECTIVES IN  
DEVELOPMENT I  
3 units**

This course is an introduction to the various competing perspectives in the analysis of economic development and underdevelopment, laying the foundation for a critical and theoretically informed

understanding of contemporary issues in Philippine and international development.

**DS 102  
PERSPECTIVES IN  
DEVELOPMENT II  
3 units**

This course introduces various perspectives in the politics of development, underlining the

importance of the "political element" in the development process. Theoretical concepts and issues provide the parameters for a discussion of the nature of politics in the Philippines from a historical and comparative perspective.

**DS 103**  
**PERSPECTIVES IN**  
**DEVELOPMENT III**  
**3 units**

This course is an overview of various socio-cultural perspectives on development and modernization, thus laying the ground for a critical and theoretically informed understanding of contemporary issues in Philippine and international development.

**DS 112**  
**SURVEY OF SOCIAL**  
**DEVELOPMENT**  
**APPROACHES**  
**3 units**

This course is an overview of social development approaches used by various development institutions. Inputs from development professionals demonstrate how these frameworks are applied in practice. It also provides an overview of the evolving concept of poverty, from income poverty to poverty as human insecurity.

**DS 120**  
**RESEARCH METHODS**  
**3 units**

This course is an overview of methods of social analysis and their relevance to the interpretation of social data and the study of social situations. Emphasis is on the practice of social research, rather than the theory of methodology, and entails work outside the classroom.

**DS 120.1**  
**QUANTITATIVE RESEARCH**  
**METHODS**  
**3 units**

This course introduces the various quantitative methods in the social sciences. The course begins with a discussion of the methodological implications of the use of quantitative methods, then proceeds to a discussion of the

various quantitative methods including an assessment of their strengths and limitations.

**DS 120.2**  
**QUALITATIVE RESEARCH**  
**METHODS**  
**3 units**

This course introduces the various qualitative methods in the social sciences. The course begins with a discussion of the methodological implications of the use of qualitative methods, then proceeds to a discussion of the various qualitative methods including an assessment of their strengths and limitations.

**DS 122**  
**STATISTICS FOR SOCIAL**  
**SCIENCES**  
**3 units**

This course is an introduction to statistics using applications from the social sciences. Instruction is supplemented by the use of computer statistical packages and actual statistical research projects.

**DS 130**  
**COMMUNITY DEVELOPMENT**  
**AND SOCIAL CHANGE**  
**3 units**

This course deals with the art of introducing and sustaining development interventions on various levels. Inputs from development practitioners demonstrate the basic principles discussed in the lectures. The course frames development interventions as social change projects and draws from change management literature.

**DS 130.8**  
**PUBLIC HEALTH AND SOCIAL**  
**CHANGE**  
**1 unit**

Public health interventions involve social change on various levels. This case study course introduces the art of managing such interventions to properly respond to the problems or

concerns in an effective and sustainable manner.

**DS 132**  
**PROJECT MANAGEMENT**  
**3 units**  
**Prerequisite: DS 130 or any**  
**DS 135.xx**

This course is a practical overview of the cycle of the development process involved in the management of development programs and projects, including project conceptualization, design, implementation, monitoring, and evaluation.

**DS 135.1**  
**SPECIAL TOPICS IN**  
**DEVELOPMENT**  
**MANAGEMENT: SOCIAL**  
**MARKETING**  
**3 units**

This course is an overview of basic marketing principles and how these can and must be used to support various development interventions. Case studies are analyzed to illustrate the concrete application of social marketing theories.

**DS 135.4**  
**SPECIAL TOPICS IN**  
**DEVELOPMENT**  
**MANAGEMENT:**  
**ORGANIZATIONAL**  
**MANAGEMENT**  
**3 units**

This course is an overview of the processes and dynamics of interpersonal relations in organizations. Topics include the individual, group dynamics, and problem-solving skills. Focus is on the unique dynamics of organizational management and development interventions affecting the potentials of the group and its members.

**DS 135.5  
SPECIAL TOPICS IN  
DEVELOPMENT  
MANAGEMENT:  
COOPERATIVES AND  
DEVELOPMENT**

**3 units**

This course is an in-depth analysis of the cooperative movement. Various forms of cooperatives and cooperative networks are examined, primarily through the use of case studies. Focus is on examining the relative strengths and limitations of cooperativism as a social development initiative.

**DS 135.6  
SPECIAL TOPICS IN  
DEVELOPMENT  
MANAGEMENT:  
COMMUNITY  
ORGANIZATION**

**3 units**

This course is an in-depth analysis of community organizing as an approach to social development, and the philosophy underlying this approach. Focus is on examining the relative strengths and limitations of community organizing as a social development initiative by assessing various community organizing efforts.

**DS 135.7  
SPECIAL TOPICS IN  
DEVELOPMENT  
MANAGEMENT: SEMINAR  
ON BASIC MANAGEMENT  
CONCEPTS**

**3 units**

This course is an introduction to basic management tools including basic accounting, financial analysis, and feasibility study preparation. The course provides students with a deeper understanding and appreciation of development management and project management.

**DS 135.8  
SPECIAL TOPICS IN  
DEVELOPMENT  
MANAGEMENT: STRATEGIC  
LEADERSHIP**

**3 units**

This course is an overview of the different types of leadership and the practices of effective leaders, particularly those in the field of development. Special attention is given to cases of leaders who are able to effect change while faced with significant constraints.

**DS 135.9  
SPECIAL TOPICS IN  
DEVELOPMENT  
MANAGEMENT:  
MICROFINANCE**

**3 units**

This course discusses the practice of providing financial services to marginalized clients. Topics include the philosophy and methodology of well-established models (Grameen, Village Banking) and emerging models (financial services associations, cooperative savings). Existing Philippine initiatives and standards are analyzed and juxtaposed with international best practice.

**DS 135.10  
SPECIAL TOPICS IN  
DEVELOPMENT  
MANAGEMENT:  
ALTERNATIVE DISPUTE  
RESOLUTION PROCESSES**

**3 units**

This course introduces the theory and practice of alternative dispute resolution methods. The course introduces a set of conceptual frameworks and proven techniques that help students analyze and reflect on their own experiences of conflict resolution and prepare them for dealing effectively with future situations.

**DS 135.11  
SPECIAL TOPICS IN  
DEVELOPMENT  
MANAGEMENT:  
DEVELOPMENT  
COMMUNICATION**

**3 units**

This course discusses the role of communication in social change, particularly in the context of its potential to facilitate changes in knowledge and behaviors among stakeholders in development programs. Students examine the theory behind the tools employed in communication programs and identify patterns in application.

**DS 135.12  
SPECIAL TOPICS IN  
DEVELOPMENT  
MANAGEMENT: TRAINING  
MANAGEMENT**

**3 units**

This course develops knowledge, skills, and capabilities to manage training programs. Focus is on the training management cycle. Deeper appreciation of the course material is facilitated by hands-on learning exercises and an actual training conducted for target groups such as members of people's organizations.

**DS 135.13  
SPECIAL TOPICS IN  
DEVELOPMENT  
MANAGEMENT: RESOURCE  
MOBILIZATION**

**3 units**

This course is an overview of the theory and practice of resource mobilization. Resources are defined broadly to include financial resources, human resources, and any other resource useful for achieving an initiative's goals. Various resource mobilization techniques are discussed and assessed.

**DS 135.14  
SPECIAL TOPICS IN  
DEVELOPMENT  
MANAGEMENT: BRIDGING  
LEADERSHIP**

**3 units**

This course introduces Bridging Leadership—a leadership style appropriate to the complex development challenges of our time. Lectures, case-discussions, and structured learning experiences immerse the students in the three phases of the Bridging Leadership Framework. In the process, students discover their personal leadership style.

**DS 135.15  
SPECIAL TOPICS IN  
DEVELOPMENT  
MANAGEMENT:  
IMMERSION/WORK CAMP**

**3 units**

This course is an extended immersion with a marginalized community. Students experience the dynamics of such communities and reflect on their experience using various lessons learned in class. This course also introduces the practice of social investigation, a preparatory step to community development/organization efforts.

**DS 135.16  
SPECIAL TOPICS IN  
DEVELOPMENT  
MANAGEMENT:  
MONITORING AND  
EVALUATION OF  
DEVELOPMENT PROGRAMS**

**3 units**

This course introduces techniques for determining the extent to which development programs are delivering results in a relevant, effective, efficient and sustainable manner. It explores theoretical and strategic issues conducting evaluation studies and implementing monitoring and evaluation activities.

**DS 135.17  
SOCIAL INNOVATION**

**3 units**

This course trains students to understand the process of designing, introducing and sustaining innovations that are meant to address various social problems. Various social innovation cases will be presented to demonstrate the principles discussed in class.

**DS 135.18  
DESIGN FOR DEVELOPMENT**

**3 units**

This course creates solutions for Developing Economies through Creativity. Students are encouraged to generate, maximize, and live-out Design Thinking strategies addressing the ‘quadruple bottom line’: People, Planet, Peace, and Profit. Design is not just embellishment but a strategy towards national progress.

**DS 135.21  
SPECIAL TOPICS IN  
DEVELOPMENT  
MANAGEMENT: SOCIAL  
INNOVATIONS I**

**3 units**

This is a three-phase seminar on the knowledge and skills needed to develop a social enterprise, defined as a social development initiative. First, inputs are given on social entrepreneurship and project management. Students then come up with a social enterprise proposal.

**DS 135.22  
SPECIAL TOPICS IN  
DEVELOPMENT  
MANAGEMENT: SOCIAL  
INNOVATIONS II**

**3 units**

This is a three-phase seminar on the necessary knowledge and skills to enable students to develop their own social enterprise, broadly defined as a social development initiative. The

third phase involves the actual implementation of the social development initiative.

**DS 135.50  
ENTREPRENEURSHIP FOR  
SUSTAINABLE  
DEVELOPMENT**

**3 units**

This course explores how social problems can be addressed through financially sustainable earned-income activities. This course presents different social enterprise models and discusses various aspects of the social dimension of social enterprises, including the social dimensions of business operations.

**DS 140  
PRACTICUM IN SOCIAL  
DEVELOPMENT**

**3 units**

This course allows students to participate in development interventions and apply their learning to development situations. At the end of the practicum, students assess the experience and articulate the underlying development definition and strategy that motivates the agency to which they were assigned.

**DS 140.2  
PRACTICUM IN SOCIAL  
DEVELOPMENT II**

**3 units**

This course allows students to participate in development interventions and apply their learning to development situations. At the end of the practicum, students assess the experience and articulate the underlying development definition and strategy that motivates the agency to which they were assigned.



**DS 140.3**  
**PRACTICUM IN SOCIAL**  
**DEVELOPMENT III**  
**3 units**

This course allows students to participate in development interventions and apply their learning to development situations. At the end of the practicum, students assess the experience and articulate the underlying development definition and strategy that motivates the agency to which they were assigned.

**DS 150**  
**FIELD SPECIALIZATION**  
**3 units**

**Prerequisites:** All required DS courses (DS 101, 102, 112, 120, 122, 130, 132, 140).

This is a synthesis of the courses taken for the AB Development Studies degree program. Students are expected to complete a thesis or a project. This course provides students with an opportunity to apply the lessons they have learned from the AB Development Studies Program.

**DS 150.1**  
**FIELD SPECIALIZATION I**  
**3 units**

**Prerequisites:** All required DS courses (DS 101, 102, 112, 120, 122, 130, 132, 140).

This is a synthesis of the courses taken for the AB Development Studies degree program. Students write a thesis proposal or project proposal. This course provides students with an opportunity to apply the lessons they have learned from the AB Development Studies Program.

**DS 150.2**  
**FIELD SPECIALIZATION II**  
**3 units**

**Prerequisites:** All required DS courses (DS 101, 102, 112, 120, 122, 130, 132, 140).

This is a synthesis of the courses taken for the AB Development

Studies degree program. Students are expected to complete a thesis or a project. This course provides students with an opportunity to apply the lessons they have learned from the AB Development Studies Program.

**DS 165.3**  
**SPECIAL TOPICS IN**  
**DEVELOPMENT STUDIES:**  
**MARXIAN POLITICAL**  
**ECONOMY**  
**3 units**

This course is an extensive discussion of Marxist political economy. The course traces the history of Marxist thought from Karl Marx himself to contemporary Marxist analysis. Emphasis is on the Marxist analysis of progress, development, and underdevelopment.

**DS 165.7**  
**SPECIAL TOPICS IN**  
**DEVELOPMENT STUDIES:**  
**CULTURE AND**  
**DEVELOPMENT**  
**3 units**

This course examines the cultural element as a legitimate end of development and a significant determinant of various states of development. Notions of “economic cultures” and “political cultures” are explored.

**DS 165.8**  
**SPECIAL TOPICS IN**  
**DEVELOPMENT STUDIES:**  
**COMPARATIVE**  
**DEVELOPMENT IN**  
**HISTORICAL PERSPECTIVE**  
**3 units**

This course is a comparative study of the different strategies undertaken by countries to promote development. These strategies and their outcomes are assessed using various theories that may help explain the differing levels of development.

**DS 165.12**  
**SPECIAL TOPICS IN**  
**DEVELOPMENT STUDIES:**  
**LOCAL GOVERNMENT**  
**3 units**

This course examines the theory and practice of Philippine local government. Topics include the features and effects of the Local Government Code of 1991; fundamental concepts of decentralization; the nature of local government and the role NGOs play; and the framework for area development.

**DS 165.18**  
**SPECIAL TOPICS IN**  
**DEVELOPMENT STUDIES:**  
**ASPECT OF PHILIPPINE**  
**POLITICAL ECONOMY**  
**3 units**

This course examines various aspects of the Philippine state, polity, and economy, using theories from the interdisciplinary disciplines of political sociology and economic sociology. The course provides students with a deeper appreciation of the context of the current state of Philippine development.

**DS 165.35**  
**SPECIAL TOPICS IN**  
**DEVELOPMENT STUDIES:**  
**RESEARCH IN**  
**DEVELOPMENT ISSUES**  
**3 units**

This research course requires students to undertake a critical review of articles and examine the methodologies used in testing hypotheses within a particular field of study. The required output of the course is equivalent to a thesis proposal.

**DS 165.39**  
**SPECIAL TOPICS IN**  
**DEVELOPMENT STUDIES:**  
**DEVELOPMENT POLICY**  
**3 units**

This course is an overview of the development policy process including policy formulation,



implementation, and evaluation. Attention is given to the informational, economic, bureaucratic, and political constraints that policy-makers face; and to the process of policy reform.

**DS 165.41**  
**SPECIAL TOPICS IN**  
**DEVELOPMENT STUDIES:**  
**GLOBALIZATION AND**  
**GOVERNANCE**  
**3 units**

This course is an analysis of globalization as a constructed and contested terrain of social meanings and relations, and of governance as processes of partial steering and ordering in a multi-centered world with diverse but often overlapping spheres or sites of authority.

**DS 165.45**  
**SPECIAL TOPICS IN**  
**DEVELOPMENT STUDIES:**  
**LEGAL ISSUES IN**  
**DEVELOPMENT**  
**3 units**

This is a seminar/workshop on current issues concerning development in the Philippine context, as manifested in legal controversies that accompany the process of development. Topics include housing and urban development; agrarian reform and rural development; gender and development; labor rights; and social autonomy.

**DS 165.46**  
**SPECIAL TOPICS IN**  
**DEVELOPMENT STUDIES:**  
**INTERNATIONAL**  
**DEVELOPMENT**  
**INSTITUTIONS**  
**3 units**

This course is an introduction to various international development institutions, providing an overview of their social location in the broader field of development. Particular attention is given to the

relationship between the international development institutions and the Philippines.

**DS 165.55**  
**SPECIAL TOPICS IN**  
**DEVELOPMENT STUDIES:**  
**CORPORATE SOCIAL**  
**RESPONSIBILITY**  
**3 units**

This course discusses the history of Corporate Social Responsibility, its rationale, current trends both internationally and locally, actual practices, and implementation issues. Emphasis is on its location within the discourse of business ethics and corporate governance.

**DS 165.56**  
**SPECIAL TOPICS IN**  
**DEVELOPMENT STUDIES:**  
**INFORMATION AND**  
**COMMUNICATION**  
**TECHNOLOGIES FOR**  
**DEVELOPMENT**  
**3 units**

This course discusses the role of information and communication technologies (ICTs) in development. Topics include how ICTs are changing organizations and how people work; important policy issues such as access, privacy, content; and the role of government, private organizations, and ordinary citizens.

**DS 165.57**  
**SPECIAL TOPICS IN**  
**DEVELOPMENT STUDIES:**  
**DEVELOPMENT FINANCE**  
**3 units**

This course introduces the structure of the financial system and its role in the economy and in development, particularly in the context of underdeveloped countries. Emphasis is on how financial institutions and instruments affect financial markets and the aggregate level of economic activity.

**DS 175.80**  
**SPECIAL TOPICS IN**  
**CONTEMPORARY**  
**DEVELOPMENT ISSUES: THE**  
**POLITICAL ECONOMY OF**  
**HEALTH AND DEVELOPMENT**  
**3 units**

This course situates public health issues in the broader discourses of development and governance. Topics include the interaction between public health issues and other social concerns, the various agents of development and public health management, and the role they play in public health management.

**DS 175.83**  
**SPECIAL TOPICS IN**  
**CONTEMPORARY**  
**DEVELOPMENT ISSUES:**  
**SURVEY OF PUBLIC HEALTH**  
**INTERVENTIONS**  
**2 units**

This course is an overview of various public health interventions by situating these interventions within various classificatory frames. Lectures on these classificatory frames are supplemented by inputs from health development practitioners.

Room 409 Ricardo & Dr. Rosita Leong Hall  
(632) 426-6001 loc. 5220/5221/5222  
fax: (632) 426-5661  
economics.soss@ateneo.edu  
www.ateneo.edu/soss/lisoss/economics

## ECONOMICS

**Luis F. Dumlao**  
*Chair*

**Faculty**  
***Professor Emeritus***  
Ellen H. Palanca

***Professors***  
Fernando T. Aldaba  
Alvin P. Ang  
Germelino M. Bautista  
Cielito F. Habito  
Leonardo A. Lanzona, Jr.  
Joseph Anthony Y. Lim  
Rosalina P. Tan  
Victor S. Venida

***Associate Professors***  
Edsel L. Beja, Jr.  
Aleta C. Domdom  
Luis F. Dumlao  
Benjamin T. Tolosa, Jr.

***Assistant Professors***  
Cristina M. Bautista  
Connie Bayudan-Dacuycuy  
Noel P. De Guzman  
Marissa Maricosa A. Paderon  
Marilou A. Perez  
Roberto C. Yap, S.J.

***Lecturers***  
Ma. Cristina M. Alikpala • Walfredo P. Belen • Gervy  
James P. Biagtan • Neil Adrian S. Cabiles • Robert  
Lance C. Chua • Ryan Joseph R. Dizon • Abigail P.  
Dumalus • Clarice Colleen Q. Manuel • Joselito T.  
Sescon • Patrick Gerard C. Simon-King • Philip  
Arnold P. Tuaño • Marian Theresia D. Valera •  
Primitivo E. Viray, Jr., S.J. • David Joseph Emmanuel  
B. Yap Jr. • Victorina H. Zosa

Describing what he called the "master economist," Keynes once wrote: "He must reach a high standard in several different directions and must combine talents not often found together. He must be [sic] mathematician, historian, statesman, philosopher." With its traditional strength in the liberal arts, and its strong connections with the world of business and public sectors, the Department of Economics presents an excellent environment for developing such a combination of talents.

Its faculty members teach a broad spectrum of courses, reflecting a wide range of areas of concentration and schools of thought in economics, from mainstream neoclassical analysis to structural, Marxian, political economy, and institutional approaches.

Most of the alumni of the undergraduate and graduate degree programs are employed in private corporations, financial institutions, the academe, NGOs, and the government at all levels.

The Department of Economics is able to provide research supervision in the following areas of specialization: development economics, international economics, quantitative economics, environment and natural resource economics, human resource and labor economics, economic history, history of economics, monetary and financial economics, public economics, and regional and urban economics.

## BACHELOR OF ARTS, MAJOR IN ECONOMICS

Economics is a scientific field of study fit for those who will occupy positions of authority and responsibility in business and public life. It enables the student to have a firm understanding of the workings of the economy: the roles of business and finance, the process of economic development, and the global economic integration of countries, to name a few. The training is rigorous and practical enough to be applied in everyday life.

Graduates of the program enjoy great flexibility in career options. Many have gone into the private business sector as experts in finance (such as securities trading and investment banking) and as project specialists working for prestigious local and multinational companies (such as land development, corporate planning.) The beauty of the program is that it also prepares students for other career options in government service, socially-oriented jobs (such as working for local and international NGOs), and in international development organizations. The program has also benefited many students who have gone on to earn an MBA or enter the law profession. Other graduates have gone on to pursue masteral and doctoral studies in economics in the Philippines and abroad.

### FIRST YEAR

<u>First Semester</u>		<u>Units</u>	<u>Second Semester</u>		<u>Units</u>
EN 11	Communication in English I	3	EN 12	Communication in English II	3
LIT 13	Introduction to Fiction	3	LIT 14	Introduction to Poetry and Drama	3
MA 11	Modern Mathematics I	3	MA 20	Calculus for Economists	6
FIL 11	Sining ng Pakikipagtalastasansa Filipino I	3	FIL 12	Sining ng Pakikipagtalastasansa Filipino II	3
NATSCI 1A	Natural Science, Lecture	3	NATSCI 2A	Natural Science, Lecture	3
NATSCI 1B	Natural Science, Laboratory	1	NATSCI 2B	Natural Science, Laboratory	1
PE 1	Physical Education	(2)	PE 2	Physical Education	(2)
INTAC 1	Introduction to Ateneo Culture and Traditions	(0)	INTAC 2	Introduction to Ateneo Culture and Traditions	(0)
		<i>Total: 16</i>			<i>Total: 19</i>

### SECOND YEAR

<u>First Semester</u>		<u>Units</u>	<u>Second Semester</u>		<u>Units</u>
FIL 14	Panitikan ng Pilipinas	3	EC 115	Introduction to Mathematical Economics	3
SA 21	Introduction to Sociology and Anthropology	3	SCI 10	Science and Society	3
TH 121	An Introduction to Doing a Catholic Theology	3	EC 111	Intermediate Microeconomic Theory	3
EC 102	Basic Economics, Agrarian Reform and Taxation	3	ACC 15	Fundamentals of Accounting	3
PSY 101	General Psychology	3	FLC	JSP/ CHN/ SP/ FR/ BH/ ITAL/ GR (choose one)	3
PE 3	Physical Education	(2)	HI 16/ HI 18	Asian History/Western History	3
NSTP 1	National Service Training Program	(3)	PE 4	Physical Education	(2)
		<i>Total: 15</i>	NSTP 2	National Service Training Program	(3)
					<i>Total: 18</i>

### THIRD YEAR

<u>First Semester</u>		<u>Units</u>	<u>Second Semester</u>		<u>Units</u>
PH 101	Philosophy of the Human Person I	3	PH 102	Philosophy of the Human Person II	3
EC 112	Intermediate Macroeconomic Theory	3	EC 117	Introduction to Econometrics	3
HI 165	Rizal and the Emergence of the Philippine Nation	3	EC 121	Development Economics	3
EC 116	Statistics for Economists	3	EC ELECTIVE		3
TH 131	Marriage, Family Life and Human Sexuality in a Catholic Perspective	3	FREE ELECTIVE		3
		<i>Total: 15</i>			<i>Total: 15</i>

### FOURTH YEAR

<u>First Semester</u>		<u>Units</u>	<u>Second Semester</u>		<u>Units</u>
PH 103/	Philosophy of Religion/		PH 103/	Philosophy of Religion/	
PH 104	Foundations of Moral Value	3	PH 104	Foundations of Moral Value	3
TH 151	The Catholic Commitment of Today's Filipino: A Synthesis	3	TH 141	A Theology of the Catholic Social Vision	3
HI 166	Philippine History	3	POS 100	Politics and Governance	3
EC 171	Economic Research I	3	EC 177	Theory and Practice of Social Development	3
EC ELECTIVE * At least one elective must be		3	FREE ELECTIVE		3
EC ELECTIVE International in nature		3			<i>Total: 15</i>
		<i>Total: 18</i>			

Total Number of Academic Units: 131  
Curriculum Effective Freshman Batch SY 2002-2003

## BACHELOR OF ARTS, MAJOR IN ECONOMICS (HONORS PROGRAM)

The Honors Program in Economics is designed for the select few who can hurdle the rigorous training in economics and quantitative methods that the program provides. It is intended for the student who wants to become a specialist and plans to have a career as a professional economist. In addition to the courses taken in the Standard program, the Honors program requires additional courses in mathematics and statistics and requires more rigorous research tooling students for graduate studies in economics.

Graduates of the Honors program have gone on to become specialists in business, finance, and the academe. Others enjoy successful careers in government as development specialists and policy makers.

### FIRST YEAR

<u>First Semester</u>	<u>Units</u>	<u>Second Semester</u>	<u>Units</u>
EN 11 Communication in English I	3	EN 12 Communication in English II	3
LIT 13 Introduction to Fiction	3	LIT 14 Introduction to Poetry and Drama	3
MA 18A Principles of Modern Mathematics I	3	MA 21 Mathematical Analysis I	6
MA 18B Principles of Modern Mathematics II	3	FIL 12 Sining ng Pakikipagtalastasansa Filipino II	3
FIL 11 Sining ng Pakikipagtalastasansa Filipino I	3	NATSCI 2A Natural Science, Lecture	3
NATSCI 1A Natural Science, Lecture	3	NATSCI 2B Natural Science, Laboratory	1
NATSCI 1B Natural Science, Laboratory	1	PE 2 Physical Education	(2)
PE 1 Physical Education	(2)	INTAC 2 Introduction to Ateneo Culture and Traditions	(0)
INTAC 1 Introduction to Ateneo Culture and Traditions	(0)		
	<i>Total: 19</i>		<i>Total: 19</i>

### SECOND YEAR

<u>First Semester</u>	<u>Units</u>	<u>Second Semester</u>	<u>Units</u>
FIL 14 Panitikan ng Pilipinas	3	EC 115 Introduction to Mathematical Economics	3
SA 21 Introduction to Sociology and Anthropology	3	SCI 10 Science and Society	3
TH 121 An Introduction to Doing a Catholic Theology	3	EC 111 Intermediate Microeconomic Theory	3
EC 102 Basic Economics, Agrarian Reform and Taxation	3	ACC 15 Fundamentals of Accounting	3
HI 16/HI 18 Asian History/Western History	3	FLC Foreign Language and Culture	3
MA 22 Mathematical Analysis II	3	MA 122 Linear Algebra	3
PE 3 Physical Education	(2)	PE 4 Physical Education	(2)
NSTP 1 National Service Training Program	(3)	NSTP 2 National Service Training Program	(3)
	<i>Total: 18</i>		<i>Total: 18</i>

### THIRD YEAR

<u>First Semester</u>	<u>Units</u>	<u>Second Semester</u>	<u>Units</u>
PH 101 Philosophy of the Human Person I	3	PH 102 Philosophy of the Human Person II	3
EC 112 Intermediate Macroeconomic Theory	3	TH 131 Marriage, Family Life and Human Sexuality in a Catholic Perspective	3
HI 165 Rizal and the Emergence of the Philippine Nation	3	EC 117 Introduction to Econometrics	3
PSY 101 General Psychology	3	EC 121 Development Economics	3
EC 116 Statistics for Economists	3	EC ELECTIVE * At least one elective must be	3
FREE ELECTIVE	3	EC ELECTIVE International in nature	3
	<i>Total: 18</i>		<i>Total: 18</i>

### FOURTH YEAR

<u>First Semester</u>	<u>Units</u>	<u>Second Semester</u>	<u>Units</u>
PH 103/ Philosophy of Religion/		PH 103/ Philosophy of Religion/	
PH 104 Foundations of Moral Value	3	PH 104 Foundations of Moral Value	3
TH 151 The Catholic Commitment of Today's Filipino: A Synthesis	3	TH 141 A Theology of the Catholic Social Vision	3
HI 166 Philippine History	3	POS 100 Politics and Governance	3
EC 171 Economic Research I	3	EC 177 Theory and Practice of Social Development	3
EC ELECTIVE	3	FREE ELECTIVE	3
	<i>Total: 15</i>		<i>Total: 15</i>

Total Number of Academic Units: 140  
Curriculum Effective Freshman Batch SY 2002-2003

## BACHELOR OF ARTS, MAJOR IN MANAGEMENT ECONOMICS

The Management Economics program was established to offer students the option of having a balanced mix of business education and economics. While the management side trains the student in the principles of firm management, the economics component grounds the student in economic theory. This dual orientation is the main strength of the program since, as recent events have shown, business survival does not only depend on sound internal management, but also on how well one can cope with external economic forces.

Graduates of the program are expected to have very flexible career options. Although many students have opted for careers in business and finance, others have used their business background in entrepreneurial endeavors. The program is a very good preparation for taking an MBA and establishing a career as a professional manager. It is also suitable as a pre-law course.

### FIRST YEAR

<u>First Semester</u>		<u>Units</u>	<u>Second Semester</u>		<u>Units</u>
EN 11	Communication in English I	3	EN 12	Communication in English II	3
LIT 13	Introduction to Fiction	3	LIT 14	Introduction to Poetry and Drama	3
MA 11	Modern Mathematics I	3	MA 20	Calculus for Economists	6
FIL 11	Sining ng Pakikipagtalastasansa Filipino I	3	FIL 12	Sining ng Pakikipagtalastasansa Filipino II	3
NATSCI 1A	Natural Science, Lecture	3	NATSCI 2A	Natural Science, Lecture	3
NATSCI 1B	Natural Science, Laboratory	1	NATSCI 2B	Natural Science, Laboratory	1
PE 1	Physical Education	(2)	PE 2	Physical Education	(2)
INTAC 1	Introduction to Ateneo Culture and Traditions	(0)	INTAC 2	Introduction to Ateneo Culture and Traditions	(0)
		<i>Total:</i> 16			<i>Total:</i> 19

### SECOND YEAR

#### Summer

ITM 11	Basic Information Technology Applications in Business (remedial class)	(0)
		<i>Total:</i> 0

<u>First Semester</u>		<u>Units</u>	<u>Second Semester</u>		<u>Units</u>
EC 102	Basic Economics, Agrarian Reform and Taxation	3	FIL 14	Panitikan ng Pilipinas	3
HI 16/HI 18	Asian History/Western History	3	ACC 30	Introduction to Managerial Accounting	3
TH 121	An Introduction to Doing a Catholic Theology	3	PSY 101	General Psychology	3
SA 21	Introduction to Sociology and Anthropology	3	EC 111	Intermediate Microeconomic Theory	3
FLC	Foreign Language and Culture	3	EC 115	Introduction to Mathematical Economics	3
ACC 10	Principles of Accounting	3	SCI 10	Science and Society	3
PE 3	Physical Education	(2)	PE 4	Physical Education	(2)
NSTP 1	National Service Training Program	(3)	NSTP 2	National Service Training Program	(3)
		<i>Total:</i> 18			<i>Total:</i> 18

### THIRD YEAR

<u>First Semester</u>		<u>Units</u>	<u>Second Semester</u>		<u>Units</u>
PH 101	Philosophy of the Human Person I	3	PH 102	Philosophy of the Human Person II	3
TH 131	Marriage, Family Life and Human Sexuality in a Catholic Perspective	3	EC 113	Economics of Money and Banking	3
EC 112	Intermediate Macroeconomic Theory	3	HI 165	Rizal and the Emergence of the Philippine Nation	3
MKT 101	Principles of Marketing	3	EC 121	Development Economics	3
POM 104	Quantitative Methods and Operations/Production Applications	5	FIN 103	Principles of Finance	3
FREE ELECTIVE		3	LS 100	Organizational Behavior	3
		<i>Total:</i> 20			<i>Total:</i> 18

### FOURTH YEAR

<u>First Semester</u>		<u>Units</u>	<u>Second Semester</u>		<u>Units</u>
PH 103/PH 104	Philosophy of Religion/ Foundations of Moral Value	3	PH 103/PH 104	Philosophy of Religion/ Foundations of Moral Value	3
TH 151	The Catholic Commitment of Today's Filipino: A Synthesis	3	TH 141	A Theology of the Catholic Social Vision	3
HI 166	Philippine History	3	LS 127	Strategy Implementation	3
POS 100	Politics and Governance	3	EC ELECTIVE		3
LS 126	Strategy Formulation	3	MGT ELECTIVE		3
EC 177	Theory and Practice of Social Development	3	FREE ELECTIVE		3
		<i>Total:</i> 18			<i>Total:</i> 18

## MINOR IN ECONOMICS

The Minor in Economics is for students who are interested in acquiring basic facility in economic theory. It provides an economic framework to complement the student's major field of specialization, allowing him/her to have a greater appreciation of current social and economic concerns.

The Minor is open to all Loyola Schools undergraduate students, except those pursuing AB Economics (Standard and Honors) and AB Management Economics, and students with double-major status in the Department of Economics. To be admitted into the Minor Program, students must have obtained a grade of at least C in EC 102 and an unweighted average QPI of at least 1.75 in all math courses taken at the time of application. Students must maintain an unweighted average of at least C in all the required courses for the Minor.

The Minor requires four core and major courses (12 units) and five electives (15 units) in economics for Management Engineering students; and four core and major courses (12 units) plus two electives (6 units) for non-Management Engineering students. The four core and major courses are EC 102, EC 111, EC 112, and EC 121 or EC 122.

## COURSE OFFERINGS

### EC 102 BASIC ECONOMICS, AGRARIAN REFORM AND TAXATION

**3 units**

This course is a study of the behavior and performance of the economy, the roles and functions of the market, State, households and firms, and their interaction. Basic macro- and micro-economic concepts and methodology are discussed.

### EC 111 INTERMEDIATE MICROECONOMIC THEORY

**3 units**

**Pre-requisite: EC 102**

This course is an analysis of the pricing processes in a market economy under varying competitive conditions, their role in the allocation of resources, and the functional distribution of national income.

### EC 112 INTERMEDIATE MACROECONOMIC THEORY

**3 units**

**Pre-requisite: EC 102**

This course is an introduction to the theory of national income determination and economic growth in alternative models of the economy and the interaction and relation of aspects of these models to empirical aggregate analysis.

### EC 113 ECONOMICS OF MONEY AND BANKING

**3 units**

**Pre-requisite: EC 112**

This is a systematic treatment of the determinants of money supply, volume of credit, and monetary theory. Topics include economic analysis of credit markets and financial institutions in the Philippines such as commercial banks, the Central

Bank, rural banks, insurance companies, and agricultural credit cooperatives.

### EC 114 INTERNATIONAL FINANCE

**3 units**

**Pre-requisite: EC 112**

This course is a study of the institutions of international liquidity. Topics include the national and international accounts, problems of the balance of payments, sources of imbalances, payments balance and economic policy, exchange rate readjustment, and the function of international cooperation.

### EC 115 INTRODUCTION TO MATHEMATICAL ECONOMICS

**3 units**

**Pre-requisites: MA 20**



This course is an application of elementary mathematical techniques in economic analysis. Topics include economic models, static analysis, comparative static analysis, constrained and unconstrained optimization problems, duality theory, linear programming, and game theory.

**EC 116**  
**STATISTICS FOR**  
**ECONOMISTS**  
**3 units**

**Pre-requisites:** EC 102, MA 20

This course is an introduction to statistical analysis for economics. Topics include measures of central tendency and dispersion, probability theory, random variables, and special distribution functions such as the binomial, Poisson, and normal distributions, hypotheses testing, correlation analysis, and simple and multiple linear regression models.

**EC 117**  
**INTRODUCTION TO**  
**ECONOMETRICS**  
**3 units**

**Pre-requisites:** EC 112, EC 115, EC 116

This course is a study of the behavior of observed variables using quantitative analyses of actual economic phenomena. Topics include single equation estimation procedures, the Generalized Least Squares method, serial correlation, stochastic regressors and lagged regressors, and estimation of simultaneous systems of equations.

**EC 121**  
**DEVELOPMENT ECONOMICS**  
**3 units**

**Pre-requisite:** EC 112

This course studies provoking and maintaining accelerated economic growth and equity in less developed countries. Emphasis is on competing perspectives on development,

interaction of socio-cultural change and economic growth, outside participation in economic modernization, the role of the state, and the role of international specialization.

**EC 122**  
**INTERNATIONAL TRADE**  
**3 units**

**Pre-requisite:** EC 111

This course introduces international trade theory and policy. Topics include a systematic treatment of traditional comparative advantage theory and new trade theory based on economies of scale. Emphasis is on the importance of the foreign exchange market using the asset approach to exchange rate determination.

**EC 124**  
**HISTORY OF**  
**ECONOMICS I**  
**3 units**

**Pre-requisite:** EC 102

This course is a survey of the development of economic ideas from the early modern period to the 20<sup>th</sup> century. Extensive readings include the Mercantilists, Hume, Smith, Ricardo, Mill, Malthus, and Marx.

**EC 125**  
**HISTORY OF**  
**ECONOMICS II**  
**3 units**

**Pre-requisite:** EC 102

This course is a survey of the development of economic ideas from Cournot, Jevons, Marshall, Veblen, Mitchell, Walras, J.M. Clark, Keynes, E. Chamberlin, J. Robinson, and Schumpeter to recent developments.

**EC 130**  
**ECONOMIC HISTORY OF THE**  
**PHILIPPINES**  
**3 units**

**Pre-requisite:** EC 102

This course is an analysis of the colonial and contemporary

economic policies and institutions with special stress on the Philippine adaptation of the systems since 1946.

**EC 131**  
**ECONOMIC HISTORY OF**  
**MODERN JAPAN**  
**3 units**

**Pre-requisite:** EC 102

This course is a study of the processes and problems of economic growth and the evolution of economic institutions since the Tokugawa period.

**EC 132**  
**ECONOMIC HISTORY OF**  
**MODERN EUROPE**  
**3 units**

**Pre-requisites:** EC 102, HI 18

This course analyzes significant processes and relationships in the economic development of Europe from the close of the Middle Ages to the present. Attention is given to the reciprocal relationships between the social and political context and the behavior of the economy over time.

**EC 133**  
**ECONOMIC HISTORY OF THE**  
**UNITED STATES**  
**3 units**

**Pre-requisites:** EC 102, HI 18

This course is an examination of the major characteristics of the American economy from the late colonial period to the present. Special emphasis is given to the functional relationship between structural changes in the economy, political, demographic, and social variables.

**EC 134**  
**COMPARATIVE ECONOMIC**  
**DEVELOPMENT IN**  
**SOUTHEAST ASIA AND EAST**  
**ASIA**  
**3 units**

**Pre-requisite:** EC 102

This course is a survey of economic development in Southeast Asia and East Asia



toward discovering typologies of development.

**EC 141  
MANAGERIAL ECONOMICS  
3 units**

**Pre-requisite:** EC 111

This course applies general economic principles to the solution of business problems, with a view to developing an economic approach to management decisions. Relevant economic concepts such as imperfect competition, profits, demand, and cost are used as guiding principles in making managerial decisions.

**EC 142  
FINANCIAL ECONOMICS  
3 units**

**Pre-requisite:** EC 111

This course studies corporations as economic institutions for ordering the allocation of resources. Topics include short-term and capital financing, financial expansion and reorganization, emerging money and capital markets in the Philippines, and current programs for correcting dislocations in the financial structure of domestic firms.

**EC 150  
ECONOMICS OF PUBLIC  
FINANCE  
3 units**

**Pre-requisite:** EC 102

This course is an analysis of the role of government in allocating resources through its tax-expenditures program. Focus is on the national government and the use of fiscal policies to promote growth and maintain economic stability. Evaluation criteria are developed and applied to specific policies.

**EC 153  
HEALTH ECONOMICS  
3 units**

**Pre-requisite:** EC 111

This course is an introduction to economic analysis as applied to the health sector. Topics include the relationships between health and development, current concerns on efficiency and equity of public and private systems, evaluation of health and health care, and pricing and government regulations.

**EC 155  
ECONOMICS OF LABOR  
3 units**

**Pre-requisite:** EC 111

This course studies the institutional organization of labor markets and major policy questions involved. Topics include wage and employment theory, determinants of the level and structure of wage, technological change, unemployment, poverty and income distribution, inflation and income policy, and international trade and labor policy.

**EC 157  
URBAN AND REGIONAL  
DEVELOPMENT  
3 units**

**Pre-requisite:** EC 102

This course is a study of the economics of industry location, land utilization, urban structure, and regional expansions. Emphasis is on their interdependence and the contribution of public policy to local objectives, methods, stability, and balance.

**EC 159  
ECONOMICS OF NATURAL  
RESOURCES AND  
ENVIRONMENT  
3 units**

**Pre-requisite:** EC 111

This course studies the effects of economic activities on the environment and the policy tools to address environmental problems. Topics include the economic functions of the environment; the meaning of

sustainable development; concepts of environmental rights and justice; and the importance of environmental education

**EC 160  
ECONOMICS OF  
AGRICULTURAL  
DEVELOPMENT  
3 units**

**Pre-requisite:** EC 102

This course is an analysis of the transformation of a country's agricultural sector to support industrial and service sectors. Topics include the problem and processes of evoking agricultural modernization, techniques of capturing gains in agricultural productivity for accelerated capital accumulation, and major policy implications involved.

**EC 161  
PRIVATE ENTERPRISE AND  
PUBLIC POLICY  
3 units**

**Pre-requisite:** EC 102

This course is an economic analysis of public policy in the private enterprise system. Topics include the bases for defining the public and private sectors, role of economic nationalism through public legislation, and economic performance of industrial organizations characterized by varying degrees of government intervention.

**EC 170  
COMPARATIVE ECONOMIC  
SYSTEMS  
3 units**

**Pre-requisite:** EC 102

This course is a comparative study of the economic performance of various free and planned economies on the following major points: stability, resource utilization and growth of industrial and agricultural production, consumption, investment, foreign trade, and total output.

**EC 171**  
**ECONOMIC RESEARCH I**  
**3 units**

**Pre-requisite:** EC 117

This course applies research procedures and integrating theories and statistical analysis in the writing of a thesis.

**EC 177**  
**THEORY AND PRACTICE OF SOCIAL DEVELOPMENT**  
**3 units**

**Pre-requisite:** EC 121

This course is an integration of the theory and practice of social development through exposure to and analysis of social organizations working with various grassroots sectors in the society. The course is built on the principles of general equilibrium and social welfare theory.

**EC 180**  
**ECONOMICS OF MULTINATIONAL ENTERPRISES**  
**3 units**

**Pre-requisite:** EC 102

This course is an integration of economic theory and empirical evidence to facilitate an understanding of the role of the Multinational Corporation (MNC) in international business.

**EC 185.1**  
**SPECIAL TOPICS IN ECONOMICS: PEASANT ECONOMY**  
**3 units**

**Pre-requisite:** EC 102

This course studies the peasantry as a theoretical category of political economy. Topics include the existence and nature of the peasant economy, the external relationship of the peasantry with the national and global economy, and the relationship of agriculture to industry in a peripheral economy.

**EC 185.2**  
**SPECIAL TOPICS IN ECONOMICS: INTERNATIONAL ECONOMIC RELATIONS**  
**3 units**

**Pre-requisite:** EC 102

This course explores various economic topics relating to the open economy, including a survey of international trade theories. Topics include controversial issues in the debate over trade liberalization, the role of international bodies such as the World Bank, and the importance of international factor movements.

**EC 185.3**  
**SPECIAL TOPICS IN ECONOMICS: DISTRIBUTIVE JUSTICE**  
**3 units**

**Pre-requisite:** EC 111

This course is a study of different concepts of fairness as used in economics. The theoretical concepts are used to aid the process of economic policy-making especially in the area of regulation. The philosophical roots of economic justice are also discussed.

**EC 185.5**  
**SPECIAL TOPICS IN ECONOMICS: RURAL DEVELOPMENT**  
**3 units**

**Pre-requisite:** EC 102 or EC 121

This course is an analysis of the agrarian situation within the framework of the logic of capitalism in relation to peripheral economies. Principles of project and resource management are also discussed as tools that can aid in the goal of rural development.

**EC 185.10**  
**SPECIAL TOPICS IN ECONOMICS: MARXIST POLITICAL ECONOMY**  
**3 units**

This is a workshop course on the original text by Karl Marx. Focus is on economic theory.

**EC 185.12**  
**SPECIAL TOPICS IN ECONOMICS: INTERNATIONAL POLITICAL ECONOMY**  
**3 units**

**Pre-requisite:** EC 102

This course introduces international political economy, integrating the insights of economics and political science and focusing on the activities within particular states and the international arena. Topics include the ideologies of international political economy, the experiences of developed and developing economies, and Philippine trade policies.

**EC 185.13**  
**SPECIAL TOPICS IN ECONOMICS: ECONOMICS OF HUMAN RESOURCES**  
**3 units**

**Pre-requisite:** EC 111

This course introduces topics pertaining to human resources, including human capital and labor markets. Focus is on specific issues such as returns to education and other types of human investment, the distribution of earnings and income, population growth and poverty, and labor market policy.

**EC 185.16**  
**SPECIAL TOPICS IN ECONOMICS: STATE AND DEVELOPMENT**  
**3 units**

This course is an introduction to perspectives in the politics of development and the theory of the state, underlining the importance of the "political

element” in the development process. Particular attention is given to the twin issues of the “developmental state” and the “democratic state.”

**EC 185.18  
SPECIAL TOPICS IN  
ECONOMICS: DEVELOPMENT  
PLANNING**

**3 units**

**Pre-requisite: EC 121**

This course is an overview of development planning, including the rationale for planning in developing countries. The lectures cover macroeconomic methods, sector/inter-industry analysis, project appraisal, and regional and spatial planning models. Emphasis is given to the Philippine experience with development planning.

**EC 185.19  
SPECIAL TOPICS IN  
ECONOMICS:  
INTERNATIONAL  
MONETARY ECONOMICS**

**3 units**

**Pre-requisite: EC 112**

This course examines the balance of payments; open economy microeconomics, including the concepts of interest rate parity and purchasing power parity; open economy macroeconomics, exchange rate determination, devaluation and inflation; the choice of exchange rate regime; and the economics of debt.

**EC 185.20  
SPECIAL TOPICS IN  
ECONOMICS:  
CONTEMPORARY ISSUES IN  
JAPANESE ECONOMY AND  
BUSINESS MANAGEMENT**

**3 units**

This course discusses contemporary issues in Japan’s domestic economy and international economic issues involving Japan. Topics include factors behind the strong yen, impact of a strong yen, impact of

an aging Japanese population, recession and recovery in Japan, and the role of Japan in Asia.

**EC 185.22  
SPECIAL TOPICS IN  
ECONOMICS: PHILIPPINE-  
JAPAN RELATIONS**

**3 units**

This course is a survey of Philippine-Japan relations from the 16<sup>th</sup> century to the present. Topics include immigration, trade, investments, and cultural exchanges.

**EC 185.27  
SPECIAL TOPICS IN  
ECONOMICS: POLICY  
ECONOMICS**

**3 units**

**Pre-requisite: EC 111**

This course studies policy reform in the Philippines and the development of a realistic policy. Topics include the economic analysis of government operations and the role of the private sector in the provision of basic services. Main policy areas include modernization, democratization, poverty, and environment.

**EC 185.28  
SPECIAL TOPICS IN  
ECONOMICS: THEORY OF  
CONSUMER BEHAVIOR AND  
APPLIED DEMAND ANALYSIS**

**3 units**

**Pre-requisite: EC 111**

This course deals with modeling empirical consumer demand systems, measuring consumer welfare changes, and calculating true cost-of-living indices. These are treated in an integrated framework from theory to practice, embodying theoretical restrictions essential for the theoretical validity of the results from estimated demand systems.

**EC 185.29  
SPECIAL TOPICS IN  
ECONOMICS: INDUSTRIAL  
ORGANIZATION**

**3 units**

**Pre-requisite: EC 111**

This course studies the “structure-conduct-performance” paradigm of industrial organization economics, focusing on issues such as industry concentration, economies of scale, and alternative theories of the firm. Emphasis is on firm behavior. Topics include game-theoretic reinterpretations of oligopoly theories, limit pricing, and strategic entry deterrence.

**EC 185.30  
SPECIAL TOPICS IN  
ECONOMICS:  
PROJECT/INDUSTRIAL  
ANALYSIS**

**3 units**

**Pre-requisite: EC 111**

This course studies economic analysis of investment projects. Topics include the concept of the project cycle and the logical framework approach to projects as well as the theoretical foundations and different methodologies of financial and economic or social cost-benefit analysis of projects of different industries.

**EC 185.33  
SPECIAL TOPICS IN  
ECONOMICS:  
OTHER TOPICS IN  
MATHEMATICAL  
ECONOMICS**

**3 units**

**Pre-requisite: EC 115**

This course studies advanced mathematical techniques and their applications in economic theory and applied economic analysis. Two important areas of mathematical economics are covered: dynamic analysis and optimization (differential and difference equations, simultaneous dynamic equations),

and linear optimization models (game theory and input-output economics).

**EC 185.35**  
**SPECIAL TOPICS IN**  
**ECONOMICS: OPTIONS,**  
**FUTURES, AND OTHER**  
**DERIVATIVES**

**3 units**

**Pre-requisite:** EC 102 or  
EC 121

This course studies risk and its management with the use of financial instruments. The course discusses the different financial derivatives, from futures and options to more exotic instruments. Contract specifications, trading rules, pricing, and hedging strategies are discussed for each of the financial derivatives studied.

**EC 185.36**  
**SPECIAL TOPICS IN**  
**ECONOMICS:**  
**GAME THEORY**  
**FOR ECONOMISTS**

**3 units**

**Pre-requisite:** EC 115

This course is an introduction to game theory with emphasis on non-cooperative game theory: static and dynamic games of complete and incomplete information. Other topics include the basics of cooperative game theory, theories of bargaining, and the limits of game-theoretic economic analysis.

**EC 185.37**  
**SPECIAL TOPICS IN**  
**ECONOMICS: ECOLOGY OF**  
**NATURAL RESOURCES**

**3 units**

**Pre-requisite:** EC 111

This course discusses nature as an elaborate web of ecological systems, how ecosystems function and relate with each other, and how man is inextricably attached to the natural world; focusing on the apparent conflict between the ecosystem and socio-economic

needs filled through natural resource use.

**EC 185.38**  
**SPECIAL TOPICS IN**  
**ECONOMICS: ECONOMIC**  
**HISTORY OF MODERN JAPAN**

**3 units**

This course deals with the economic growth of Japan in a span of a century from the Meiji Restoration to contemporary times. Students gain a perspective on patterns of change or continuity in Japan's economic history. Focus is also on Japanese contemporary economic policy.

**EC 185.39**  
**SPECIAL TOPICS IN**  
**ECONOMICS: INPUT-OUTPUT**  
**ECONOMICS**

**3 units**

**Pre-requisite:** EC 115

This course is a study of input-output models of national economies using linear algebra as a tool for input-output analysis. This technique can be used for planning purposes and multiplier analysis.

**EC 185.40**  
**SPECIAL TOPICS IN**  
**ECONOMICS: NGOS IN THE**  
**PHILIPPINE ECONOMY**

**3 units**

**Pre-requisite:** EC 102

This course is an overview of the contribution of non-governmental organizations (NGOs) to Philippine development, emphasizing activities and dynamics of NGOs vis-à-vis other institutions. Topics include theoretical explanations of emergence of NGOs and their role in the economy, the political arena, and in social transformation.

**EC 185.41**  
**SPECIAL TOPICS IN**  
**ECONOMICS:**  
**ETHICS AND ECONOMICS**

**3 units**

**Pre-requisite:** EC 102

This course examines the ethical concerns in economic policy and policy in general focusing on issues about justice and inequality, efficiency and Pareto optimality, maximization of welfare, poverty, freedom, and rights. The theoretical inadequacy of contemporary utilitarian-based normative economics or welfare economics is presented.

**EC 185.42**  
**SPECIAL TOPICS IN**  
**ECONOMICS:**  
**INTRODUCTION TO**  
**EUROPEAN ECONOMIC**  
**INTEGRATION**

**3 units**

**Pre-requisite:** EC 102

This course is a study of economic theories and empirical studies on European economic integration through the adoption of common policies and the elimination of economic frontiers. Focus is on the relevant economic theories and empirical studies to understand the integration process.

**EC 185.43**  
**SPECIAL TOPICS IN**  
**ECONOMICS:**  
**TRANSPORTATION**  
**ECONOMICS**

**3 units**

**Pre-requisite:** EC 111

This course is an introduction to economic concepts and principles, analytical and empirical methods, and empirical studies used to solve problems encountered in the transport sector, including public policy developments in the Philippines and around the world.

**EC 185.48  
SPECIAL TOPICS IN  
ECONOMICS: MODERN  
CHINESE ECONOMY**

**3 units**

This course is an introduction to the modern Chinese economy focusing on reforms undertaken to move from a centrally-planned to a market-oriented economy, and how it has increasingly integrated itself into the global economy.

**EC 185.50  
SPECIAL TOPICS IN  
ECONOMICS: COMPARATIVE  
ECONOMICS DEVELOPMENT  
IN SOUTHEAST ASIA AND  
EAST ASIA**

**3 units**

This course is a special class conducted with TIOS Consulting, a French Consulting firm involved in various projects in Southeast Asia. Focus is on the economies of ASEAN, their dynamics towards integration and their relations with East Asian countries. The course is considered an internship for the students enrolled.

**EC 185.57  
SPECIAL TOPICS IN  
ECONOMICS: SURVEY  
SAMPLING METHODS FOR  
ECONOMISTS**

**3 units**

*It is useful for the student to be familiar with micro-economic theory and have sufficient knowledge of statistics or econometrics.*

This course introduces the history, theories, and methods of survey research. Focus is on the design, development, execution, and analysis of surveys. Survey sampling, question construction, questionnaire design, survey data analysis, and research ethics are covered. Topics include the theoretical and intellectual bases of surveys.

**EC 185.58  
SPECIAL TOPICS IN  
ECONOMICS: ECONOMICS OF  
POPULATION/ECONOMIC  
DEMOGRAPHY**

**3 units**

This course examines the factors that lead to population growth and its economic consequences. Using household consumption and production models, the existing conditions pertaining to the country's demography are not only analyzed, but the evolution of the different methodologies used is also considered.

**EC 185.60  
SPECIAL TOPICS IN  
ECONOMICS:  
ENVIRONMENTAL POLICY**

**3 units**

**Pre-requisites: EC 111, EC 112**

This course discusses the selection and design of policy instruments for the environment. Topics include the need for environmental and natural resource policy, categories of policy instruments and their effects, criteria in selecting policy instruments, and policy instruments for water, forestry, and agriculture, among others.

**EC 185.61  
SPECIAL TOPICS IN  
ECONOMICS:  
SOCIAL, POLITICAL, AND  
ECOLOGICAL ECONOMICS**

**3 units**

**Pre-requisite: EC 102**

This course is a historical map of economic thought including contemporary social, political, and ecological economics. The early classical works of the Physiocrats, Sismondi, John Stuart Mill, and Karl Marx, and the development of these thoughts are traced to provide fresh insights into modern problems.

**EC 185.62  
SPECIAL TOPICS IN  
ECONOMICS: THEORY OF  
CAPITALIST DEVELOPMENT**

**3 units**

**Pre-requisite: EC 102**

This course is an introduction to the fundamental theory of capitalism and capitalist development (as developed by Karl Marx and Marxists). Students learn the basics of capitalist dynamics, from its strengths to its problems. Topics include value creation, accumulation, crises and depressions, and imperialism.

**EC 185.63  
SPECIAL TOPICS IN  
ECONOMICS: COMPARATIVE  
ECONOMIC THEORIES:  
NEOCLASSICAL VS.  
MARXIAN ECONOMICS**

**3 units**

**Pre-requisite: EC 102**

This course is an introduction to the debates between capitalism and socialism. Students review the representative economic theory of capitalism (Neoclassical economics) and discover the representative economic theory of socialism (Marxian economics).

**EC 185.65  
SPECIAL TOPICS IN  
ECONOMICS: LAW AND  
ECONOMICS**

**3 units**

This course introduces the economic approach to the analysis of the law. Economic theories are used to assess the economic efficiency of laws and legal rules and to identify the best way to design rules that maximize social welfare.

**EC 185.66  
SPECIAL TOPICS IN  
ECONOMICS: WORKSHOP IN  
HAPPINESS ECONOMICS**

**3 units**

The course is an introduction to the economics and psychology of subjective well-being.



3/F Social Sciences Building  
(632) 426-6001 loc. 5230/5231  
educ\_atc@admu.edu.ph  
www.ateneo.edu/soss

## EDUCATION

### **Cornelia C. Soto**

*Chair*

### **Faculty Professor**

James A. O'Donnell, S.J.

### **Associate Professor**

Ma. Celeste T. Gonzalez

### **Assistant Professor**

Cornelia C. Soto

### **Instructor**

Rhodora F. Nicdao

### **Lecturers**

Ma. Resurreccion P. Alejo

Ma. Rita J. Atienza

Eduardo C. Caligner

Ma. Humildad F. Claro

Consolacion J. Concepcion

Maria Asuncion A. Cruz

Eva K. Galvey

Delia C. Hernandez

Marc V. Hernandez

Hope L. Leyson

Faustino R. Madriaga, Jr.

Ma. Monica L. Moreno

Marissa R. Nepomuceno

Jaime Jose G. Nicdao

Maria Paz Monica O. Ortiz

Gerard H. Reyes

Rey R. Reyes

Edwin P. Santiago

Earl Allyson P. Valdez

Jeraldine K. Wu

The Education Department of the Ateneo de Manila University envisions empowered educators who understand their profession and vocation and assume leadership in influencing educational policies and directions.

It aims to accomplish this vision through graduate degree programs grounded on sound pedagogical theories and on the Jesuit tradition of intellectual excellence and service for others. It strives to provide an environment conducive to research and inquiry in various areas of education and to conduct retraining programs for education practitioners.

As part of the Ateneo de Manila University, the Education Department reiterates its commitment to the eminent mission of the University as a Filipino, Catholic, and Jesuit institution of higher learning.



## MINOR IN EDUCATION

With the increasing demand for competent teachers, many non-education majors consider teaching as an option after graduation. Undergraduates in the University take education units as electives. However, they find that these undergraduate courses are not sufficient credentials to be able to teach in the basic education level and to take the licensure examination for teachers. The Department of Education responds to this need of the students by offering a Minor in Education program.

The Minor in Education aims to introduce non-major students to the profession of education and provide them an opportunity to explore education as a career as well as to expose them to pedagogical knowledge and skills that are essential for effective teaching.

Any student enrolled in an undergraduate program in the Loyola Schools of Ateneo de Manila may apply for this minor. The following are the required courses and electives under the program:

### Required Courses

ED 33	Principles and Methods of Teaching	3 units
ED 134	Educational Psychology	3 units
ED 135	Classroom Assessment	3 units
ED 136	Fundamentals of Education	3 units

### Electives

Any course from the following:

ED 140.1	Classroom Observation	3 units
ED 140.2	Practice Teaching	3 units

## COURSE OFFERINGS

### **ED 33**

#### **PRINCIPLES AND METHODS OF TEACHING**

**3 units**

This course introduces the different techniques of teaching in different subject areas, preparation of lessons, the use of instructional materials and media, and classroom management. The course is designed to help prospective teachers explore and reflect on the process of becoming an effective teacher.

### **ED 33.1**

#### **FIELD STUDY: EXPERIENCING THE TEACHING-LEARNING PROCESS**

**1 unit**

This is a field course anchored on ED 33: Principles and Methods of Teaching. Students are provided with opportunities to observe the application of teaching theories and principles in the learning environment.

### **ED 131**

#### **THE TEACHING PROFESSION**

**3 units**

This course is a study of the characteristics of a teacher as a person and the competencies of a

professional teacher. Students define their personal values, attitude, and beliefs about teaching.

### **ED 131.1**

#### **FIELD STUDY: ON BECOMING A TEACHER**

**1 unit**

This is a field study course anchored on ED 131: The Teaching Profession. It is designed to provide real life and vicarious experiences of teachers. Emphasis is on the characteristics of a teacher as a person and as a professional.

**ED 132**  
**CURRICULUM**  
**DEVELOPMENT**  
**3 units**

This course is an introduction to the basic principles of curriculum planning, design, and implementation.

**ED 132.1**  
**FIELD STUDY:**  
**UNDERSTANDING**  
**CURRICULUM**  
**DEVELOPMENT**  
**1 unit**

This is a field study course anchored on ED 132: Curriculum Development. Students are given an opportunity to apply and gain insights on curriculum design and implementation.

**ED 134**  
**EDUCATIONAL**  
**PSYCHOLOGY**  
**3 units**

This course is a study of human learning, development, and motivation. Focus is on translating learning theories, concepts, and principles into applications for any teaching-learning situation.

**ED 134.1**  
**FIELD STUDY: LEARNERS**  
**DEVELOPMENT AND**  
**ENVIRONMENT**  
**1 unit**

This is a field study course anchored on ED134: Educational Psychology. Students are provided with opportunities to observe the learner's behavior in their actual learning environment and to recognize their holistic development in the classroom.

**ED 135**  
**CLASSROOM ASSESSMENT**  
**3 units**

This course is an introduction to assessment principles that specifically relate to instruction. Students develop skills in constructing classroom tests and

assessments that measure a variety of learning outcomes and gain competence in administering and interpreting test results.

**ED 135.1**  
**FIELD STUDY: LEARNING**  
**ASSESSMENT STRATEGIES**  
**1 unit**

This is a field study course anchored on ED 135: Classroom Assessment. Students are provided with hands-on experiences in selecting, constructing, and evaluating conventional and alternative assessment tools used in the learning environment based on the principles of testing.

**ED 136**  
**FUNDAMENTALS OF**  
**EDUCATION**  
**3 units**

This course is a study of the basic theories, principles, and concepts in education. Students are given a frame of reference for understanding current issues and problems in the field of education.

**ED 140.1**  
**CLASSROOM OBSERVATION**  
**3 units**

This course is concerned primarily with classroom experiences that enhance effective teaching and learning. It is designed to allow students to be actively engaged in the learning process through actual observation, reflection, and evaluation of classroom experiences.

**ED 140. 2**  
**PRACTICE TEACHING**  
**3 units**

This is a practice course designed to familiarize students with the guidelines and principles of teaching. Students work with a teacher in the classroom to familiarize themselves with different teacher roles and school and classroom routine.



Room 307 Ricardo & Dr. Rosita Leong Hall  
(632) 426-6001 loc. 5238/5239  
fax: (632) 927-5814  
europrogram@admu.edu.ph

# EUROPEAN STUDIES

**Marissa Maricosa A. Paderon**  
*Director*

**Faculty  
Instructor**  
Manuel R. Enverga III

**Lecturers**  
Tito O. Bernabe  
Vicente C. Betos  
Kritzman G. Caballero  
Clarita R. Carlos  
Joseph Immanuel G. Casimiro  
Irwin A. Cruz  
Jamina V. Hugo  
Anna Rosario D. Malindog  
Rosario G. Manalo  
Atanacio D. Panahon II  
Godofredo M. Ramizo, Jr.  
Javier Rico Israel R. Tionloc  
Nastasia Mikhaila L. Tysmans

**Faculty of Other Departments**  
**Professor**  
Victor S. Venida

**Assistant Professors**  
Cristina M. Bautista  
Marisse Maricosa A. Paderon

**Lecturers**  
Neil Adrian S. Cabiles  
Sedfrey M. Candalaria

The European Studies Program shall lead in the provision of a comprehensive knowledge particularly in the Philippine-EU Business and International Relations thereby enhancing the Philippines' role in the Global community.

The fundamental mission of the European Studies Program is to develop future professionals who possess a keen understanding of the European Union institutions and processes. This would maximize opportunities provided by the integration of the European Union to Philippine business, economic and political environment.

The program seeks to

- contribute to the creation of a wider pool of professionals who will have an understanding of the European Union and its relations with ASEAN and the Philippines, and can guide Philippine decision makers and policy makers to face the challenges and take advantage of the opportunities presented by its development;
- broaden the students' awareness of European culture and to help them acquire effective communication skills in a European language other than English; and
- provide students with a macro view of European business, economic and political environment, giving them a particular context within which to apply functional area skills.

## BACHELOR OF ARTS, MAJOR IN EUROPEAN STUDIES (BUSINESS OR INTERNATIONAL RELATIONS TRACK)

**AB European Studies** is a multidisciplinary program focusing on the political, economic, social, and cultural institutions of the European Union and its policymaking process. Special focus is given to the European integration process, as well as links between Europe and the Philippines. Students can specialize in any of the two tracks—**International Relations**, focusing on the internal and external political dynamics of Europe; and **Business and Economics**, which does not only concentrate on Europe's business and economy, but provides students with general skills in business, finance, and accounting. Students are required to specialize in any of the three European languages (*Spanish, French or German*).

The Program gives the students the advantage of first-hand business and cultural exposure of the continent through a study tour, summer internship (local or overseas), study abroad program and service learning courses.

## BACHELOR OF ARTS, MAJOR IN EUROPEAN STUDIES (BUSINESS AND ECONOMICS TRACK)

### FIRST YEAR

<u>First Semester</u>	<u>Units</u>	<u>Second Semester</u>	<u>Units</u>
EN 11 Communication in English I	3	EN 12 Communication in English II	3
LIT 13 Introduction to Fiction	3	LIT 14 Introduction to Poetry and Drama	3
MA 11 Modern Mathematics I	3	MA 12 Modern Mathematics II	3
FIL 11 Sining ng Pakikipagtalastasan sa Filipino I	3	FIL 12 Sining ng Pakikipagtalastasan sa Filipino II	3
NATSCI 1A Natural Science, Lecture	3	NATSCI 2A Natural Science, Lecture	3
NATSCI 1B Natural Science, Laboratory	1	NATSCI 2B Natural Science, Laboratory	1
PE 1 Physical Education	(2)	PE 2 Physical Education	(2)
INTAC 1 Introduction to Ateneo Culture and Traditions	(0)	INTAC 2 Introduction to Ateneo Culture And Traditions	(0)
<b>Total:</b>	<b>16</b>	<b>Total:</b>	<b>16</b>

### SECOND YEAR

<u>Summer</u>	<u>Units</u>
FIL 14 Panitikan ng Pilipinas	3
PSY 101 General Psychology	3
<b>Total:</b>	<b>6</b>

<u>First Semester</u>	<u>Units</u>	<u>Second Semester</u>	<u>Units</u>
HI 18.1 Western History: From Early Times to The Early Modern Period	3	HI 18.2 Western History: From Modern Times to World War II	3
TH 121 An Introduction to Doing a Catholic Theology	3	SCI 10 Science and Society	3
FLC 1 * Foreign Language and Culture	3	FLC 2 * Foreign Language and Culture	3
EC 102 Basic Economics, Agrarian Reform and Taxation	3	ACC 15 Fundamentals of Accounting	3
SA 21 Introduction to Sociology and Anthropology	3	EU 22 Policies and Institutions of the European Union	3
POS 100 Politics and Governance	3	EU 23 Ideological Influences on the Politics of Contemporary Europe and European Union	3
PE 3 Physical Education	(2)	PE 4 Physical Education	(2)
NSTP 1 National Service Training Program	(3)	NSTP 2 National Service Training Program	(3)
<b>Total:</b>	<b>18</b>	<b>Total:</b>	<b>18</b>

### THIRD YEAR

<u>First Semester</u>	<u>Units</u>	<u>Second Semester</u>	<u>Units</u>
PH 101 Philosophy of the Human Person I	3	PH 102 Philosophy of the Human Person II	3
FLC 3 * Foreign Language and Culture	3	TH 131 Marriage, Family Life and Human Sexuality in a Catholic Perspective	3
HI 165 Rizal and the Emergence of the Philippine Nation	3	FLC 4 * Foreign Language and Culture	3
FIN 101 Fundamentals of Finance	3	EU 151 Economics of European Integration	3
MKT 101 Principles of Marketing	3	EU 152 European Political and Social Integration	3
FREE ELECTIVE	3	EU ELECTIVE	3
<b>Total:</b>	<b>18</b>	<b>Total:</b>	<b>18</b>

## FOURTH YEAR

### Summer

EU 160 Research Methods

### Units

3

Total: 3

### First Semester

PH 103/ Philosophy of Religion/  
PH 104 Foundations of Moral Value  
TH 141/ A Theology of the Catholic Social Vision/  
TH 151 The Catholic Commitment of  
Today's Filipino: A Synthesis  
HI 166 Philippine History  
FLC 5 Business Language  
EU 131 European Business and  
Macroeconomic Environment  
EU ELECTIVE

### Units

3

3

3

3

3

3

3

3

3

3

Total: 18

### Second Semester

PH 103/ Philosophy of Religion/  
PH 104 Foundations of Moral Value  
TH 141/ A Theology of the Catholic Social Vision/  
TH 151 The Catholic Commitment of  
Today's Filipino: A Synthesis  
EU 161 Research on Europe  
EU 132 European Marketing and Business Strategy  
EU 133 International Economic Cooperation and  
Development Assistance  
FREE ELECTIVE

### Units

3

3

3

3

3

3

3

3

3

3

Total: 18

\* FLC 1 to FLC 5: Choice is limited to one language for all five courses.

Students may choose French (Fr), German (Gr), or Spanish (Sp) as their language of choice.

### Business Track Courses

1. ACC15 Fundamentals of Accounting
2. FIN 101 Fundamentals of Finance
3. MKT 101 Principles of Marketing
4. EU 131 European Business Environment
5. EU 132 European Marketing and Business Strategies
6. EU 133 Asia-Europe Eco-Political and Business Relations

Total Number of Academic Units: 149

Curriculum Effective Freshman Batch SY 2010-2011

## BACHELOR OF ARTS, MAJOR IN EUROPEAN STUDIES (INTERNATIONAL RELATIONS TRACK)

## FIRST YEAR

### First Semester

EN 11 Communication in English I  
LIT 13 Introduction to Fiction  
MA 11 Modern Mathematics I  
FIL 11 Sining ng Pakikipagtalastasan sa Filipino I  
NATSCI 1A Natural Science, Lecture  
NATSCI 1B Natural Science, Laboratory  
PE 1 Physical Education  
INTAC 1 Introduction to Ateneo Culture and Traditions

### Units

3

3

3

3

3

1

(2)

(0)

Total: 16

### Second Semester

EN 12 Communication in English II  
LIT 14 Introduction to Poetry and Drama  
MA 12 Modern Mathematics II  
FIL 12 Sining ng Pakikipagtalastasan sa Filipino II  
NATSCI 2A Natural Science, Lecture  
NATSCI 2B Natural Science, Laboratory  
PE 2 Physical Education  
INTAC 2 Introduction to Ateneo Culture and Traditions

### Units

3

3

3

3

3

1

(2)

(0)

Total: 16

## SECOND YEAR

### Summer

FIL 14 Panitikan ng Pilipinas  
PSY 101 General Psychology

### Units

3

3

Total: 6

### First Semester

HI 18.1 Western History: From Early Times  
to The Early Modern Period  
TH 121 An Introduction to Doing a Catholic Theology  
FLC 1 \* Foreign Language and Culture  
EC 102 Basic Economics, Agrarian Reform and Taxation  
SA 21 Introduction to Sociology and Anthropology  
POS 100 Politics and Governance  
PE 3 Physical Education  
NSTP 1 National Service Training Program

### Units

3

3

3

3

3

3

(2)

(3)

Total: 18

### Second Semester

HI 18.2 Western History: From Modern Times  
to World War II  
SCI 10 Science and Society  
FLC 2 \* Foreign Language and Culture  
EU 191.1 Basic Legal Concepts of the European Union  
EU 22 Policies and Institutions of the  
European Union  
EU 23 Ideological Influences on the Politics of  
Contemporary Europe  
and the European Union  
PE 4 Physical Education  
NSTP 2 National Service Training Program

### Units

3

3

3

3

3

3

(2)

(3)

Total: 18

### THIRD YEAR

<u>First Semester</u>		<u>Units</u>	<u>Second Semester</u>		<u>Units</u>
PH 101	Philosophy of the Human Person I	3	PH 102	Philosophy of the Human Person II	3
FLC 3 *	Foreign Language and Culture	3	TH 131	Marriage, Family Life and Human Sexuality in a Catholic Perspective	3
HI 165	Rizal and the Emergence of the Philippine Nation	3	FLC 4 *	Foreign Language and Culture	3
POS 130	International Relations	3	EU 151	Economics of European Integration	3
POS 192	Comparative Politics (Europe)	3	EU 152	European Political and Social Integration	3
FREE ELECTIVE		3	POS 131	International Political Economy	3
		<i>Total: 18</i>			<i>Total: 18</i>

### FOURTH YEAR

<u>Summer</u>		<u>Units</u>			
EU 160	Research Methods	3			
		<i>Total: 3</i>			

<u>First Semester</u>		<u>Units</u>	<u>Second Semester</u>		<u>Units</u>
PH 103/	Philosophy of Religion/		PH 103/	Philosophy of Religion/	
PH 104	Foundations of Moral Value	3	PH 104	Foundations of Moral Value	3
TH 141/	A Theology of the Catholic Social Vision/		TH 141/	A Theology of the Catholic Social Vision/	
TH 151	The Catholic Commitment of Today's Filipino: A Synthesis	3	TH 151	The Catholic Commitment of Today's Filipino: A Synthesis	3
HI 166	Philippine History	3	EU 161	Research on Europe	3
FLC 5 *	Business Language	3	EU 172	External Relations of the European Union	3
EU 171	European Diplomatic Practice	3	EU ELECTIVE		3
EU Elective		3	FREE ELECTIVE		3
		<i>Total: 18</i>			<i>Total: 18</i>

\* FLC 1 to FLC 5: Choice is limited to one language for all five courses.

Students may choose French (Fr), German (Gr), or Spanish (Sp) as their language of choice.

#### International Relations Track Courses

1. POS 192 Comparative Politics (Europe)
2. POS 130 International Relations
3. EU 191.1 Basic Legal Concepts of the European Union
4. POS 131 International Political Economy
5. EU 172 External Relations of the European Union

Total Number of Academic Units: 149

Curriculum Effective Freshman Batch SY 2010-2011

## MINOR IN EUROPEAN STUDIES

The Minor Program provides the students understanding and appreciation for Europe's history, culture, politics and economics. This knowledge equips the students with an appreciation of the business opportunities offered by the European Single Market, the common cultural and political heritage of Europe and the Philippines, and the political and diplomatic prospects of closer Philippine-European relations.

To earn the Minor, students must enroll and pass 15 units under the program. The following are the required courses and list of electives to choose from:

#### Required Courses (12 units)

EU 22	Policies and Institutions of the European Union	3 units
EU 23	Ideological Influences on the Politics of Contemporary Europe and the European Union	3 units
EU 151	Economics of European Integration (Pre-requisite: EU 22)	OR 3 units
EU 152	European Political and Social Integration	3 units
FLC 2	Foreign Language and Culture (Pre-requisite: FLC 1)	3 units



Elective (3 units)

Any EU course offered by the Program.

## COURSE OFFERINGS

**EU 22  
POLICIES AND  
INSTITUTIONS OF THE  
EUROPEAN UNION**

**3 units**

**Pre-requisite: HI 18.1**

This course looks at the formation, history and functions of European institutions as well as the policies generated by integration efforts since the Second World War. Topics are discussed in the context of postwar Europe and cover the relations with and influence of international institutions.

**EU 23  
IDEOLOGICAL INFLUENCES  
ON THE POLITICS OF  
CONTEMPORARY EUROPE  
AND THE EUROPEAN UNION**

**3 units**

This course deals with the ideological roots that guide the actions and statements of political actors in Europe. The course fuses elements from political ideology and parliamentary politics and combines with present-day development in European governance.

**EU 115  
THEORIES AND CONCEPTS  
OF EUROPEAN INTEGRATION**

**3 units**

This course is a survey of the theories and concepts that are related to the phenomenon of European Union integration. The course examines theories that have been associated with European integration through the literature in a number of fields in the social sciences.

**EU 131  
EUROPEAN BUSINESS AND  
MACROECONOMIC  
ENVIRONMENT**

**3 units**

**Pre-requisite: EU 22**

This course is a critical inquiry into the European business environment as well as the forces that currently shape it. The learning exercises look at the regulatory framework of the European Union and the extent at which common global forces affect the European business in Europe's macroeconomic environment.

**EU 132  
EUROPEAN MARKETING  
AND BUSINESS STRATEGIES**

**3 units**

**Pre-requisite: MKT 101**

This course examines the marketing processes by which the benefits of the emergence of the unified European market can be achieved. Students study strategic problems that European industries will face in the next decade, and develop a sense of dealing with these situations.

**EU 133  
INTERNATIONAL ECONOMIC  
COOPERATION AND  
DEVELOPMENT ASSISTANCE**

**3 units**

**Pre-requisites: EU 22**

This course introduces the students to the theories and policies regarding international cooperation in the global system. The course discusses works that define and examine the establishment and maintenance of international cooperation. It also

examines specific issues on overseas development assistance, specifically from Europe and its impact on developing countries.

**EU 150  
THE EUROPEAN UNION AND  
COMMUNITY BUILDING: A  
COMPARATIVE STUDY**

**3 units**

This course examines trends, patterns, and trajectories of the numerous interactions between state and non-state actors, with the European Union as the basis of comparison in an attempt to analyze and explain the theoretical underpinnings and the practical application of the phenomenon of regionalism.

**EU 151  
ECONOMICS OF THE  
EUROPEAN INTEGRATION**

**3 units**

**Pre-requisite: EU 22**

This course studies European integration from the point of view of economics. Topics include "real" and monetary economic integration theory and the rationale and effects of common European economic policies, such as the common agricultural policy, transport policy, and industrial and social policy.

**EU 152  
EUROPEAN POLITICAL AND  
SOCIAL INTEGRATION**

**3 units**

The course is a survey of the theories and concepts that are related to the phenomenon of European Union integration on the political and social fronts. In so doing, the course provides

students with basic frameworks and concepts to supplement their understanding of European regional integration.

**EU 160  
RESEARCH METHODS**

**3 units**

**Pre-requisite: MA 11**

This course is an introduction to quantitative and qualitative tools used in research. Topics include alternative research designs and data gathering methodologies including statistical analysis as applied to research and decision-making and the analysis of statistical relationships.

**EU 161  
RESEARCH ON EUROPE**

**3 units**

**Pre-requisite: EU 160**

In this course, each student of the European Studies program writes a research paper that synthesizes what they have learned in their undergraduate subjects, and links it with their experience in fieldwork that exposes them to an aspect of Europe in the Philippines.

**EU 171  
EUROPEAN DIPLOMATIC  
PRACTICE**

**3 units**

This course outlines the history of European diplomacy (from the time of the Ancient Greeks to the present) and the roles individual nation-states play in the governance of the European Union and their bilateral relations with states outside the Union.

**EU 172  
EXTERNAL RELATIONS OF  
THE EUROPEAN UNION**

**3 units**

**Pre-requisites: EU 22, POS 130**

This course examines the relations of the European Union with the United States, Japan, and the African, Caribbean, and Pacific blocs. Focus is on the Commission

and its role in the implementation of the commercial policy, the basis of the EU's competency in external affairs.

**EU 190  
SPECIAL TOPICS IN  
EUROPEAN CULTURE:  
EUROPE AND GLOBAL  
POPULAR CULTURE**

**3 units**

This course looks at the interfaces between global popular culture and the European region. It examines the way Europe affects and is affected by global popular culture.

**EU 191  
SPECIAL TOPICS IN  
EUROPEAN LAW**

**3 units**

**Pre-requisite: EU 22**

This course introduces students to particular areas in European Law that are of current importance and relevance, and of general interest.

**EU 191B  
SPECIAL TOPICS IN  
EUROPEAN LAW: HUMAN  
RIGHTS CONCERNS IN THE  
EUROPEAN UNION**

**3 units**

**Pre-requisite: EU 22**

This course deals with the protection of human rights in the European Union and the relationship between EC law and the European Convention on Human Rights. The context of the study is the development of general principles of Community law and the evolution of treaties.

**EU 191.1  
BASIC LEGAL CONCEPTS OF  
THE EUROPEAN UNION**

**3 units**

This course discusses the laws of the Economic Community which provide the legal underpinning to the Community's policies, programs and activities. Topics include the role and operations of the European Court of Justice in

interpreting laws and settling economic disputes between EC states and the Community.

**EU 191.2  
SPECIAL TOPICS IN  
EUROPEAN LAW:  
INTRODUCTION TO LAW,  
LEGAL PROCESSES, AND  
CONCEPTS IN THE  
EUROPEAN CONTEXT**

**3 units**

This course introduces students to basic legal concepts necessary for an understanding of how law operates within specific legal systems. It is especially designed to prepare students to distinguish between common law and civil law as it applies to the European context.

**EU 191.3  
SPECIAL TOPICS IN  
EUROPEAN LAW: EU-ASEAN  
HUMAN RIGHTS**

**3 units**

**Pre-requisite: EU 22**

The course compares the evolution and development of regional human rights mechanisms in ASEAN and the European Union. It provides a general overview of what human rights is all about, and the United Nations (UN) Human Rights Regime in relation to regional human rights mechanisms and bodies.

**EU 192  
SPECIAL TOPICS IN  
EUROPEAN ECONOMICS**

**3 units**

**Pre-requisite: EU 151**

This course is an introduction to particular areas in European economics that are of current importance, relevance, and general interest.

**EU 192.1  
SPECIAL TOPICS IN  
EUROPEAN ECONOMICS:  
EUROPE AND  
INTERNATIONAL FINANCE  
3 units**

The course is divided into two parts. The first part discusses the workings of the Foreign Exchange Market. In the second part, discussions include the criteria for the adoption of a Common Currency, its implementation and the tasks in participating in the Eurozone.

**EU 192.2  
SPECIAL TOPICS IN  
EUROPEAN ECONOMICS:  
EUROPE AND  
INTERNATIONAL ECONOMIC  
RELATIONS  
3 units**

The course focuses on European Integration in a global economy. It discusses basic concepts on international trade theory and policy and the role of international institutions in trade and finance; examines issues affecting the European Union (EU) and its economic relations; and analyzes the trade effects of emergence of the BRICs.

**EU 192.3  
SPECIAL TOPICS IN  
EUROPEAN ECONOMICS:  
COMPETITION POLICY AND  
THE EU COMPETITION LAW  
3 units**

The course focuses on the fundamentals of Competition Policy and traces the development of EU Competition Law through the EU Treaties, legislative acts and the case law of the Court of Justice. The course traces the different stages of the development and modernization of Competition Policy.

**EU 193  
SPECIAL TOPICS IN  
EUROPEAN HISTORY  
3 units**

**Pre-requisites:** HI 18.1, HI 18.2  
This course introduces the students to particular areas in European history that are of current importance and relevance, and of general interest.

**EU 194  
SPECIAL TOPICS IN  
EUROPEAN BUSINESS  
3 units**

**Pre-requisite:** EU 131  
The course introduces the students to particular areas in the European Business that are of current importance and relevance, and of general interest.

**EU 194.1  
SPECIAL TOPICS IN  
EUROPEAN BUSINESS AND  
FINANCE  
3 units**

**Pre-requisites:** EU 131, FIN 101  
This course studies the complex ways the EU affects business. This knowledge extends to the role the EMU and the *euro* play in business decisions. Through the course, students gain an understanding of the reasoning behind some of the important policy areas for business.

**EU 194.2  
SPECIAL TOPICS IN  
EUROPEAN INNOVATION  
AND ENTREPRENEURSHIP  
3 units**

This course is a study of the principles of innovation as applied to business enterprises, drawing from the insights of or the lessons learned by European entrepreneurs, scholars, and professionals. Emphasis is on good practices on innovation and entrepreneurship, as practiced by European small and medium enterprises.

**EU 195  
SPECIAL TOPICS IN  
EUROPEAN POLITICS  
3 units**

**Pre-requisite:** EU 22  
This course is an introduction to particular areas in European politics that are of current importance, relevance, and general interest.

**EU 195.1  
SPECIAL TOPICS IN  
EUROPEAN POLITICS:  
EUROPE AND  
TRANSNATIONAL CRIMES  
3 units**

**Pre-requisite:** EU 22  
This course introduces the study of organized transnational crimes and how the European Union participates in and contributes to fighting these crimes. The course examines the concepts which define these crimes and the manner by which non-state actors threaten state relations and human security.

**EU 195.2  
SPECIAL TOPICS IN  
EUROPEAN POLITICS:  
EUROPE AND  
ENVIRONMENTAL POLICY  
3 units**

**Pre-requisite:** EU 22  
This course deals with the significant environmental issues that have affected Europe. It also looks at the ways that various actors in Europe (the Commission, member state governments, and non-state actors) have contributed to the development of policies and tools that deal with the environment.

**EU 195.3  
SPECIAL TOPICS IN  
EUROPEAN POLITICS:  
HUMAN DIGNITY  
ADVOCACY IN THE EU  
3 units**

This course examines the EU's interactions with the civil society sector, specifically with NGOs.

The course focuses on three main aspects of the interaction: on the EU and its mechanisms for dealing with civil society, on the ideas behind human rights advocacy, and on the interfaces between the EU, on the one hand, and human rights advocacy on the other.

**EU 195.4  
SPECIAL TOPICS IN  
EUROPEAN POLITICS:  
GEOPOLITICS OF THE  
EUROPEAN UNION**

**3 units**

This course discusses the links between European geography, writ large, and the troika represented by population, resources, and technology. It analyzes how the physical space where the European Union (EU) is located informs its economic, security, and defense policies. It also provides an overview of the issues confronting the EU.

**EU 195.5  
SPECIAL TOPICS IN  
EUROPEAN POLITICS: EU  
AND THE RISE OF CHINA**

**3 units**

The course examines the dynamics and intricacies of EU and China relations, as China rises, in the Asia Pacific Region and globally. The course also examines the strength of EU and China relations in the midst of the mounting challenges of the 21st century.

**EU 195.6  
SPECIAL TOPICS IN  
EUROPEAN POLITICS:  
EUROPE AND US RELATIONS  
IN THE 21<sup>ST</sup> CENTURY & THE  
GLOBAL RECESSION**

**3 units**

The course examines the state of Europe and US relations and how this relationship is affected by the challenges of the 21st century. It looks at the history and dynamics of Europe and US relations.

**EU 195.7  
SPECIAL TOPICS IN  
EUROPEAN POLITICS:  
EUROPEAN SECURITY AND  
DEFENSE POLICY AFTER THE  
LISBON TREATY**

**3 units**

The course discusses the European Security and Defense Policy (ESDP) created by Lisbon Treaty. It examines the policy and instrument of the EU and its foreign policy in terms of security policy and crisis management.

**EU 196  
SPECIAL TOPICS IN  
EUROPEAN STUDIES:  
RELIGIOUS DIVERSITY:  
CONFLICT  
TRANSFORMATION AND  
RESOLUTION**

**3 units**

This course introduces the origins of the four major religions in the world; outlining and analyzing the principal tenets of each religion. Students explore the causes and consequences of religious conflict in selected parts of the world and examine possible solutions to the conflict.

**EU 198  
WTO, EU TRADE POLICY AND  
CURRENT TRADE ISSUES**

**3 units**

This course introduces world trade, an arena where the EU is a major player. Topics include the background, main problems, and issues related to international trade. Focus is on the political side of foreign trade, with additional discussion of history, trade philosophy, economics, and jurisprudence.

Room 208 Ricardo & Dr. Rosita Leong Hall  
(632) 426-6001 loc. 5240/5241  
Fax: (632) 426-6114  
history.soss@ateneo.edu

# HISTORY

**Francis A. Gealogo**  
*Chair*

**Faculty**  
***Professors***

Filomeno V. Aguilar, Jr.  
Jose S. Arcilla, S.J.

***Associate Professors***

Francis A. Gealogo  
Josefina D. Hofileña  
Ambeth R. Ocampo

***Assistant Professors***

Karl Ian U. Cheng Chua  
Jose M. Cruz, S.J.  
Olivia Anne M. Habana  
Efren B. Isorena  
David O. Lozada III  
Meynardo P. Mendoza  
Francis M. Navarro  
Jose Ma. Edito K. Tirol  
Vernon R. Totanes  
Stewart A. Young

***Instructors***

Stephanie Marie R. Coa • Patricia Irene N. Dacudao  
Mark Alexander C. Dizon • Brian Paul A. Giron  
Neville Jay C. Manaois • JPaul S. Manzanilla  
Isabel Consuelo A. Nazareno • Michael D. Pante  
Hidde T. Van Der Wall

***Lecturers***

Ma. Estela E. Banasihan • Maria Cynthia B. Barriga •  
Antonio Francisco B. de Castro, S.J. • Maria Elena F.  
Ferrer • Jason L. Gavilan • Lailani F. Gotao • Nicolo  
Paolo P. Ludovice • Leo Angelo A. Nery • Arnel M.  
Peralta • Therese Marie Z. Sunga • Ma. Felisa S. Tan  
• Patricia Ysabel E. Wong

***Visiting Scholars***

Jason L. Gavilan • Sangwoo Lim  
Marcal Sanmarti • Vicente Rafael

History is the study of what men and women have experienced in the past, and how they have understood and represented their experiences. It is the study of our collective past. Grounded on the conviction that we of this generation share an essential continuity with all human experience, History is the rigorous attempt to understand our present society against the background of the past. It looks at everything that humanity has suffered, failed, dared, and triumphed over.

Beyond helping us understand how we and our world have come to be the way we are, History is a guide to the future. By telling us how men and women in the past dealt with both ordinary and critical situations, History makes available to us a range of options as we deal with our present and with the future.

History is training in seeing ourselves and our world as entities proceeding in time and much formed by what has gone before. But, because it allows us to see how human beings have been acted upon and how they in turn have acted upon their lives and the world, History is training in seeing the future with hope.

It is the goal of the department to undertake activities in teaching, research, and extension work that are designed to develop expertise in Philippine history as a primary area, and Western and Asian history as secondary areas.

## BACHELOR OF ARTS, MAJOR IN HISTORY

History is the study of the continuity we share with all human experience, past and present. It also makes available to us a range of options as we deal with our present and with the future. Our students learn not only to understand our present society against the background of the past, but also to analyze how this understanding is itself shaped by changing contexts.

Graduates of AB History can enter the fields of education, research, journalism, heritage conservation, tourism, and politics. A comprehensive grasp of history is also a natural first step for students wishing to enter law school or apply for the Foreign Service.

### FIRST YEAR

		FIRST YEAR			
<u>First Semester</u>		<u>Units</u>	<u>Second Semester</u>	<u>Units</u>	
EN 11	Communication in English I	3	EN 12	Communication in English II	3
LIT 13	Introduction to Fiction	3	LIT 14	Introduction to Poetry and Drama	3
MA 11	Modern Mathematics I	3	MA 12	Modern Mathematics II	3
FIL 11	Sining ng Pakikipagtalastasan sa Filipino I	3	FIL 12	Sining ng Pakikipagtalastasan sa Filipino II	3
NATSCI 1A	Natural Science, Lecture	3	NATSCI 2A	Natural Science, Lecture	3
NATSCI 1B	Natural Science, Laboratory	1	NATSCI 2B	Natural Science, Laboratory	1
PE 1	Physical Education	(2)	PE 2	Physical Education	(2)
INTAC 1	Introduction to Ateneo Culture and Traditions	(0)	INTAC 2	Introduction to Ateneo Culture and Traditions	(0)
		<i>Total: 16</i>			<i>Total: 16</i>

### SECOND YEAR

SECOND YEAR					
<u>First Semester</u>		<u>Units</u>	<u>Second Semester</u>		<u>Units</u>
FIL 14	Panitikan ng Pilipinas	3	PSY 101	General Psychology	3
TH 121	An Introduction to Doing a Catholic Theology	3	HI 16.2	Asian History since 1500	3
SCI 10	Science and Society	3	HI 18.2	Western History: From Modern Times	
HI 16.1	Asian History to 1500	3		to World War II	3
HI 18.1	Western History: From Early Times		SA 21	Introduction to Sociology and Anthropology	3
	to the Early Modern Period	3	FLC	Foreign Language and Culture	3
PE 3	Physical Education	(2)	PE 4	Physical Education	(2)
NSTP 1	National Service Training Program	(3)	NSTP 2	National Service Training Program	(3)
		<i>Total:</i> 15			<i>Total:</i> 15

### THIRD YEAR

THIRD YEAR					
<u>First Semester</u>		<u>Units</u>	<u>Second Semester</u>		<u>Units</u>
PH 101	Philosophy of the Human Person I	3	PH 102	Philosophy of the Human Person II	3
TH 131	Marriage, Family Life and Human Sexuality in a Catholic Perspective	3	HI 166	Philippine History	3
HI 165	Rizal and the Emergence of the Philippine Nation	3	EC 102	Basic Economics, Agrarian Reform and Taxation	3
HI 191	Historical Methodology	3	HI 192	Philosophy of History	3
ELECTIVE (Cognate)*		3	HI ELECTIVE		3
FREE ELECTIVE		3	ELECTIVE (Cognate)*		3
		<i>Total: 18</i>			<i>Total: 18</i>

### FOURTH YEAR

<u>First Semester</u>		<u>Units</u>	<u>Second Semester</u>		<u>Units</u>
PH 103/	Philosophy of Religion/		PH 103/	Philosophy of Religion /	
PH 104	Foundations of Moral Value	3	PH 104	Foundations of Moral Value	3
TH 141/	A Theology of the Catholic Social Vision/		TH 141/	A Theology of the Catholic Social Vision/	
TH 151	The Catholic Commitment of		TH 151	The Catholic Commitment of	
	Today's Filipino: A Synthesis	3		Today's Filipino: A Synthesis	3
POS 100	Politics and Governance	3	HI 199	Senior Essay	3
HI ELECTIVE		3	HI ELECTIVE		3
HI ELECTIVE		3	FREE ELECTIVE		3
		<i>Total: 15</i>			<i>Total: 15</i>

Total Number of Academic Units: 128

Curriculum Effective Freshman Batch SY 2002-2003

\* Any 3-unit subject in any correlated discipline from the Social Sciences or the Humanities (e.g. Political Science, Economics, Sociology-Anthropology, Literature, Philosophy, etc.) as may be approved by the Department Chairperson



## MINOR IN HISTORY

The Minor in History program is designed for students who wish to immerse themselves in the discipline as a complementary field to their primary concentration. As present-day realities trace themselves to the past, the study of History proves indispensable to a variety of fields, such as political science, business, and economics. The program equips students with tools and skills for historical research and analysis, enabling them to see present-day structures, processes and situations as products of both change and continuity over time.

The Minor in History is open to any Loyola Schools undergraduate student except those pursuing the AB History program. To be admitted into the program, the candidate must be at least a sophomore and must meet the required yearly QPI for his/her year level. Graduating seniors who wish to be admitted into the program must apply in the first semester of their senior year.

The Minor in History is awarded to graduating seniors who have completed a total of twenty-one (21) units with a grade of at least C in the following subjects:

HI 16	Asian History		3 units
HI 18	Western History		3 units
HI 165	Rizal and the Emergence of the Philippine Nation		3 units
HI 166	Philippine History		3 units
HI 19	Historical Methodology	OR	3 units
HI 192	Philosophy of History		3 units
Two History Electives			6 units

## COURSE OFFERINGS

### **HI 10 ASIAN CIVILIZATION 3 units**

This course is a survey of the civilizations of East Asia, South Asia, and Southeast Asia. Topics include the geographical and socio-historical settings of these civilizations, Western encroachments, and Asian responses. Focus is on the formation of traditional cultures and their transformation in modern times.

### **HI 12 WESTERN CIVILIZATION 3 units**

This course surveys European development from its Greco-

Roman origins to the present; the Christian culture in the West in the 12<sup>th</sup> and 13<sup>th</sup> centuries and transition into the Reformation; the Industrial Revolution; the 20<sup>th</sup> century's global wars; and the end of the Cold War.

### **HI 13 HISTORY OF ISLAM 3 units**

The course is a preliminary survey on the primary concepts and principles that define the Islamic faith. It examines the historical concept of the development of the Islamic world and considers the progression of Islam into distinct branches of orthodoxy.

### **HI 14 MEDIEVAL CIVILIZATION 3 units**

This course is a survey of the advancement of human culture in the first fifteen centuries after the appearance of Christianity. Contemporary cultural, economic, and political movements around the world are analyzed.

### **HI 15 THE MODERN WORLD 3 units**

This course is a survey of the historical advancement of mankind from the end of the 16<sup>th</sup> century to the present, including modern developments such as the expansion of Europe, colonialism,



and the prelude to the two World Wars.

**HI 16**  
**ASIAN HISTORY**  
**3 units**

This course is a survey of the history of Asian civilizations from ancient times to modernity. The course covers the development of traditional Asian societies and cultures, until the developments from the two World Wars to the modern period.

**HI 16.1**  
**ASIAN HISTORY TO 1500**  
**3 units**

This course surveys the civilizations of East Asia, South Asia, and Southeast Asia from ancient times until 1500. Focus is on the development of the traditional societies and cultures of these regions and the rise of various kingdoms up to the eve of Western colonization.

**HI 16.2**  
**ASIAN HISTORY**  
**SINCE 1500**  
**3 units**

This course is a survey of major developments in Asia since the arrival of the Europeans. Emphasis is on the changes in Asian civilizations resulting from European technology, political ideas, and economic relations. Discussions may center on a particular geographical area, time period, or theme.

**HI 16.3**  
**EAST ASIA**  
**3 units**

This course is a survey of the histories of China, Japan, and Korea from ancient times up to the modern period.

**HI 16.4**  
**SOUTH ASIA**  
**3 units**

This course is a survey of the histories of the countries of South

Asia from ancient times up to the modern period. Focus is on India and Pakistan with some discussions on Bangladesh, Sri Lanka, Nepal, and Bhutan.

**HI 16.5**  
**SOUTHEAST ASIA**  
**3 units**

This course is a survey of the countries of Mainland and Island Southeast Asia, comprising Myanmar, Thailand, Laos, Cambodia, Vietnam, the Philippines, Indonesia, Malaysia, and Brunei, from ancient times up to the modern period.

**HI 16.6**  
**CHINA**  
**3 units**

This course is a survey of the history of China from ancient times up to the modern period. Topics include traditional China, the coming of the Western world, the establishment of Western hegemony, the Chinese revolutions, and the establishment of the People's Republic of China.

**HI 16.7**  
**JAPAN**  
**3 units**

This course surveys Japan's history from ancient times up to the modern period. Topics include the establishment of clan units in the archipelago, the imperial system, the shogunate, the modernization program, Japan's role in World War II, and the archipelago in the post-war period.

**HI 16.8**  
**KOREA**  
**3 units**

This course is a survey of the history of the Korean peninsula from its early beginnings to the modern period. Topics include the establishment of the Three Kingdoms, Chinese and Japanese hegemony in the peninsula, the

creation of North and South Korea, and current developments.

**HI 16.9**  
**INDIA AND PAKISTAN**  
**3 units**

This course is a survey of the history of the South Asian subcontinent focusing on India and Pakistan. Topics include the establishment of Indus valley civilizations, Aryan migration, the development of the subcontinent's religious traditions, its partition into Pakistan and India, and the current developments.

**HI 16.10**  
**MAINLAND SOUTHEAST ASIA**  
**3 units**

This course surveys the histories of Mainland Southeast Asian countries, namely Myanmar, Thailand, Laos, Cambodia, and Vietnam, from their early beginnings until the modern period. Topics include the establishment of the Southeast Asian classical states, Western colonization, nationalism, independence, and socio-political upheavals in the region.

**HI 16.11**  
**ISLAND SOUTHEAST ASIA**  
**3 units**

This course is a general survey of the histories of Island Southeast Asian countries, i.e., the Philippines, Indonesia, Malaysia, and Brunei from their early beginnings up to the modern period.

**HI 18**  
**WESTERN HISTORY**  
**3 units**

This course is a study of the history of the West. The course covers ancient Greece and Rome until the end of World War II to the modern period. Although a survey course, it may focus on a

particular geographical area, time period, or theme.

**HI 18.1**  
**WESTERN HISTORY:**  
**FROM EARLY TIMES TO THE**  
**EARLY MODERN PERIOD**  
**3 units**

This course is a survey of Western history from ancient Greece and Rome up to the Early Modern period.

**HI 18.2**  
**WESTERN HISTORY:**  
**FROM MODERN TIMES TO**  
**WORLD WAR II**  
**3 units**

This course is a survey of Western history from the Modern Period up to the end of World War II.

**HI 18.3**  
**ANCIENT GREECE AND**  
**ROME**  
**3 units**

This course discusses the civilizations of ancient Greece and Rome. Topics on ancient Greece may include the Bronze Age, Minoan-Mycenaean civilization, Hellenic civilization and the Classical Age to Alexander the Great, and the Hellenistic World. Topics on ancient Rome focus on the Republic, the Empire, and the Roman Army.

**HI 18.4**  
**MEDIEVAL CIVILIZATION**  
**3 units**

This is a survey of European history during the Early Middle Ages (300-900 AD) and High Middle Ages (900-1300 AD). Topics include the interaction of the major forces forming Western European civilization: the classical tradition, Christian religion, Germanic society, and the rise of the Carolingian empire.

**HI 18.5**  
**EARLY MODERN EUROPE**  
**3 units**

This course is a study of Europe in the post-Medieval period, from the Renaissance and the Reformation until the Industrial Revolution and the spread of liberalism, socialism, and nationalism.

**HI 18.6**  
**MODERN EUROPE**  
**3 units**

This course is a study of the forces that shaped modern European history. Topics include the industrial revolution, the unification of Germany and Italy, the new imperialism, the two World Wars, and the challenge of totalitarian ideologies.

**HI 50**  
**ANCIENT HISTORY**  
**3 units**

This is an introductory course on the foundations of society. Topics include the Greek ideals of democracy and human freedom, the Roman care for law and order, and the Christian idea of human dignity and equality.

**HI 51**  
**EUROPE: 500-1500**  
**3 units**

This course is a study of the origins and developments of monasticism and feudalism, the manor and the town, and papacy and the empire.

**HI 52**  
**EUROPE: 1500-1815**  
**3 units**

This course is a study of the making of modern Europe from the Renaissance to the Napoleonic Empire. Topics include the origins and development of the sovereign Dynastic System, the Peace of Westphalia, the rise of the Eastern Monarchies, Enlightened Despotism, and the French Revolution.

**HI 53**  
**EUROPE: THE NINETEENTH**  
**CENTURY**  
**3 units**

This course studies 19<sup>th</sup> century Europe as the seed-time for development in the present era. Topics include the historical evolution of international and domestic policies and the impact of liberalism, nationalism, democracy, and industrialism on European civilization and her relations with the non-western world.

**HI 54**  
**EUROPE: THE TWENTIETH**  
**CENTURY**  
**3 units**

This course is a study of the political collapse of Europe from the First to the Second World Wars. Topics include the challenge of totalitarianism, the revolt against Europe, the Cold War, and the collapse of communism.

**HI 54.1**  
**EUROPE: THE TWENTIETH**  
**CENTURY: 20<sup>TH</sup> CENTURY**  
**GENOCIDE**  
**3 units**

This course explores the historical roots of 20<sup>th</sup> century genocide, focusing on genocidal practices in Europe and former European colonies in Asia and Africa. The course proper covers the Armenian Genocide, the Jewish Holocaust, and the ethnic cleansing in the former Yugoslavia.

**HI 55**  
**THE SECOND WORLD WAR IN**  
**EUROPE**  
**3 units**

This course studies the military history of the Second World War in Europe from 1939 to 1945, including Africa and the Middle East. Topics include the September 1939 invasion of Poland, the various campaigns up

to the defeat of Germany in May 1945.

**HI 56**  
**DEVELOPMENT OF**  
**SOCIALISM IN THE WEST**  
**3 units**

This course studies the Industrial Revolution and the social problem in Europe. Topics include utopian socialism, the predecessors of Marx, the *Communist Manifesto* and *Das Kapital*, Marx and Engels, Revisionist International, Marxist-Leninism, and Stalin vs. Trotsky. Emphasis is on the ideological development of socialist theory.

**HI 57**  
**THE COLD WAR, 1946-1991**  
**3 units**

This course studies the history of the Cold war from 1945-1991. It begins with the end of the Second World War and concludes with the collapse of the Soviet Union.

**HI 59**  
**SPECIAL TOPICS IN**  
**EUROPEAN HISTORY**  
**3 units**

This course is a study of selected, advanced topics in European history based on current relevance, student interest, and faculty availability.

**HI 59.3**  
**SPECIAL TOPICS IN**  
**EUROPEAN HISTORY:**  
**GERMAN CULTURE - XV-XXI**  
**CENTURIES**  
**3 units**

This course is a survey of German culture from the 15<sup>th</sup> to the 21<sup>st</sup> centuries. Developments are examined through the multiple influences of history, art, literature, music, film, and food.

**HI 59.4**  
**SPECIAL TOPICS IN**  
**EUROPEAN HISTORY: THE**  
**MEDIEVAL CITY: HISTORY,**  
**POLITICAL PHILOSOPHY,**  
**AND AESTHETICS**  
**3 units**

This course introduces the history, philosophy, art, politics, and aesthetics of major medieval European cities. Emphasis is on the forms of government and culture of the medieval cities and towns. The course compares actual political practices with ideas from famous texts on medieval philosophy.

**HI 60**  
**HISTORY OF RUSSIA**  
**TO 1700**  
**3 units**

This course studies the formation, rise, and decline of Kievan Russia. Topics include the Byzantine elements in Russian culture, the appanage system and the rise of Muscovy, the Third Rome Theory, and beginnings of involvement in European affairs, the First Romanovs, and the Reforms of Nikon and the Great Schism.

**HI 61**  
**HISTORY OF RUSSIA**  
**FROM 1700**  
**3 units**

This course is a study of Peter the Great and the Westernization of Russia. The course covers the transitional period of palace revolutions until the rise and fall of the Soviet empire, and the history of the Russian Republic until the present.

**HI 63**  
**ENGLAND IN THE**  
**EARLY MIDDLE AGES**  
**3 units**

This course studies English history from the coming of the Angles, Saxons, and Jutes in the 5<sup>th</sup> century to the Norman settlement in the 11<sup>th</sup> century. It traces the development of early

Germanic society until the conditions that led to the Norman invasion in 1066.

**HI 64**  
**MEDIEVAL ENGLAND**  
**1100-1500**  
**3 units**

This course is a survey of English history from the Norman Conquest to the rise of the Tudors in the late 15<sup>th</sup> century. It covers the development of the feudal system until the growth in power of and gradual disillusionment with the Roman Catholic Church.

**HI 73**  
**HISTORY OF SPAIN**  
**3 units**

This course is an overview of Spanish history, from prehistoric times to the death of Franco in 1975, focusing on the formation of the Spanish nation and its struggle to remain intact as a nation.

**HI 90**  
**NATIVE AMERICAN INDIANS**  
**OF NORTH AMERICA**  
**3 units**

This course is a study of the history and culture of the American Indian nations of North America.

**HI 91**  
**THE UNITED STATES TO THE**  
**CIVIL WAR**  
**3 units**

This course is a survey of the economic, political, social, and cultural development of the Thirteen Colonies, including the causes, course, and consequences of the Revolution, and the early history of the Republic.

**HI 92**  
**THE UNITED STATES SINCE**  
**THE CIVIL WAR**  
**3 units**

This course studies the Civil War and its origins and effects. Topics include industrialization and its

consequences in American society, the rise of the United States as a world power and major influence in international affairs, and the United States' role in the Cold War.

**HI 93**  
**THE UNITED STATES IN THE TWENTIETH CENTURY**

**3 units**

This course is an examination of the United States as a world power, its role in World War I, the Great Depression, and the New Deal.

**HI 94**  
**THE UNITED STATES IN THE PACIFIC**

**3 units**

This course is a discussion of the economic, political, and strategic goals that the United States pursued in the Pacific and the policies it adopted to realize them against the background of the American domestic scene and Great Power politics in the Far East.

**HI 95**  
**THE UNITED STATES SINCE WORLD WAR II**

**3 units**

This course is a study of the development of civil rights, the development of suburbia, and the realignment of political groups.

**HI 98**  
**HISTORY OF THE UNITED STATES**

**3 units**

The course surveys the history of the United States from its earliest beginnings among the American Indian nations to the founding of the original 13 colonies by European settlers during the 17th and 18th century.

**HI 99**  
**SPECIAL TOPICS IN NORTH AMERICAN HISTORY**

**3 units**

This course is a study of advanced topics in North American history based on current relevance, student interest, and faculty availability.

**HI 100**  
**ANCIENT CIVILIZATIONS OF LATIN AMERICA**

**3 units**

This course is a study of the pre-colonial civilizations of Latin America such as the Maya, Aztec, Olmec, Toltec, and Inca.

**HI 101**  
**COLONIAL LATIN AMERICA**

**3 units**

This course is a survey of the Spanish and Portuguese colonial empires in Latin America from their foundation to the eve of the wars for independence.

**HI 102**  
**REVOLUTIONS IN LATIN AMERICA**

**3 units**

This course is a survey of the major social revolutions in Latin America in the 19<sup>th</sup> and 20<sup>th</sup> centuries.

**HI 103**  
**MODERN HISTORY OF LATIN AMERICA**

**3 units**

This course is a study of the Latin American states from the wars of independence to the present. The political, economic, and social institutions are examined focusing on the patterns of Latin American government.

**HI 109**  
**SPECIAL TOPICS IN LATIN AMERICAN HISTORY**

**3 units**

This course is a study of advanced topics in Latin American history based on current relevance, student interest, and faculty availability.

**HI 122**  
**IMPERIALISM IN ASIA**

**3 units**

This course is a survey of European overseas expansion and the creation of empires during the 19<sup>th</sup> and 20<sup>th</sup> centuries. Topics include the causes, nature, and methods of imperialism and the response of Asian countries to Western ideas.

**HI 123**  
**NATIONALIST MOVEMENTS IN ASIA**

**3 units**

This is a comparative study of the response of nationalists of major Asian countries to the inroads of Western culture and the struggle for independence. The life, thought, and writings of leading moderate and radical Indian, Chinese, and Japanese intellectuals and reformers are discussed.

**HI 134**  
**SPECIAL TOPICS IN SOUTH ASIAN HISTORY**

**3 units**

This course is a study of advanced topics in South Asian history based on current relevance, student interest, and faculty availability.

**HI 135**  
**INTRODUCTION TO EAST ASIAN CIVILIZATION: CHINA**

**3 units**

This course is an interdisciplinary approach to a survey of the history of East Asia with emphasis on China: the formation of its traditional culture and its transformation in modern times.

**HI 136**  
**INTRODUCTION TO EAST ASIAN CIVILIZATION: JAPAN**

**3 units**

This course is an interdisciplinary approach to a survey of the history of East Asia with emphasis on Japan: the formation

of its traditional culture and its transformation in modern times.

**HI 137**  
**EAST ASIA AND THE**  
**WESTERN INTRUSION**  
**3 units**

This course is a study of the various responses of China and Japan to the pressures of Western expansionism in the 19<sup>th</sup> century.

**HI 138**  
**MODERN CHINA**  
**3 units**

This course is a study of modern Chinese history from the late Ch'ing period to the establishment of the modern Communist regime. The course covers the impact of the Modern West and the Chinese response; until the Communist conquest of the mainland.

**HI 139**  
**CHINESE COMMUNISM**  
**3 units**

This course is a study of the Chinese response to the West. The course covers the origins and organization of the Chinese Communist Party; until the events leading to the establishment of the People's Republic; and the history of the Republic to the present.

**HI 140**  
**MODERNIZATION OF JAPAN**  
**3 units**

This course is a historical analysis of the modernization and economic development of Japan during the Tokugawa and Meiji periods; the history of the modernization of Japan; democracy, nationalism and militarism; and post-war recovery and reorientation.

**HI 141**  
**MODERN EAST ASIA**  
**3 units**

The course serves as a general survey of major historical developments in East Asia,

specifically China, Japan, and Korea, from the 16th century.

**HI 149**  
**SPECIAL TOPICS IN EAST**  
**ASIAN HISTORY**  
**3 units**

This course is a study of advanced topics in East Asian history based on current relevance, student interest, and faculty availability.

**HI 150**  
**INTRODUCTION TO**  
**SOUTHEAST ASIAN**  
**CIVILIZATION**  
**3 units**

This is an interdisciplinary course on the history of Southeast Asia with emphasis on Southeast Asia: the formulation of their traditional cultures and the transformation in modern times.

**HI 151**  
**HISTORY OF**  
**SOUTHEAST ASIA**  
**3 units**

This course is a survey of the peoples and cultures of mainland and island Southeast Asia before Western colonization, their development under Western colonial rule, the genesis of Southeast Asian nationalism, the Japanese occupation, and contemporary Southeast Asia.

**HI 151.1**  
**HISTORY OF SOUTHEAST**  
**ASIA: CONSTRUCTING**  
**NATIONHOOD IN SEA**  
**3 units**

This course is a study of the emergence of a modern sense of identity from its genesis in the early modern period until the purposeful construction of modern cultures in the late twentieth century.

**HI 164**  
**SPECIAL TOPICS IN**  
**SOUTHEAST ASIAN HISTORY**  
**3 units**

This course is a study of advanced topics in Southeast Asian history based on current relevance, student interest, and faculty availability.

**HI 164.1**  
**SPECIAL TOPICS IN**  
**SOUTHEAST ASIAN HISTORY:**  
**HISTORY AND**  
**ENVIRONMENTAL PRACTICE**  
**IN SOUTHEAST ASIA**  
**3 units**

This course attempts to construct a more environment-centered approach to the history of Southeast Asia by exploring the interrelationship between society, its intellectual and material development, and the physical environment. The multi-disciplinary emphasis draws on concepts and models from anthropology, ecology, and political science.

**HI 164.2**  
**SPECIAL TOPICS IN**  
**SOUTHEAST ASIAN HISTORY:**  
**SOUTHEAST ASIA AND**  
**EUROPE-COLONIAL**  
**ENCOUNTERS**  
**3 units**

This course examines issues related to the history of colonial encounters between Southeast Asians and Europeans from the 16<sup>th</sup> century to the 19<sup>th</sup> century. Focus is on the cultures and political systems of the region's indigenous societies and the impact of interactions with European powers.

**HI 164.3**  
**SPECIAL TOPICS IN**  
**SOUTHEAST ASIAN HISTORY:**  
**MEMORY/IES, IDENTITY/IES,**  
**AND TRAGEDY/IES IN**  
**CONTEMPORARY**  
**SOUTHEAST ASIAN HISTORY**  
**3 units**

This is a course on the contemporary history of Southeast Asia with emphasis on the transition from direct colonial



occupation to the formation of independent nation states since the end of the Japanese occupation.

**HI 165  
RIZAL AND THE  
EMERGENCE OF THE  
PHILIPPINE NATION**

**3 units**

**Pre-requisites: HI 16 or HI 18**

This course is a study of the background of the formation of the Philippine nation amidst the emergence of a colonial society. Focus is on the rise of Philippine nationalism in the 19<sup>th</sup> century and the particular contribution of Jose Rizal to the nationalist movement.

**HI 166  
PHILIPPINE HISTORY**

**3 units**

**Pre-requisite: HI 165**

This course is a study of the challenges that the Philippines faced in establishing an independent democratic republic. Topics include the forging of a national identity and government, the experience of American colonial rule, the Japanese occupation, and the struggles of the young republic.

**HI 167  
THE PHILIPPINES TO 1800**

**3 units**

This course is a study of the history of the Philippines up to the British Occupation. Topics include Philippine society at the coming of the Spaniards, the Spanish conquest and the development of colonial institutions, Church-State relations, and the Bourbon reforms.

**HI 168  
THE PHILIPPINES SINCE 1800**

**3 units**

This course studies socio-economic changes in 19<sup>th</sup> century Philippines. Topics include the

Katipunan and the Philippine Revolution, the development of American policy towards the Philippines, the Commonwealth, the Japanese occupation and the resistance movement, and the subsequent establishment and development of the Republic.

**HI 169  
RECENT PHILIPPINE HISTORY**

**3 units**

This course is a survey of Philippine history from the Philippine Revolution in 1896 to the emergence of the independent Philippine Republic in 1946. The course covers the problems faced by the nation during the Philippine Revolution, until the early years of the Republic.

**HI 170  
OVERVIEW OF PHILIPPINE  
HISTORY FROM PRIMARY  
SOURCES**

**3 units**

This course is a broad survey of Philippine political, social, economic, and cultural history through the use of primary sources.

**HI 171  
THE PHILIPPINES TO THE  
16TH CENTURY**

**3 units**

The course explores the social, economic, political and cultural developments of the communities found in the Philippine archipelago prior to the arrival of the Spaniards in the 16<sup>th</sup> century.

**HI 180  
PHILIPPINE NATIONALISM**

**3 units**

This course is a study of the pre-conditions for the emergence of a Filipino national consciousness in the latter part of the Spanish colonial period and the evolution of a nationalistic ideology from the propaganda movement for colonial reforms until the present.

**HI 181  
ROMAN CATHOLIC CHURCH  
IN THE PHILIPPINES**

**3 units**

This course studies the religious basis of Spanish colonization. Topics include the evangelization of the Philippines, the jurisdictional conflicts of the 17<sup>th</sup> century and their effect on the development of a Filipino clergy, the Church and the Revolution, and the Filipinization of the Church.

**HI 182  
ECONOMIC HISTORY OF THE  
PHILIPPINES**

**3 units**

This course is a survey of the development of the Philippine economy. Topics include pre-Hispanic economic structures, the galleon trade, introduction of the hacienda system, 18<sup>th</sup> century economic reforms, the tobacco monopoly, the introduction of free trade under the Americans, and postwar industrialization.

**HI 183  
HISTORY OF THE AGRARIAN  
PROBLEM IN THE  
PHILIPPINES**

**3 units**

This course traces the history of the agrarian problem in the Philippines from the pre-Hispanic patterns of land tenure until the Hukbalahap movement and agrarian reform since independence.

**HI 184  
PHILIPPINE SOCIAL  
MOVEMENTS DURING THE  
AMERICAN COLONIAL  
PERIOD**

**3 units**

This course is a survey of the social movements that thrived during the first half of the 20<sup>th</sup> century. Topics include labor and peasant movements, socialism, communism, and fascism, and the socio-economic and political

conditions that account for the rise of these movements.

**HI 185**  
**CULTURAL HISTORY OF THE PHILIPPINES**

**3 units**

This course is a study of the religion, culture, and intellectual development of the Filipino people. Emphasis is on the effect of religion, schools, and art, among others, on the formation of the Philippine nation.

**HI 186**  
**PHILIPPINE LOCAL HISTORY**

**3 units**

This course introduces students to the particular methods of research and source materials for the study of Philippine Local History. The course may focus on a specific community, locality or region. Sources to be studied include maps, parish records, census data, printed local histories, and oral testimonies.

**HI 187**  
**PHILIPPINE ETHNIC HISTORIES**

**3 units**

The course is a study of various indigenous and cultural communities that are deemed part of the Filipino nation. Special attention is given to communities that have often been marginalized among the mainstream Christian communities.

**HI 188**  
**PHILIPPINE HISTORICAL GEOGRAPHY**

**3 units**

The course surveys the changing pattern of human activity on the Philippine physical environment. It examines how Filipinos constructed the world in which they lived and it presents the Philippine landscape as material manifestation of the historical mind that created it and endowed it with meaning.

**HI 189**  
**SPECIAL TOPICS IN PHILIPPINE HISTORY**

**3 units**

This course is a study of advanced topics in Philippine history based on current relevance, student interest, and faculty availability.

**HI 189.1**  
**SPECIAL TOPICS IN PHILIPPINE HISTORY: THE JAPANESE OCCUPATION PERIOD IN THE PHILIPPINES: 1942-1945 AND BEYOND**

**3 units**

**Pre-requisite: HI 166**

This course is a study of the period of Japanese occupation of the Philippines in 1942-1945, including the periods immediately before and after – the 1930s and 1946-1950. The course compares the Philippine situation with similar situations in other Southeast Asian countries.

**HI 189.2**  
**SPECIAL TOPICS IN PHILIPPINE HISTORY: THE PHILIPPINE REVOLUTION: 1896-1902**

**3 units**

**Pre-requisite: HI 166**

This course is a detailed study of the primary and secondary sources on the Philippine revolution against Spain and the Philippine-American War.

**HI 189.3**  
**SPECIAL TOPICS IN PHILIPPINE HISTORY: AMERICAN COLONIAL PERIOD**

**3 units**

This course is a critical survey of the primary and secondary source materials on Philippine history during the American Period, from 1898-1946. The course explores the historiographical methods that can be used in preparing such studies.

**HI 189.4**  
**SPECIAL TOPICS IN PHILIPPINE HISTORY: PHILIPPINE FOREIGN POLICY**

**3 units**

This course analyzes Philippine Foreign Policy goals and processes. Focus is on domestic and international drivers of foreign policy. Foreign policy changes are noted from the standpoint of different presidencies as well as the evolving relationships between the Philippines and its historical and emerging partners.

**HI 189.5**  
**SPECIAL TOPICS IN PHILIPPINE HISTORY: THE JAPANESE OCCUPATION OF THE PHILIPPINES**

**3 units**

This course studies the Japanese invasion and occupation of the Philippines; the impact of the occupation years on the socio-political, economic, and cultural life of the Filipino; and the similarities in the behavior of the Japanese Army in the occupied countries in Southeast Asia.

**HI 189.6**  
**SPECIAL TOPICS IN PHILIPPINE HISTORY: PHILIPPINE SOCIAL HISTORY**

**3 units**

This is a seminar course on the various topics of Philippine social history with emphasis on the socio-economic, socio-cultural, religious, ethnographic, and demographic transformations experienced by the country. Topics like nationalist and social movements, gender, and ethnic and religious movements are integrated in class discussions.

**HI 189.7**  
**SPECIAL TOPICS IN PHILIPPINE HISTORY: THE ETHNIC CHINESE IN PHILIPPINE LIFE**

**3 units**



This course explores the role of Chinese Filipinos in Philippine life. Topics include the history of Chinese immigration; their role in the Spanish colonial economy and the Philippine revolution, and the period of American occupation; and their influence in education, religion, arts, and business.

**HI 189.8**  
**SPECIAL TOPICS IN**  
**PHILIPPINE HISTORY: A**  
**SURVEY OF PHILIPPINE ARTS**  
**3 units**

This course is a survey of Philippine visual arts from the 19<sup>th</sup> century to the post-war era. The course discusses the anonymous artists of the colonial Spanish period until the mixed media/installation artists from the 1960's to the present.

**HI 189.9**  
**SPECIAL TOPICS IN**  
**PHILIPPINE HISTORY:**  
**THE JESUITS IN THE**  
**PHILIPPINES**  
**3 units**

This course examines the history of the Society of Jesus in the Philippines, with a particular focus on the return of the Jesuits in 1859 until the early years of the establishment off the Philippine province in the 1960s.

**HI 189.10**  
**SPECIAL TOPICS IN**  
**PHILIPPINE HISTORY: THE**  
**70'S STATE, ECONOMY AND**  
**SOCIETY IN TIME OF**  
**CONFLICT AND CHANGES**  
**3 units**

The course is an examination of the Martial law decade with focus on themes such as state, political economy and social movements. It aims to provide students with varied perspectives that will help them assess the events during that period.

**HI 190**  
**INTRODUCTION TO**  
**HISTORICAL STUDIES**  
**3 units**

The course provides an overview regarding the development and practice of the discipline of history. It looks into history's role in society, the motivations and context involved in its production, the tasks and activities related to its practice, as well as its relevance.

**HI 191**  
**HISTORICAL**  
**METHODOLOGY**  
**3 units**

This course is an introduction to the methods of historical research, interpretation of sources, writing of history, and critical assessment of historical works.

**HI 192**  
**PHILOSOPHY OF HISTORY**  
**3 units**

This course is an analysis of basic concepts employed in historical interpretation, their implications in relation to philosophy and theology, and a study of the major philosophers of history including Plato, St. Augustine, Hegel, Marx, Spengler, and Toynbee.

**HI 198**  
**SPECIAL TOPICS IN HISTORY**  
**3 units**

This course is an intensive study of selected topics that combine or are beyond conventional subject fields. Specific readings and topics are announced by the instructor.

**HI 198.1**  
**SPECIAL TOPICS IN HISTORY:**  
**SOCIAL MEMORY AND THE**  
**SECOND WORLD WAR IN THE**  
**ASIA-PACIFIC**  
**3 units**

The course begins as a survey of the different aspects of the conflict. The second part of the course discusses the changing

legacy of the war and the way it is perceived by different nations in the region.

**HI 198.5**  
**SPECIAL TOPICS IN HISTORY:**  
**THE AGE OF EMPIRE**  
**3 units**

This course examines the development of warfare from the earliest civilizations in the Nile and the Fertile Crescent up to the Hundred Years War in Europe. Topics include biographical sketches of ancient and medieval warfare's most renowned practitioners and an analysis of tactics and strategy.

**HI 198.6**  
**SPECIAL TOPICS IN HISTORY:**  
**FILIPINO MIGRANTS AND**  
**GLOBAL HISTORY**  
**3 units**

This course deals with Philippine transborder migrations, specifically from the 19th century to the present, in the context of global history. It offers an overview of issues in global history and relates these to theories of migration. Whenever possible, the course uses a comparative approach.

**HI 198.7**  
**SPECIAL TOPICS IN HISTORY:**  
**HISTORY AND HERITAGE**  
**INTERPRETATION**  
**3 units**

This course is an introduction to the relationship between history and the conservation of the built environment, focusing on three themes: History and Heritage, Historical Development and the Transformation of Landscapes, and the Interpretation of History.

**HI 199.1**  
**PRACTICUM**  
**3 units**

**Pre-requisite: HI 191**

This course deepens the student's understanding and application of the research skills needed to

gather pertinent primary and secondary sources on a historical problem or issue, make a critical review of these source materials, and experience the practical application of historical studies.

**HI 199.2**

**SENIOR THESIS**

**3 units**

**Pre-requisite: HI 199.1**

As the culmination of the Bachelor of Arts, major in History program, the student submits and defends a major historical thesis based on the student's research proposal.

Room 209 Ricardo & Dr. Rosita Leong Hall  
(632) 426-6001 loc. 5248  
fax: (632) 426-6001 loc. 5249  
japanese.soss@ateneo.edu

# JAPANESE STUDIES

**Karl Ian U. Cheng Chua**  
*Director*

**Faculty**  
***Assistant Professors***  
Karl Ian U. Cheng Chua  
Hiroko Nagai

***Instructor***  
Rodolfo Felix Guillermo R. Narciso

***Lecturers***  
Roelia V. Alvarez  
Zachary T. Chung  
Junilo S. Espiritu  
Marie Danielle V. Guillen  
Carlos Luis L. Santos  
Michael B. Syson

Established in 1966, the Japanese Studies Program was the first Japanese Studies Program in the Philippines, and the first among the International Studies programs of the Ateneo. It is the University's response to the changes in the region and the articulation of Japan-Philippine relations in those changes, this response being seen in its offering of a bi-national course of study that promotes primarily mutual understanding of Philippine and Japanese cultures.

The Program offers a Minor in Japanese Studies for the undergraduate level. Its language and Japan-related course offerings are open to all degree and non-degree students from different disciplines, in line with its aim of developing students who have a global outlook and a keen understanding and appreciation of their culture and other cultures with which it interfaces. This makes graduates highly competitive, uniquely advantaged, and relevant in work areas of diplomacy, trade and management, research and development, economics, and politics.

## MINOR IN JAPANESE STUDIES

The Minor Program in Japanese Studies aims to develop graduates who have a global outlook, imbued with a keen understanding and appreciation of their own culture and of others, especially those with which their culture interfaces. Students who go through the courses of the Minor Program in Japanese Studies are expected to be highly competitive, uniquely advantaged, and relevant in work areas of diplomacy, trade and management, research and teaching, development studies, economics, and politics.

Students take 18 units of the following:

FLC 1JSP	Japanese Language and Culture	3 units
5 JSP courses		15 units

Students who have taken courses in other institutions, which are equivalent to courses under the Program, may have these credited upon the approval of the Program Director. Only up to a maximum of 9 units are allowed for accreditation.

## COURSE OFFERINGS

### FLC 1JSP

#### JAPANESE LANGUAGE AND CULTURE 1

**3 units**

This course is for beginners in the study of Japanese language. It is designed to equip students with the beginning of elementary proficiency. In the end of the course, students are able to recognize and write hiragana and katakana and speak simple sentences.

### FLC 2JSP

#### JAPANESE LANGUAGE AND CULTURE 2

**3 units**

In this course of elementary Japanese, students develop sufficient comprehension beyond memorized proficiency to understand statements about simple ideas in areas of immediate need or on familiar topics. Students will have the ability to maintain simple conversations within the scope of their limited language experience.

### FLC 3JSP

#### JAPANESE LANGUAGE AND CULTURE 3

**3 units**

This course aims to bring students to the latter half of the elementary-level study of Japanese language through a review and reinforcement of previous knowledge acquired from JSP 1 and JSP 2. Students who finish this course can take the Japanese Language Proficiency Test N5.

### FLC 4JSP

#### INTERMEDIATE JAPANESE I

**3 units**

This course is a bridge between elementary and intermediate level. The course develops the ability of students to get some main ideas and locate information of relevant significance in more complex text as well as TV, make conjecture at unfamiliar vocabulary if highly contextualized.

### FLC 5JSP

#### INTERMEDIATE JAPANESE 2

**3 units**

**Pre-requisite: FLC 4JSP**

This course prepares students to be independent language users, acquire the ability to produce simple connected text on topics which are of personal interest and give reasons and explanations for opinions and plans. Students finishing this course can take the Japanese Language Proficiency Test N4.

### FLC 6JSP

#### INTERMEDIATE JAPANESE 3

**3 units**

**Pre-requisite: FLC 5JSP**

This course deals with intermediate-level Japanese, and equips students with limited but real-world language competence, develop flexibility evident in understanding a range of circumstances beyond immediate survival needs. They also get the gist of most conversations on non-technical subjects, and obtain a broader reading vocabulary.

**JSP 109**  
**HISTORY OF JAPAN**  
**3 units**

This course is a survey of Japanese civilization, particularly the formation of its traditional culture before the coming of the West.

**JSP 111**  
**JAPANESE CULTURE I**  
**3 units**

This course is an introductory survey of Japan, her history, culture, and people. This first of two courses covers the physical, social, economic, political, and cultural aspects of Japan and is required for those who plan to pursue in-depth training in Japanese or East Asian Studies.

**JSP 113**  
**COMPARATIVE CULTURES:**  
**THE PHILIPPINES AND JAPAN**  
**3 units**

This course provides a multidisciplinary description and analysis of the cultures, societies, economics, and politics of the Philippines and Japan, Asian countries that are geographically close, whose histories have been intertwined since ancient times, and whose cultures offer interesting areas of contrast and similarities.

**JSP 120**  
**HISTORY OF JAPAN'S**  
**FOREIGN RELATIONS**  
**3 units**

This course is a historical approach to the study of Japan's state-centered foreign relations, the interests pursued by the Japanese state within these relations, and the domestic and international processes that shape these interests and relations.

**JSP 121**  
**PHILIPPINE-JAPAN**  
**RELATIONS**  
**3 units**

This course is a survey of Philippine-Japan relations from pre-colonial times to the end of World War II, including current issues in Philippine-Japan relations.

**JSP 122**  
**THE JAPANESE IN THE**  
**PHILIPPINES**  
**3 units**

This course is a historical description and analysis of Japanese migration to the Philippines: the reasons for migration, their life in the Philippines, their views of Philippine development, and their impact on Philippine life, culture, and economy.

**JSP 151**  
**GOVERNMENT AND**  
**POLITICS OF JAPAN**  
**3 units**

This course is an introduction to the internal workings of the Japanese government and electoral system and their interrelationships. The course links these systems in a functionalist way to non-state groups with interests in influencing state politics in defined areas.

**JSP 154**  
**ECONOMIC HISTORY OF**  
**MODERN JAPAN**  
**3 units**

This course is a study of the economic growth of Japan in a span of a century from the Meiji Restoration to contemporary times, with emphasis on Japanese contemporary economic policy. Students gain a perspective on patterns of change or continuity in Japan's economic history.

**JSP 155**  
**ECONOMIC PLANNING**  
**3 units**

This course is a study of operations, research, and linear programming for economic

planning, with case studies on Philippine and Japanese economies.

**JSP 156**  
**JAPANESE BUSINESS**  
**MANAGEMENT AND**  
**LABOR**  
**3 units**

This course is a study of the Japanese business environment, with an analysis of the various aspects of Japanese corporations – organization, production and quality control, marketing, information technology, finance, and human resource management.

**JSP 160**  
**MODERNIZATION OF JAPAN**  
**3 units**

This course is an analysis of the process of modernization as experienced by Japan, including developments during the Tokugawa and Meiji periods: nationalism and militarism, post war recovery, and reorientation.

**JSP 161**  
**CONTINUITY AND CHANGE**  
**IN JAPANESE SOCIETY**  
**3 units**

This course is an analysis of the values and major institutions of Japanese society and their historical background and structure. Value and institutional changes, trends, and continuities are also taken up.

**JSP 162**  
**INTELLECTUALS AND**  
**SOCIETY IN JAPAN**  
**3 units**

This course introduces the major philosophies that have evolved in Japanese society from the traditional to the modern period. The course surveys concepts of man, state, and society; with emphasis on how conditions in society affected the evolution of these ideas and vice-versa.

**JSP 170****JAPAN: CONTEMPORARY ISSUES****3 units**

This course is a discussion on contemporary issues in Japan's domestic economy and international economic issues involving Japan.

**JSP 171.1****SPECIAL TOPIC:  
JAPANESE FOLKLORE****3 units**

This course is an introduction to the development of a conceptual framework for Japanese folkloristics that views folklore not as an isolated fixed text, but as a dynamic, contextual process of communication.

**JSP 171.2****SPECIAL TOPIC:  
JAPANESE WOMEN****3 units**

This course is an introduction to gender studies, providing the situation of the Japanese women as a case study, with a comparative study of their life cycle, household management, employment problems, and other related issues.

**JSP 171.3****SPECIAL TOPIC:  
JAPANESE MUSIC****3 units**

This course is an introduction to Japanese music and its historical, aesthetic, theoretical, technical, and social aspects, including an introduction to the basic theory and methodology of ethnomusicology.

**JSP 171.4****SPECIAL TOPIC:  
JAPANESE LITERATURE****3 units**

This course is an introduction to the social and historical background of Japanese literature, Japanese worldview, and language and writing system.

Topics include the role of literature in Japanese society and a survey of traditional to modern Japanese literature.

**JSP 171.5****SPECIAL TOPIC:  
JAPANESE ARTS****3 units**

This course is an introduction to the development of Japanese arts and its stylistic evolution, with emphasis on the importance of the interrelationship between the development of art and societal factors, such as geographic/climatic, political, socio-economic, and religious/spiritual.

**JSP 171.6****SPECIAL TOPIC:  
JAPANESE FILMS****3 units**

This course is a study of Japanese films as alternative texts for understanding and analyzing Japanese concepts such as kinship, honor, loyalty, and obligation.

**JSP 171.8****SPECIAL TOPIC:  
RELIGION IN MODERN  
JAPAN****3 units**

This course is an introduction to the major religious organizations in Japan, including their historical and philosophical development, and their influence on society. Emphasis is on the state of these organizations in the modern period.

**JSP 171.9****SPECIAL TOPIC:  
JAPANESE PERFORMING  
ARTS****3 units**

This course is a survey of Japanese performing art forms that includes the categories of folk (*minzoku*), traditional (*dento*), classical or court (*koten*), modern (*kindai* or *modan*), contemporary

(*gendai* or *contenporari*), avant-garde and post-modern.

**JSP 171.10****SPECIAL TOPICS: MODERN  
JAPANESE PHILOSOPHY****3 units**

This course is an in-depth exploration of modern Japanese philosophy, primarily dealing with thinkers from the Meiji period onward. This course shows how Japanese thought was transformed and became self-aware in its encounter with Western philosophy.

**JSP 172****FIELDWORK IN JAPAN****3 units**

This is a discourse on the historical and cultural presence in images of Japan through its parks, monuments, buildings, and statuary. The 15-day fieldwork will take place in the Tokyo and Kamakura area.

**JSP 173****EDUCATION IN JAPAN****3 units**

This course studies the education system and the development of modern schooling in Japan. Topics include the characteristics of various stages of education in a Japanese person's life – the writing system and language, home education, basic education, supplementary education, higher education, and further training.

**JSP 174****JAPANESE FOOD CULTURE****3 units**

This course exposes students to aspects of Japanese food such as procurement, production, processing, distribution, consumption, and waste and recycling. The discussion includes the scrutiny of Japanese food in the areas of politics, economy and culture. It may employ the historical approach, the

gastronomic analysis as well as approaches in the cultural studies.

**JSP 175**

**JAPAN AND ASEAN**

**3 units**

This course focuses on Japan as a dialogue partner of ASEAN. It examines its foreign relations with Southeast Asia and its impact on its relations with Northeast Asia, and vice versa.





Room 300 Ricardo & Dr. Rosita Leong Hall  
(632) 426-6001 loc. 5250/5252  
fax: (632) 426-0906  
polsci@admu.edu.ph

# POLITICAL SCIENCE

**Maria Elissa J. Lao**  
*Chair*

**Faculty**  
*Associate Professor*  
Benjamin T. Tolosa Jr.

**Assistant Professors**  
Anne Lan K. Candelaria  
Maria Elissa J. Lao  
Diana J. Mendoza  
Jennifer S. Oreta  
Ma. Lourdes V. Rallonza  
Alma Maria O. Salvador

**Instructors**  
Carmel V. Abao  
Arjan P. Aguirre  
Pilar Preciousa P. Berse  
Rene Raymond R. Rañeses Jr.  
Gino Antonio P. Trinidad

**Lecturers**  
Benjamin Roberto G. Barretto  
Kristoffer B. Berse  
Valerie Pagasa P. Buenaventura  
Sedrey M. Candelaria  
Lisandro Elias E. Claudio  
Ophelia A. Gonzales  
Javad F. Heydarian  
Hansley A. Juliano  
Antonio Gabriel M. La Viña  
Millard O. Lim  
Rosario G. Manalo  
Ricardo A. Sunga III  
Gianna Marie A. Villa-Real  
Peter S.J. W. Walpole

**Visiting Professors**  
Kenji Isezaki  
Rodelio C. Manacsa

The Department of Political Science envisions itself as a catalyst in molding the political and social consciousness of the University and the larger community that it serves. The Department aspires to be a leader in the field of politics and governance – educating its students and the broader citizenry toward the development of institutions of peace and justice, equity and sustainability, and inclusiveness and respect for human rights. Through its teaching, research, and outreach activities, the Department seeks to participate in processes of democratization and popular empowerment at many levels—local, national, and global—within the framework of critical inquiry, intellectual rigor, and committed public service.

It seeks to train professionals who will be future leaders in their chosen fields; to contribute to the teaching/shaping of the discipline at the tertiary and basic education levels through a research and content-based instruction; to contribute to the country's development process through scholarly research, intellectual exchange, professional consultancy, and community/public outreach.

## BACHELOR OF ARTS MAJOR IN POLITICAL SCIENCE

AB Political Science provides its graduates with a solid background in international relations, comparative politics, political theory, and public management. The program is designed to train students in critical and analytical thinking and leadership. The program is enhanced by an internship program, a Junior Term Abroad program, and service learning course.

The program provides one of the best pre-law preparation programs as well as training for work in government and social development.

### FIRST YEAR

<u>First Semester</u>		<u>Units</u>	<u>Second Semester</u>		<u>Units</u>
EN 11	Communication in English I	3	EN 12	Communication in English II	3
LIT 13	Introduction to Fiction	3	LIT 14	Introduction to Poetry and Drama	3
MA 11	Modern Mathematics I	3	MA 12	Modern Mathematics II	3
FIL 11	Sining ng Pakikipagtalastasan sa Filipino I	3	FIL 12	Sining ng Pakikipagtalastasan sa Filipino II	3
NATSCI 1A	Natural Science, Lecture	3	NATSCI 2A	Natural Science, Lecture	3
NATSCI 1B	Natural Science, Laboratory	1	NATSCI 2B	Natural Science, Laboratory	1
PE 1	Physical Education	(2)	PE 2	Physical Education	(2)
INTAC 1	Introduction to Ateneo Culture and Traditions	(0)	INTAC 2	Introduction to Ateneo Culture and Traditions	(0)
		<i>Total:</i> 16			<i>Total:</i> 16

### SECOND YEAR

<u>First Semester</u>		<u>Units</u>	<u>Second Semester</u>		<u>Units</u>
FIL 14	Panitikan ng Pilipinas	3	PSY 101	General Psychology	3
HI 16/HI 18	Asian History/Western History	3	FLC	Foreign Language and Culture	3
POS 50	Introduction to Political Science	3	POS 160	Qualitative Methods in the Social Sciences	3
POS 100	Politics and Governance	3	POS 163	Contemporary Political Theories	3
POS 162	History of Political Theory	3	SCI 10	Science and Society	3
SA 21	Introduction to Sociology and Anthropology	3	TH 121	An Introduction to Doing a Catholic Theology	3
PE 3	Physical Education	(2)	PE 4	Physical Education	(2)
NSTP 1	National Service Training Program	(3)	NSTP 2	National Service Training Program	(3)
		<i>Total:</i> 18			<i>Total:</i> 18

### THIRD YEAR

<u>First Semester</u>		<u>Units</u>	<u>Second Semester</u>		<u>Units</u>
HI 165	Rizal and the Emergence of the Philippine Nation	3	PH 102	Philosophy of the Human Person II	3
PH 101	Philosophy of the Human Person I	3	HI 166	Philippine History	3
POS 110	Fundamentals of Public Management	3	POS 131	International Political Economy	3
POS 130	International Relations	3	POS 190	Comparative Politics	3
EC 102	Basic Economics, Agrarian Reform and Taxation	3	TH 131	Marriage, Family Life and Human Sexuality in a Catholic Perspective	3
POS 161	Quantitative Methods in the Social Sciences	3	POS ELECTIVE		3
		<i>Total:</i> 18			<i>Total:</i> 18

### FOURTH YEAR

<u>Summer</u>		<u>Units</u>
POS 70	Directed Study	3
		<i>Total:</i> 3

<u>First Semester</u>		<u>Units</u>	<u>Second Semester</u>		<u>Units</u>
PH 103/	Philosophy of Religion/		PH 103/	Philosophy of Religion/	
PH 104	Foundations of Moral Value	3	PH 104	Foundations of Moral Value	3
TH 141/	A Theology of the Catholic Social Vision/		TH 141/	A Theology of the Catholic Social Vision/	
TH 151	The Catholic Commitment of Today's Filipino: A Synthesis	3	TH 151	The Catholic Commitment of Today's Filipino: A Synthesis	3
POS 140	Current Issues and Problems in Philippine Government and Politics	3	POS ELECTIVE		3
POS ELECTIVE		3	POS ELECTIVE		3
FREE ELECTIVE		3	FREE ELECTIVE		3
		<i>Total:</i> 15			<i>Total:</i> 15

Total Number of Academic Units: 137  
Curriculum Effective Freshman Batch SY 2004-2005

# BACHELOR OF ARTS

## IN DIPLOMACY AND INTERNATIONAL RELATIONS

### WITH SPECIALIZATION IN EAST AND SOUTHEAST ASIAN STUDIES

AB Diplomacy and International Relations with specialization in East and Southeast Asian Studies is designed to train students who envision a diplomatic career with the Philippine Department of Foreign Affairs (DFA), the Association of Southeast Asian Nations (ASEAN), the United Nations and its agencies and other regional and international organizations. A specialization track in East and Southeast Asian studies equips students with a multidisciplinary understanding of the region's history, culture, language, economic development, politics and business.

The program provides rigorous training to students who are inclined to take the Foreign Service Exam and enter the diplomatic corps.

#### FIRST YEAR

<u>First Semester</u>		<u>Units</u>	<u>Second Semester</u>		<u>Units</u>
EN 11	Communication in English I	3	EN 12	Communication in English II	3
LIT 13	Introduction to Fiction	3	LIT 14	Introduction to Poetry and Drama	3
MA 11	Modern Mathematics I	3	MA 12	Modern Mathematics II	3
FIL 11	Sining ng Pakikipagtalastasan sa Filipino I	3	FIL 12	Sining ng Pakikipagtalastasan sa Filipino II	3
NATSCI 1A	Natural Science, Lecture	3	NATSCI 2A	Natural Science, Lecture	3
NATSCI 1B	Natural Science, Laboratory	1	NATSCI 2B	Natural Science, Laboratory	1
PE 1	Physical Education	(2)	PE 2	Physical Education	(2)
INTAC 1	Introduction to Ateneo Culture and Traditions	(0)	INTAC 2	Introduction to Ateneo Culture and Traditions	(0)
		<i>Total: 16</i>			<i>Total: 16</i>

#### SECOND YEAR

<u>Summer</u>		<u>Units</u>
FIL 14	Panitikan ng Pilipinas	3
PSY 101	General Psychology	3
		<i>Total: 6</i>

<u>First Semester</u>		<u>Units</u>	<u>Second Semester</u>		<u>Units</u>
SA 21	Introduction to Sociology and Anthropology	3	SCI 10	Science and Society	3
HI 165	Rizal and the Emergence of the Philippine Nation	3	POS 160	Qualitative Methods in the Social Sciences	3
TH 121	An Introduction to Doing a Catholic Theology	3	POS 135	Philippine Foreign Policy	3
POS 100	Politics and Governance	3	HI 16.2	Asian History since 1500	3
POS 162	History of Political Theory	3	POS 191	Comparative Politics (Asia)	3
FLC 1	Foreign Language and Culture	3	FLC 2	Foreign Language and Culture	3
PE 3	Physical Education	(2)	PE 4	Physical Education	(2)
NSTP 1	National Service Training Program	(3)	NSTP 2	National Service Training Program	(3)
		<i>Total: 18</i>			<i>Total: 18</i>

#### THIRD YEAR

<u>First Semester</u>		<u>Units</u>	<u>Second Semester</u>		<u>Units</u>
PH 101	Philosophy of the Human Person I	3	PH 102	Philosophy of the Human Person II	3
EC 102	Basic Economics, Agrarian Reform and Taxation	3	TH 131	Marriage, Family Life and Human Sexuality in a Catholic Perspective	3
POS 161	Quantitative Methods in the Social Sciences	3	SA 141	Peoples and Cultures of Southeast Asia	3
POS 130	International Relations	3	POS 136	Diplomacy and Consular Practice	3
POS 132	International Law	3	FLC 4	Foreign Language and Culture	3
FLC 3	Foreign Language and Culture	3	POS ELECTIVE		3
		<i>Total: 18</i>			<i>Total: 18</i>

#### FOURTH YEAR

<u>Summer</u>		<u>Units</u>
POS 70	Directed Study	3
		<i>Total: 3</i>

<u>First Semester</u>		<u>Units</u>	<u>Second Semester</u>		<u>Units</u>
PH 103/	Philosophy of Religion/		PH 103/	Philosophy of Religion/	
PH 104	Foundations of Moral Value	3	PH 104	Foundations of Moral Value	3
TH 141/	A Theology of the Catholic Social Vision/		TH 141/	A Theology of the Catholic Social Vision/	
TH 151	The Catholic Commitment of Today's Filipino: A Synthesis	3	TH 151	The Catholic Commitment of Today's Filipino: A Synthesis	3
POS 134.1	International Negotiation and Conflict Resolution	3	EC 185.50	Comparative Economic Development In East and Southeast Asia	3
POS 130.7	Special Topics in International Relations:				

Theories and Issues of Human Security in East and Southeast Asia	3	LS 174 Doing Business in the Asian Context	3
HI 166 Philippine History	3	FREE ELECTIVE	3
POS ELECTIVE	3	FREE ELECTIVE	3
<b>Total:</b>	<b>18</b>	<b>Total:</b>	<b>18</b>

Total Number of Academic Units: 149  
Curriculum Effective Freshman Batch SY 2012-2013

## BACHELOR OF ARTS, MAJOR IN POLITICAL SCIENCE/ MASTER OF ARTS IN POLITICAL SCIENCE, MAJOR IN GLOBAL POLITICS

AB-MA Political Science, major in Global Politics (Honors Program) is developed for outstanding individuals who are interested in pursuing a master's degree after four years of undergraduate studies in political science. It has a selective intake and thus demands higher standards from its students in preparation for advanced studies in political science in their senior year.

The program prepares graduates for careers in teaching, research, and development work in local and regional arenas. It also provides solid background for doctoral studies in the Philippines and abroad.

### FIRST YEAR

<u>First Semester</u>	<u>Units</u>	<u>Second Semester</u>	<u>Units</u>
EN 11 Communication in English I	3	EN 12 Communication in English II	3
LIT 13 Introduction to Fiction	3	LIT 14 Introduction to Poetry and Drama	3
MA 11 Modern Mathematics I	3	MA 12 Modern Mathematics II	3
FIL 11 Sining ng Pakikipagtalastasan sa Filipino I	3	FIL 12 Sining ng Pakikipagtalastasan sa Filipino II	3
NATSCI 1A Natural Science, Lecture	3	NATSCI 2A Natural Science, Lecture	3
NATSCI 1B Natural Science, Laboratory	1	NATSCI 2B Natural Science, Laboratory	1
PE 1 Physical Education	(2)	PE 2 Physical Education	(2)
INTAC 1 Introduction to Ateneo Culture and Traditions	(0)	INTAC 2 Introduction to Ateneo Culture and Traditions	(0)
<b>Total:</b>	<b>16</b>	<b>Total:</b>	<b>16</b>

### SECOND YEAR

<u>First Semester</u>	<u>Units</u>	<u>Second Semester</u>	<u>Units</u>
FIL 14 Panitikan ng Pilipinas	3	PSY 101 General Psychology	3
HI 16/HI 18 Asian History/Western History	3	FLC Foreign Language and Culture	3
POS 50 Introduction to Political Science	3	POS 160 Qualitative Methods in the Social Sciences	3
POS 100 Politics and Governance	3	POS 163 Contemporary Political Theories	3
POS 162 History of Political Theory	3	SCI 10 Science and Society	3
SA 21 Introduction to Sociology and Anthropology	3	TH 121 An Introduction to Doing a Catholic Theology	3
PE 3 Physical Education	(2)	PE 4 Physical Education	(2)
NSTP 1 National Service Training Program	(3)	NSTP 2 National Service Training Program	(3)
<b>Total:</b>	<b>18</b>	<b>Total:</b>	<b>18</b>

### THIRD YEAR

<u>Summer</u>	<u>Units</u>
EC 102 Basic Economics, Agrarian Reform and Taxation	3
HI 165 Rizal and the Emergence of the Philippine Nation	3
<b>Total:</b>	<b>6</b>

<u>First Semester</u>	<u>Units</u>	<u>Second Semester</u>	<u>Units</u>
HI 166 Philippine History	3	PH 102 Philosophy of the Human Person II	3
PH 101 Philosophy of the Human Person I	3	POS 131 International Political Economy	3
POS 110 Fundamentals of Public Management	3	POS 190 Comparative Politics	3
POS 130 International Relations	3	TH 131 Marriage, Family Life and Human Sexuality in a Catholic Perspective	3
POS 161 Quantitative Methods in the Social Sciences	3	POS ELECTIVE	3
FREE ELECTIVE	3	FREE ELECTIVE	3
<b>Total:</b>	<b>18</b>	<b>Total:</b>	<b>18</b>

### FOURTH YEAR

<u>Summer</u>	<u>Units</u>
POS 70 Directed Study	3
<b>Total:</b>	<b>3</b>

<u>First Semester</u>	<u>Units</u>	<u>Second Semester</u>	<u>Units</u>
PH 103/ Philosophy of Religion/		PH 103/ Philosophy of Religion/	

PH 104	Foundations of Moral Value	3	PH 104	Foundations of Moral Value	3
TH 141/	A Theology of the Catholic Social Vision/		TH 141/	A Theology of the Catholic Social Vision/	
TH 151	The Catholic Commitment of		TH 151	The Catholic Commitment of	
	Today's Filipino: A Synthesis	3		Today's Filipino: A Synthesis	3
POS 140	Current Issues and Problems in		POS 220	Graduate Seminar in Public Policy	3
	Philippine Government and Politics	3	POS 260	Graduate Seminar in Comparative Politics	3
POS ELECTIVE		3			<i>Total: 12</i>
POS 200	Advanced Political Analysis and Methodology	3			
POS 240	Graduate Seminar in International Relations	3			
	<i>Total: 18</i>				

### FIFTH YEAR

<u>Summer</u>	<u>Units</u>				
COMPRES 200 Comprehensive Exams	0				
	<i>Total: 0</i>				
<u>First Semester</u>	<u>Units</u>	<u>Second Semester</u>	<u>Units</u>		
POS-MA 1 Specialization	3	POS 299A THESIS WRITING	0		
POS-MA 1 Specialization	3	POS 299B THESIS WRITING	0		
POS-MA 1 Specialization	3			<i>Total: 0</i>	
POS ELECTIVE	3				
	<i>Total: 12</i>				

Total Number of Undergraduate Academic Units: 131  
Total Number of Graduate Academic Units: 24  
Total Number of Academic Units: 155  
Curriculum Effective Freshman Batch SY 2010-2011

## BACHELOR OF ARTS, MAJOR IN POLITICAL SCIENCE / MASTER IN PUBLIC MANAGEMENT

AB Political Science-Masters in Public Management (Honors Program) is a collaboration between the Political Science Department and the Ateneo School of Government (ASoG). Designed as an AB-MA program, it targets students who are interested in finishing with a Master in Public Management (MPM) degree in one year under the auspices of the ASoG. The program is further distinguished by a rigorous internship training.

The program is a training ground for future functionaries, development leaders, and politicians.

### FIRST YEAR

<u>First Semester</u>	<u>Units</u>	<u>Second Semester</u>	<u>Units</u>
EN 11 Communication in English I	3	EN 12 Communication in English II	3
LIT 13 Introduction to Fiction	3	LIT 14 Introduction to Poetry and Drama	3
MA 11 Modern Mathematics I	3	MA 12 Modern Mathematics II	3
FIL 11 Sining ng Pakikipagtalastasan sa Filipino I	3	FIL 12 Sining ng Pakikipagtalastasan sa Filipino II	3
NATSCI 1A Natural Science, Lecture	3	NATSCI 2A Natural Science, Lecture	3
NATSCI 1B Natural Science, Laboratory	1	NATSCI 2B Natural Science, Laboratory	1
PE 1 Physical Education	(2)	PE 2 Physical Education	(2)
INTAC 1 Introduction to Ateneo Culture and Traditions	(0)	INTAC 2 Introduction to Ateneo Culture and Traditions	(0)
	<i>Total: 16</i>		<i>Total: 16</i>

### SECOND YEAR

<u>First Semester</u>	<u>Units</u>	<u>Second Semester</u>	<u>Units</u>
FIL 14 Panitikan ng Pilipinas	3	PSY 101 General Psychology	3
HI 16/HI 18 Asian History/Western History	3	FLC Foreign Language and Culture	3
POS 50 Introduction to Political Science	3	POS 160 Qualitative Methods in the Social Sciences	3
POS 100 Politics and Governance	3	POS 163 Contemporary Political Theories	3
POS 162 History of Political Theory	3	SCI 10 Science and Society	3
SA 21 Introduction to Sociology and Anthropology	3	TH 121 An Introduction to Doing a Catholic Theology	3
PE 3 Physical Education	(2)	PE 4 Physical Education	(2)
NSTP 1 National Service Training Program	(3)	NSTP 2 National Service Training Program	(3)
	<i>Total: 18</i>		<i>Total: 18</i>

### THIRD YEAR

<u>Summer</u>	<u>Units</u>		
EC 102 Basic Economics, Agrarian Reform and Taxation	3		
HI 165 Rizal and the Emergence of the Philippine Nation	3		
	<i>Total: 6</i>		
<u>First Semester</u>	<u>Units</u>	<u>Second Semester</u>	<u>Units</u>
PH 101 Philosophy of the Human Person I	3	PH 102 Philosophy of the Human Person II	3

HI 166	Philippine History	3	TH 131	Marriage, Family Life and Human Sexuality	3
POS 110	Fundamentals of Public Management	3		in a Catholic Perspective	3
POS 130	International Relations	3	POS 131	International Political Economy	3
POS 161	Quantitative Methods in the Social Sciences	3	POS 190	Comparative Politics	3
FREE ELECTIVE		3	POS ELECTIVE		3
		<i>Total: 18</i>	FREE ELECTIVE		<i>Total: 18</i>

#### FOURTH YEAR

<u>Summer</u>		<u>Units</u>			
POS 70	Directed Study	3			
		<i>Total: 3</i>			
<u>First Semester</u>		<u>Units</u>	<u>Second Semester</u>		<u>Units</u>
PH 103/	Philosophy of Religion/		PH 103/	Philosophy of Religion/	
PH 104	Foundations of Moral Value	3	PH 104	Foundations of Moral Value	3
TH 141/	A Theology of the Catholic Social Vision/		TH 141/	A Theology of the Catholic Social Vision/	
TH 151	The Catholic Commitment of		TH 151	The Catholic Commitment of	
	Today's Filipino: A Synthesis	3		Today's Filipino: A Synthesis	3
POS 140	Current Issues and Problems in		PM 212	Power, Ethics and Accountability	3
	Philippine Government and Politics	3	PM 213	Public Policy Development and Analysis	3
POS ELECTIVE		3	QUALIFYING EXAMS		0
PM 210	Leadership in Public Service	3			<i>Total: 12</i>
PM 211	Understanding the Bureaucracy	3			
		<i>Total: 18</i>			

#### FIFTH YEAR

<u>Summer</u>		<u>Units</u>			
INTERNSHIP ASOG		9			
		<i>Total: 9</i>			
<u>First Semester</u>		<u>Units</u>	<u>Second Semester</u>		<u>Units</u>
SGORDEV	Organizational Development	3	SGGOVINN	Governance Innovation Seminar	3
SGPUBFIN	Public Finance and Budgeting	3	SGGOVINS	Governance Innovation Report	3
SGINTMGT	Integrated Program Management	3			<i>Total: 6</i>
SGLOCGOV	Local Governance	3			
SGSTATMAN	Statistics of Public Management	3			
SGENVIMA	Environmental Management	3			
		<i>Total: 18</i>			

Total Number of Undergraduate Academic Units: 131  
Total Number of Graduate Academic Units: 45  
Total Number of Academic Units: 176  
Curriculum Effective Freshman Batch SY 2009-2010

### MINOR IN GLOBAL POLITICS

The Minor in Global Politics is designed to introduce students to two Political Science sub-fields that address such concerns: Comparative Politics and International Relations. The program is designed for students who are not majoring in Political Science or European Studies (International Relations Track), but who are interested in this dimension of political studies and see the distinct contributions of such training to their own fields of academic specialization and prospective professional careers. It is expected that the program will attract students who see themselves working with globally-oriented organizations and networks, and/or pursuing graduate degrees in fields related to global studies.

The Minor in Global Politics is open to all Loyola Schools undergraduate students, except those who are majoring in Political Science or European Studies (IR track). Students must have a QPI of at least 1.9 to be admitted into the minor program and must maintain a grade of at least C in all the required courses.



Students take the following required courses and electives:

POS 100	Politics and Governance	3 units
POS 130	International Relations	3 units
POS 130.1	Issues and Problems in International Relations	3 units
POS 190	Comparative Politics	3 units
GP Electives*		6 units

\* Electives in Global Politics are chosen with the approval of the Chair of the Political Science Department or a designated adviser.

### **MINOR IN PUBLIC MANAGEMENT**

The Minor in Public Management seeks to provide students with the knowledge, skills, and values that would help prepare them for a career in government, the non-profit sector, or in social business.

The six 3-unit courses (or 18-unit course work) that are integrated into the students' curriculum aim at complementing and enhancing the students' academic training acquired from their field of study. They provide the students with the opportunity to acquire a good grasp of the theoretical foundations of the study of public management, develop leadership skills, as well as learn and appreciate ethical standards in public management.

The foundational courses of 9 units provide students with the theoretical and conceptual tools that can be used to understand the nature and dynamics of relations, as well as analyze issues or problems, in public management. For these courses, students can choose from the following:

POS 110	Fundamentals of Public Management	3 units
POS 111	Public Policy	3 units
POS 113	Philippine Administrative System	3 units
POS 170	Organizational Development	3 units
POS 140	Current Issues and Problems in Philippine Government and Politics	3 units
POS 142	Local Government	3 units

The elective courses of 6 units focus on specific policy areas or concerns, or on special topics or problems, in public management. These courses introduce the students to the different areas of study or sub-fields of public management. For these elective courses, students can choose from the following:

POS 112	Environmental Policies	3 units
POS 114	Politics of Development Policy	3 units
POS 115	Comparative Public Administration	3 units
POS 116	Participatory Governance	3 units
POS 1XX.XX	Special Topics	3 units

The remaining 3 units would be the required General Education Course on Politics and Governance or POS 100 that provides students with a basic understanding of the workings of the Philippine political system.

## COURSE OFFERINGS

### **PM 210**

#### **LEADERSHIP IN PUBLIC SERVICE**

**3 units**

**Pre-requisite: Power, Ethics and Accountability and Social Change**

The course aims to form persons capable of exercising ethical and effective leadership in public service. The course also aims to deepen understanding of local and global leadership, personal and organizational reform, social justice and how leadership roles address these issues.

### **PM 211**

#### **UNDERSTANDING THE BUREAUCRACY**

**3 units**

The course provides students with perspectives on the structure, logic, and possibilities of the bureaucracy. The course integrates concepts from public administration, political science, and organization studies towards a deeper understanding of the bureaucracy as an agent and an arena for change.

### **PM 212**

#### **POWER, ETHICS AND ACCOUNTABILITY**

**3 units**

This course examines the following: the actual practice of power, ethics, and accountability in governance, the causes of corruption, and the structures and measures to promote accountability and combat corruption. It trains students to recognize, articulate, and navigate through ethical dilemmas in their professional and personal lives.

### **PM 213**

#### **PUBLIC POLICY DEVELOPMENT AND ANALYSIS**

**3 units**

This course studies public policy, the processes of policy-making and implementation, and the integral role of politics in the process. This aims to develop an understanding of the policy environment – the context, challenges and constraints of official decision-making; and presents conceptual frameworks that view government decision-makers as positive change agents who seek to solve social problems.

### **POS 50**

#### **INTRODUCTION TO POLITICAL SCIENCE**

**3 units**

(Old cat. no. POS 51)

This course is a study of the analytic concepts, processes, and structures of politics. The level of analysis ranges from the study of the individual's political beliefs and actions to the politics of groups, states, and international systems.

### **POS 70**

#### **DIRECTED STUDY**

**3 units**

**Pre-requisites: POS 50, POS 160**

This course is designed for students who have shown intellectual maturity, initiative, and ability to conduct research or participate in a practicum. Upon approval by the Chair, students consult with the prospective adviser and decide whether to conduct research or participate in practicum. The research output is a thesis paper. For the practicum, the student, the adviser, and the

department chair design the conduct of the practicum.

### **POS 100**

#### **POLITICS AND GOVERNANCE**

**3 units**

This course introduces the persons, structures, and processes involved in the operation of the political system. Topics include basic political concepts, institutions of government, and the complex relationship between the citizenry and the state. Focus is on the Philippine context and contemporary issues.

### **POS 110**

#### **FUNDAMENTALS OF PUBLIC MANAGEMENT**

**3 units**

(Old cat. no. POS 116)

This course is a study of the principles, practices, and problems of public management; as well as the national and local bureaucracy and administration, including budgeting, personnel, and program implementation and evaluation.

### **POS 110.1**

#### **SPECIAL TOPICS IN PUBLIC POLICY: INTELLECTUAL PROPERTY**

**3 units**

(Old cat. no. POS 180.8)

This course is an introduction to the principles, doctrines, and concepts (e.g. copyright, patents, trademarks) referred to as "Intellectual Property." Topics include contemporary issues relating to intellectual property with emphasis on the Philippine situation.

**POS 110.2  
SPECIAL TOPICS IN PUBLIC  
POLICY: POLITICAL  
MANAGEMENT**

**3 units**

(Old cat. no. POS 180.15)  
This course introduces the concept of political management through a discussion of campaigns and elections, lobbying, government relations, grassroots politics, fund-raising, issues management, and crisis management. Topics include the media as political and communication tools, political leadership, and the ethical dimensions of public life.

**POS 110.3  
SPECIAL TOPICS IN PUBLIC  
POLICY: CORRUPTION**

**3 units**

(Old cat. no. POS 180.20)  
This course studies corruption—its causes, consequences, and the challenges to combat it. The variants of corruption are critically examined. The course explores how universal values of democracy and good governance contribute and respond to reforms that are credible and appropriate for a developing country.

**POS 111  
PUBLIC POLICY**

**3 units**

(Old cat. no. POS 117)  
This course enables students to explore the various stages of the policy cycle: agenda setting, policy formulation, decision-making, implementation, and evaluation. This offers a deeper understanding of the different issues surrounding the creation, implementation, and evaluation of different policies.

**POS 112  
ENVIRONMENTAL  
POLICIES**

**3 units**

(Old cat. no. POS 120)  
This course studies environmental problems in the Philippines, and reviews the record of the Philippine government in making and implementing laws to protect the environment. It assesses the role of key players – government and individual, public and private – in the preservation/destruction of the environment.

**POS 113  
PHILIPPINE  
ADMINISTRATIVE SYSTEM**

**3 units**

(Old cat. no. POS 118)  
This course studies the development and structure of the Philippine administrative system, with emphasis on the present organization, personnel recruitment, and the nature of the different functions of the bureaucracy. The course also assesses the effectiveness of the bureaucracy on the various facets of administration.

**POS 114  
THE POLITICS OF  
DEVELOPMENT POLICY**

**3 units**

(Old cat. no. POS 117.1)  
This course studies the conditions under which changes in policy have occurred, in an attempt to identify a formula for creating a platform for successful policy reform. Analysis is centered on the role of decision- and policymakers, the choices they make, and factors affecting these choices.

**POS 115  
COMPARATIVE PUBLIC  
ADMINISTRATION**

**3 units**

(Old cat. no. POS 119)  
This course is a study of the basic concepts and framework for the comparison of public administration in different countries: the so-called "strong states" like Japan, Singapore, France, and Germany, with the "weak states" such as the United States.

**POS 115.1  
FEMINIST COMPARATIVE  
POLICY**

**3 units**

(Old cat. no. POS 180.17)  
This course introduces an area of feminist study within the field of political science. Topics include feminist policy and the related issues of gender, policy, and the state. Students are introduced to conceptual and research literature in the three major areas of feminist comparative research.

**POS 116  
PARTICIPATORY  
GOVERNANCE**

**3 units**

(Old cat. no. POS 167)  
This course situates participatory governance in previous and emerging development perspectives and practices. The course also looks at the different modalities of state and society dynamics in advocacy, representation, and activism, and assesses societal actors' level of influence on policy making.

**POS 118  
POLITICS OF EDUCATION**

**3 units**

(Old cat. no. POS 118.1)  
This course analyzes the interplay of politics, governance and decision-making and learning in schools

in the Philippines. It explores the tension between theory and praxis and examines interests of different actors and stake holders.

**POS 130  
INTERNATIONAL  
RELATIONS**

**3 units**

This course studies political and diplomatic relations among states and the dynamics of the worldwide system, with a view of world politics as a power struggle. Topics include the elements of national power and its limiting factors, and the search for and promotion of peace.

**POS 130.1  
SPECIAL TOPICS IN  
INTERNATIONAL  
RELATIONS:  
ISSUES AND PROBLEMS IN  
INTERNATIONAL  
RELATIONS**

**3 units**

(Old cat.no. POS 138)

This course studies critical issues in contemporary international relations, such as nuclear proliferation, worldwide traffic in drugs, terrorism, population control, degradation of the environment, and regional and ethnic conflicts in Bosnia, Rwanda, Israel, Palestine, and Iraq, which have spill-over effects on other nations.

**POS 130.2  
SPECIAL TOPICS IN  
INTERNATIONAL  
RELATIONS: NORMATIVE  
ISSUES IN  
INTERNATIONAL  
RELATIONS**

**3 units**

(Old cat.no. POS 130.1)

This course is an examination of the role of norms and ethics in the conduct of international affairs with emphasis on

applying ideas, thoughts, and values in the assessment of world affairs.

**POS 130.3  
SPECIAL TOPICS IN  
INTERNATIONAL  
RELATIONS:  
EPISTEMOLOGICAL ISSUES  
IN GLOBAL POLITICS**

**3 units**

**Pre-requisite:** POS 130

This course studies the role that epistemology plays in understanding global political issues. Most debates in global politics assume that participants do not possess a common understanding of underlying doctrines, making it difficult for the participants to reach consensus and leading to dissent and conflict.

**POS 130.4  
SPECIAL TOPICS IN  
INTERNATIONAL  
RELATIONS:  
INTERNATIONAL  
SECURITY AND STRATEGIC  
STUDIES**

**3 units**

(Old cat.no. POS 130.6)

This course is an introduction to the study of critical approaches to International Relations (IR), focusing on the questions raised by feminist and post-structural theories against traditional conceptions of "security." The literature included in the course seeks to break away from the disciplinary boundaries of IR and attempts to raise questions.

**POS 130.5  
SPECIAL TOPICS IN  
INTERNATIONAL  
RELATIONS:  
INTERNATIONAL  
SECURITY STUDIES**

**3 units**

(Old cat.no. POS 180.2)

This course surveys major theories and issues in the field

of security studies. It looks into the role of systemic constraints, such as the balance of power and the security dilemma. The course then analyzes critical issues in international security, such as regional stability in Asia.

**POS 130.6  
SPECIAL TOPICS IN  
INTERNATIONAL  
RELATIONS: FOREIGN  
POLICY, NATIONAL  
INTEREST AND  
CITIZENSHIP**

**3 units**

(Old cat. no. POS 130.4)

This course studies the processes, roles, and decision-making arrangements that constitute and define foreign policy. Focus is on the shifting roles of the government, the citizens, and government-citizenry dynamics in the formulation and implementation of a foreign policy that promotes national interest and cosmopolitan ideals.

**POS 130.7  
SPECIAL TOPICS IN  
INTERNATIONAL  
RELATIONS:  
THEORIES AND ISSUES OF  
HUMAN SECURITY IN EAST  
AND SOUTHEAST ASIA**

**3 units**

This course looks into the theoretical definition of security and examines how traditional conceptions of security are questioned by the human security and development framework and emergent security paradigms. The course recognizes the changing environment of states particularly in the region of East and Southeast Asia and incorporates these challenges.

**POS 130.8  
SPECIAL TOPICS IN  
INTERNATIONAL  
RELATIONS: MEDIA AND  
GLOBALIZATION**

**3 units**

This course is a study of the relationship between media and globalization. The course highlights the social, political, cultural, and ultimately moral relevance of media's role in the processes of globalization.

**POS 131  
INTERNATIONAL  
POLITICAL ECONOMY**

**3 units**

This course examines the interlocking role of politics and economics in international relations: how economics affects a nation's actions; how political will directs a country's foreign policy goals; the politics behind investment, aid, and trade policies; and other aspects of their interrelationship.

**POS 131.1  
GLOBAL ECONOMICS AND  
TRADE, REGIONAL  
ECONOMIC BLOCS**

**3 units**

**Pre-requisite:** POS 131  
(Old cat.no. POS 135)

This course studies the historical background of the integration of national economies, and assessment of the development of regional economic blocs, such as the European Union, NAFTA, APEC, and the ASEAN, in view of the increasing globalization of trade and integration of national economies.

**POS 131.2  
MULTINATIONAL  
CORPORATIONS AND  
INTERNATIONAL  
FINANCIAL INSTITUTIONS**

**3 units**

**Pre-requisite:** POS 131

(Old cat. no. POS 136)

This course focuses on the role of multinational corporations in the global economy. Topics include an assessment of the effects of the increasing freedom in the movement of goods and capital across national boundaries and the growing importance of international financial institutions such as the IMF.

**POS 131.3  
POLITICS OF THE  
INTERNATIONAL  
MONETARY SYSTEM**

**3 units**

(Old cat.no. POS 130.5)

This course probes the political and economic forces that influence international monetary systems. It will assess the role of national actors and international financial organizations like the World Bank; and critical issues such as currency crises, global financial integration, and monetary union.

**POS 131.4  
THE STATE AND  
ECONOMIC  
DEVELOPMENT: EAST AND  
SOUTHEAST ASIA**

**3 units**

(Old cat.no. POS 180.4)

This course examines the state's role in economic development. Basic knowledge about "state" and "various ideologies/theories in economic development" are provided. Selected cases of developmental experiences from the East and Southeast Asian countries provide students with examples of

regional developmental trajectories and future perspective.

**POS 132  
INTERNATIONAL LAW**

**3 units**

This course studies the nature, development, sources, principles, and problems of public and private international law, and their role in the development of a worldwide community, including case studies involving citizens, states, or judicial entities of different states.

**POS 132.2  
INTERNATIONAL HUMAN  
RIGHTS AND DOMESTIC  
LEGAL PROCESSES**

**3 units**

This introductory course surveys the history, theory, and practices of international human rights and the issues related to its interaction with domestic legal processes. It aims to equip students with the skill to frame human rights questions and identify and simulate rudimentary domestic legal processes.

**POS 133  
INTERNATIONAL  
ORGANIZATIONS AND  
REGIONAL ALLIANCES**

**3 units**

(Old cat.no. POS 134)

This course studies the history of the League of Nations and its successor, the United Nations. Topics include an assessment of the UN's effectiveness in promoting international peace, including its present role in Bosnia, Haiti, Rwanda, Burundi, Somalia, the Iran-Iraq war, and other regional conflicts.

**POS 133.1****LAWS OF GLOBAL REGULATION AND THE UNITED NATIONS****3 units**

(Old cat. no. POS 130.2)

This course looks at the different areas of international law which are central to an understanding of the United Nations: international legal personality, peacekeeping, international humanitarian law, and the laws of war. The different cases where the United Nations has been involved in are also analyzed.

**POS 133.2****EUROPE AND TRANSNATIONAL CRIMES****3 units**

(Old cat. no. POS 180.10)

This course introduces the study of organized transnational crimes and how the European Union participates in and contributes to fighting these crimes. The course examines the concepts which define these crimes and the manner by which non-state actors threaten state relations and human security.

**POS 133.3****SOUTHEAST ASIAN INTERNATIONAL RELATIONS****3 units**

(Old cat.no. POS 137)

This course examines relations among Southeast Asian nations, with emphasis on contemporary issues. The course deals with the interplay of economic cooperation among them and the potential for conflict of political issues, such as human rights.

**POS 133.4****EXTERNAL RELATIONS OF THE EUROPEAN UNION****3 units**

(Old cat.no. POS 180.3)

This course studies the external policies of the European Community and the Common Foreign and Security Policy of the European Union. Topics include the evolution of the EU's European Political Cooperation into the CFSP, its institutional framework, and the EU's relations with NATO, OSCE, etc.

**POS 133.5****REGIONAL SYSTEMS ON HUMAN RIGHTS IN EUROPE AND ASEAN****3 units**

This course compares the human rights practices of European and Southeast Asian regional organizations. Special focus is placed on how organizations develop within their respective jurisdictions human rights promotion and protection.

**POS 134****CONFLICT AND CONFLICT RESOLUTION****3 units**

(Old cat.no. POS 133)

This course explores the macro causes of conflict among nations, such as nationalism, militarism, alliance systems, and economic factors, as well as the micro causes—how the leader's motivation, beliefs, and perceptions play a critical role in the outbreak of war. The course also delves into the dilemma and consequences of nuclear war.

**POS 134.1****INTERNATIONAL NEGOTIATION AND CONFLICT RESOLUTION****3 units**

This course explores the tool for managing international conflict through various negotiation techniques, including the use of third party

intervention in facilitating conflict resolutions.

**POS 135****PHILIPPINE FOREIGN POLICY****3 units**

(Old cat.no. POS 139)

This course on foreign policies of different states examines the content and direction of the policies, identifies the actors and factors that shape them, traces the historical development of the policies, and analyzes the processes involved in foreign policy making.

**POS 135.1****JAPAN'S FOREIGN POLICY****3 units**

(Old cat.no. POS 139.3)

This course studies Japanese foreign relations from 522 to 1951 and a detailed analysis of post-Occupation foreign relations. Topics include an analysis of the dynamics of the Japanese foreign policy-making and implementing structures. Three sets of foreign relations are considered: Japan-US, Japan-China, and Japan-ASEAN.

**POS 135.2****UNITED STATES' FOREIGN POLICY****3 units**

(Old cat.no. POS 139.1)

This course is a study of the past and present foreign policy goals of the United States of America, focusing on foreign policy decision-making and the challenges policy-makers face in the post-Cold War era.

**POS 135.3****CHINA'S FOREIGN POLICY****3 units**

(Old cat.no. POS 139.4)

This course introduces China's foreign policy from a historical perspective covering the mid-



19<sup>th</sup> century, and the formation of the People's Republic, leading to the development of Chinese foreign policy and China's evolving participation in the international community.

**POS 135.4  
JAPAN IN EAST ASIA  
3 units**

This course introduces the dynamics of interactions among China, Japan, and Korea and the foreign policies of each country towards Southeast Asia. It discusses major issues of cooperation and conflict, such as territorial disputes, free trade agreements, and discourse on economic and political integration.

**POS 135.5  
EUROPEAN UNION  
FOREIGN POLICY  
3 units**

(Old cat.no. POS 139.2)  
This is an extensive analysis of instruments, institutions, and processes involved in the formulation of a European Union foreign policy, within the context of the historical development of the EU. Various methodologies are used to approach the subject including institutionalist, rational choice, and game theory.

**POS 135.6  
CHINA-JAPAN RELATIONS  
3 units**

(Old cat.no. POS 181.3)  
This course introduces the history of relations (political, diplomatic, economic, and cultural) between China and Japan. The course explores the dynamics of Sino-Japanese relations in times of conflict and peace.

**POS 136  
DIPLOMACY AND  
CONSULAR PRACTICE  
3 units**

(Old cat.no. POS 180.12)  
This course studies the origin, development, and current practice in the diplomatic and consular fields, with emphasis on matters relevant to Philippine foreign policy and international relations. Topics include negotiation – the diplomat's most important function – and principles of protocol and etiquette in modern international practice.

**POS 140  
CURRENT ISSUES AND  
PROBLEMS IN PHILIPPINE  
GOVERNMENT AND  
POLITICS  
3 units**

(Old cat.no. POS 160)  
This course examines the contemporary problems and issues in Philippine government and politics. It particularly focuses on today's numerous challenges in the effort of the Filipinos to consolidate their democratic gains since 1986.

**POS 140.1  
SPECIAL TOPICS IN  
PHILIPPINE POLITICS:  
PHILIPPINE ELECTORAL  
REFORMS  
3 units**

(Old cat.no. POS 180.19)  
This course examines the electoral landscape in the Philippines post- EDSA until the present: the system and processes, reform agenda, national and local electoral issues using different analytical frames and enriching the Philippine experience with lessons from electoral exercises around the world.

**POS 140.2  
SPECIAL TOPICS IN  
PHILIPPINE POLITICS:  
FILIPINO MIGRANTS AND  
GLOBAL HISTORY  
3 units**

(Old cat. no. POS 180.21)  
This course is a discussion of Philippine transborder migrations, specifically from the nineteenth century to the present, in the context of global history. It analyzes the concomitants of these migrations at various levels: the individual, family, and household formation, collective identities, and nation-states.

**POS 140.3  
SPECIAL TOPICS IN  
PHILIPPINE POLITICS:  
ISLAM, PHILIPPINE  
POLITICS, AND THE  
BANGSAMORO STRUGGLE  
FOR SELF-  
DETERMINATION  
3 units**

(Old cat.no. POS 180.23)  
This course studies the Bangsamoro struggle for self-determination and the dynamics of Islam and Philippine politics. Topics include the role of Islam in shaping the Moro identity, Philippine government policies that have further isolated the Bangsamoro, and the prospects for a peaceful resolution.

**POS 140.4  
SPECIAL TOPICS IN  
PHILIPPINE POLITICS:  
LEGAL ISSUES IN  
DEVELOPMENT  
3 units**

(Old cat.no. POS 180.6)  
This course examines the current legal issues concerning development in the Philippines. Relevant issues as manifested in legal controversies accompanying the development process are discussed. With a bias for



marginalized sectors, topics include housing and urban development, agrarian reform and rural development, and labor rights.

**POS 140.5  
SPECIAL TOPICS IN  
PHILIPPINE POLITICS:  
HUMAN RIGHTS**

**3 units**

(Old cat.no. POS 166)

This course is a descriptive and analytical study of human rights as a political-legal concept and as expressed in the 1987 Philippine Constitution, including an analysis of the interaction between the government, social groups, and the individual regarding the promotion and protection of these rights.

**POS 140.6  
SPECIAL TOPICS IN  
PHILIPPINE POLITICS:  
PEACE, ENVIRONMENT,  
AND CIVIL SOCIETY**

**3 units**

(Old cat. no. POS 133.1)

This course studies the physical environment of the Philippines and its problems in the context of underdevelopment. Topics include the social problems related to environment disasters, and the roles and programs of various members of civil society involved in the peace and environment arenas.

**POS 140.7  
SPECIAL TOPICS IN  
PHILIPPINE POLITICS:  
ADVOCACY & LOBBYING**

**3 units**

(Old cat.no. POS 180.11)

This course covers the Philippine Constitution, the legislative process in Congress and local legislative bodies, the role of the President and the Executive Branch in legislation, interest group articulation, the national budget process,

preparations for congressional committee hearings, and trends and issues in lobbying.

**POS 140.8  
SPECIAL TOPICS IN  
PHILIPPINE POLITICS:  
CURRENT ISSUES ON  
MINDANAO**

**3 units**

This course is a review of current issues in Mindanao as a site of contested development. These problems, which cut across different sectors, form a vicious cycle with poverty and government neglect. Students are introduced to these issues and form these on how these problems can be resolved.

**POS 141  
THE PHILIPPINE  
LEGISLATURE AND THE  
PRESIDENCY**

**3 units**

(Old cat.no. POS 161)

This course studies the relationship between the Chief Executive and the Legislature, including important executive and legislative decisions made during the Commonwealth period up to the present as case studies for the analysis of the executive-legislative relationship.

**POS 142  
LOCAL GOVERNMENT**

**3 units**

(Old cat.no. POS 163)

This course discusses the levels of local governments in the light of the Local Government Code, and the legislative acts that preceded it, with particular reference to their structure, operation, and relationship with the national government. Topics include local government problems such as planning, taxation, and personnel.

**POS 143  
PHILIPPINE JUDICIAL  
SYSTEM PRACTICE**

**3 units**

(Old cat.no. POS 162)

This course is a discussion of the historical development of the Philippine judicial system, and an examination of the present structure of the Philippine judiciary and the processes by which cases are heard and judgments rendered in the different judicial courts.

**POS 143.1  
THE ADMINISTRATION OF  
CRIMINAL JUSTICE AND  
THE RIGHTS OF THE  
ACCUSED**

**3 units**

(Old cat.no. POS 162.1)

This course studies the administration of criminal justice – the agencies involved, their relationships to each other, and their respective rules of procedure – with basis in international and domestic standards. Emphasis is on women and children who come into conflict with the law.

**POS 144  
PHILIPPINE AND  
FILIPINO/A POLITICAL  
CULTURES**

**3 units**

(Old cat. no. POS 159)

This course revisits political culture scholarship in the Philippine context. Topics include criticisms raised against this body of work and an evaluation of recent works that attempt to reinvigorate the notion of political culture without falling into the traps of essentialism, reductionism, and orientalism.

**POS 145  
PHILIPPINE-JAPANESE  
RELATIONS**

**3 units**

(Old cat.no. POS 181.1)

This survey course traces the development of Philippines-Japanese relations since the sixteenth century, focusing on political, economic, and cultural relations in the 1920s, through World War II, and the postwar period.

**POS 145.1  
DYNAMICS OF PHILIPPINE-JAPAN RELATIONS**

**3 units**

(Old cat.no. POS 181.4)

This survey course traces the development of Philippines-Japanese relations since the sixteenth century, focusing on political, economic, and cultural relations in the 1920s, through World War II, and the postwar period.

**POS 145.2  
PHILIPPINE-AMERICAN RELATIONS**

**3 units**

(Old cat. no. POS 140)

This course examines the major areas of cooperation and conflict and the nature of the bilateral relationship between the Philippines and the United States.

**POS 150  
PUBLIC LAW**

**3 units**

This course is designed to expose students to the study of the history, principles and theories of constitutional, administrative and human rights law and their application to government. Essential topics include the Presidential government, Separation of Powers, Human Rights and the Bills of Rights.

**POS 160  
QUALITATIVE METHODS IN THE SOCIAL SCIENCES**

**3 units**

(Old cat.no. POS 53)

This course introduces the qualitative research process, beginning with a discussion of the different forms, roles, and uses of qualitative research; moving through design, sampling, data collection, and analysis.

**POS 161  
QUANTITATIVE METHODS IN THE SOCIAL SCIENCES**

**3 units**

(Old cat. no. POS 55)

This course introduces the basic concepts, techniques, and operations used in quantitative research for the social sciences. The course provides an understanding of how survey research is conducted, analyzed, and used.

**POS 162  
HISTORY OF POLITICAL THEORY**

**3 units**

(Old cat.no. POS 60)

This course surveys political ideas and theories of the great thinkers that have influenced political debates through the ages: Plato, Aristotle, St. Augustine, St. Thomas Aquinas, Marsilio of Padua, Machiavelli, Bodin, Hobbes, Locke, Montesquieu, Rousseau, Burke, Bentham, de Tocqueville, John Stuart Mill, Hegel, and Marx.

**POS 163  
CONTEMPORARY POLITICAL THEORIES**

**3 units**

**Pre-requisite: POS 162**

(Old cat.no. POS 61)

This survey course examines major contemporary theories/ideologies: Marxism, communism, fascism, nationalism, democracy, liberalism, democratic socialism, welfare state, libertarianism, anarchism, feminism, and

environmentalism. It introduces political Islam and theories of justice.

**POS 163.1  
MARXISM IN GLOBAL POLITICS**

**3 units**

This course is a critical appraisal of the impact of Marxist theories on global politics and social movements. It examines Marxist theorizing and praxis in world historical junctures from the electoral successes of European Social Democrats to the anti-globalization movements of the 1990s.

**POS 164  
ASIAN POLITICAL THEORIES**

**3 units**

**Pre-requisite: POS 162**

(Old cat. no. POS 62)

This course studies the main currents of Asian/Philippine political thought in view of the increasing integration of the Philippines with its Asian neighbors. It looks at the contributions of Asian political thinkers and of Confucianism, Taoism, Buddhism, and Shinto.

**POS 165  
GENDER STUDIES**

**3 units**

(Old cat.no. POS 180.5)

The trivialization, marginalization and even homogenization of women's concerns are endemic in a patriarchal and male-centered society. This course is a study of the politics of gender where the status, concerns, and struggles of women are examined and analyzed.

**POS 165.1  
GENDER, GLOBALIZATION AND DEVELOPMENT**

**3 units**

(Old cat. no. POS 180.16)

This course studies development and globalization in the context of women's experiences and gender relations. Topics include the major feminist political traditions, the feminization of the global workforce, and the various dimensions of gender politics that affect women's relative positions in the political power structure.

**POS 165.2  
GENDER AND WOMEN'S  
HUMAN RIGHTS  
3 units**

(Old cat. no. POS 180.18)  
This course revolves around the politics of gender where the status, concerns, and struggles of women. Feminist analyses focus on domestic legislation and international codified laws on women's human rights.

**POS 165.3  
SEXUAL POLITICS: GLOBAL  
PERSPECTIVES  
3 units**

This course approaches gender and sexuality as historically, politically and culturally contingent rather than as natural expressions of a private self. It provides the historical and theoretical frameworks for understanding the rise of specific genders and sexualities in relation to psychoanalytic, philosophical, political and popular discourses.

**POS 190  
COMPARATIVE POLITICS  
3 units**

(Old cat. no. POS 194)  
This course introduces Comparative Politics, one of the major subfields of Political Science. Attention is given to both theoretical foundations of the subfield and empirical studies in various political and cultural settings.

**POS 190.1  
SPECIAL TOPICS IN  
COMPARATIVE POLITICS:  
CONSTRUCTING  
NATIONHOOD IN  
SOUTHEAST ASIA  
3 units**

(Old cat.no. POS 180.13)  
This is a thematic study of Southeast Asia in the twentieth century. Topics include the nationalist sentiments and independence movements in selected countries, dawning of a modern consciousness and its relationship to the rise of nationalism; and the challenge from ethnic minorities to official nationalisms.

**POS 190.2  
SPECIAL TOPICS IN  
COMPARATIVE POLITICS:  
PARTIES, INTEREST  
GROUPS, AND PUBLIC  
OPINION  
3 units**

(Old cat.no. POS 164)  
This course studies the types and structures of political parties and interest groups, their functions in the political system, and their strategy and tactics in aggregating and articulating interests and influencing public policy and controlling power.

**POS 190.3  
SPECIAL TOPICS IN  
COMPARATIVE POLITICS:  
POLITICAL  
SOCIALIZATION,  
COMMUNICATION, AND  
PARTICIPATION  
3 units**

(Old cat.no. POS 165)  
This course studies the different processes and interaction in civil society, adult participation in the political process, and flow of information between the government and citizens. The course examines the different types of political participation

and the behavior of citizens and government towards these political processes.

**POS 190.4  
SPECIAL TOPICS IN  
COMPARATIVE POLITICS:  
CITIZENSHIP  
3 units**

(Old cat. no. POS 180.9)  
This course tries to understand citizenship, citizenship-building, and democratization. Topics include the concepts and features of citizenship, evolution of the concepts, an analytical perspective on citizens' role in democratization, state-citizens relationship, and transliteration of citizenship in the context of differing cultures and its application at the local level.

**POS 190.5  
SPECIAL TOPICS IN  
COMPARATIVE POLITICS:  
SOCIAL MOVEMENTS AND  
CIVIL SOCIETY  
3 units**

(Old cat.no. POS 194.5)  
This course is a survey of the major theoretical perspectives in the study of social movements – their emergence, development, dynamics (success and demise), and impact. Topics include the theoretical and empirical problems and conceptual issues of these various perspectives or approaches.

**POS 191  
COMPARATIVE POLITICS  
(ASIA)  
3 units**

(Old cat. no. POS 194.1)  
This course studies the theoretical foundations for the study of comparative government and politics in Asia. The course considers a number of theoretical approaches in dealing with data, from the traditional to

new approaches, and assesses their value in understanding government and politics in Asia.

**POS 191.1  
COMPARATIVE  
MILITARIES IN ASIA  
3 units**

The roles of the armed forces in Asia in the maintenance of security are evolving. Using a socio-historical perspective, this course traces the development of Asian armed forces and analyzes the issues of emerging military regimes, democratic control of the armed forces, asymmetric warfare, etc.

**POS 192  
COMPARATIVE POLITICS  
(EUROPE)  
3 units**

(Old cat.no. POS 194.3)  
This course introduces the field of comparative politics with emphasis on the governments of Europe. The course concludes with a detailed analysis of how the different traditional domestic processes and policies of these countries affect their integration into the European Union.

**POS 194  
POLITICAL DEVELOPMENT  
3 units**

(Old cat.no. POS 195)  
This course falls under POS 195, the umbrella code number of courses on the political development and modernization of particular states. This course deals with processes and characteristics that transform a traditional political system into a modern one.

**POS 194.1  
MODERNIZATION OF  
JAPAN**

**3 units**

(Old cat. no. POS 180.7)  
This course analyzes modernization as experienced by Japan. This includes developments during the Tokugawa and Meiji periods: nationalism and militarism, post-war recovery, and re-orientation. This course explores the on-going debate on when Japan really modernized—before or after Meiji; or before or after World War II?

**POS 195  
DEMOCRATIZATION AND  
THE DEVELOPING STATES  
3 units**

(Old cat. no. POS 180.14)  
This course introduces democratic change and upheaval in the *third world* in the context of three overarching processes: 1) the transition from authoritarianism to democratization; 2) the economic transformations brought about by liberalization and globalization; and 3) accompanying patterns of social change and development.

**POS 195.1  
DEMOCRATIZATION  
PROCESS IN EAST AND  
SOUTHEAST ASIA**

**3 units**

(Old cat.no. POS 180.1)  
This course provides a conceptual knowledge of “democracy” and “democratization.” This course sheds light on the factors and forces of the democratization process in Asia. Students are provided with a comprehensive perspective towards democratization by examining the commonalities and differences between the

democratization processes of each country.

**POS 195.2  
DEMOCRACY AND SOCIAL  
ACCOUNTABILITY**

**3 units**

(Old cat.no. POS 180.22)  
This course introduces the concept of social accountability, which promises a more sustained means of making power accountable; it is considered necessary in addressing “the three fundamental threats to the construction of good governance and rule of law,” namely, corruption, clientilism, and capture.

**POS 197  
GOVERNMENT AND  
POLITICS OF THE  
EUROPEAN UNION  
3 units**

(Old cat.no. POS 196.3)  
This course introduces the policies, institutions and processes of the European Union, the EU’s historical development, legal framework and the interrelationship among its various actors. Vital EU policies are discussed in terms of their impact on other regions and countries, especially Southeast Asia and the Philippines.

**POS 197.1  
GOVERNMENT AND  
POLITICS OF JAPAN  
3 units**

(Old cat.no. POS 196.2)  
This course introduces the intricacies of the Japanese government and political system. The course begins with the antecedents to the post World War II Japanese political environment and concludes with a speculative section on future directions of Japanese state development and its role in society.

**POS 197.2**  
**GOVERNMENT AND**  
**POLITICS OF CHINA**  
**3 units**

(Old cat.no. POS 196.1)

This course introduces Chinese government and politics. Topics include the basis of Confucian/ Legalist Empire and its failure to modernize, the rise of the Communist Party, Maoism and China under Mao, Deng Xiaoping and the post-Mao reforms, the political economy, the military, and contemporary issues.

**POS 197.3**  
**GOVERNMENT AND**  
**POLITICS OF THE UNITED**  
**STATES**  
**3 units**

(Old cat.no. POS 196)

This course deals with the political systems of individual states. These are implicitly taken in comparison with the political system of the Philippines.

**POS 197.4**  
**INTRODUCTION TO ASEAN**  
**3 units**

The course begins with ASEAN's birth and proceeds with the evolution of its roles and interactions from the Cold War. It explores ASEAN's organizational development, expansion, institutionalization, identity building and responses to further integration through the ASEAN Charter, ASEAN Community and the ASEAN Free Trade Area.

**POS 198**  
**RELIGION AND POLITICS**  
**3 units**

The course deals with the various ways religious personalities, institutions and movements relate with and affect the state, political processes and policy-making. Special emphasis is given to the

roles religion-based political agents have in democratization, conflict-resolution and peace-building.

**POS 200**  
**ADVANCED POLITICAL**  
**ANALYSIS AND**  
**METHODOLOGY**  
**3 units**

This course examines key theoretical, epistemological, and methodological issues in political science. Its premise is that it is both necessary and essential to become aware of the principles underlying research, and conversant with the debates over the foundations of the social and human sciences.

**POS 220**  
**GRADUATE SEMINAR IN**  
**PUBLIC POLICY**  
**3 units**

This course introduces the different concepts, theories, structures, approaches, and models in the study of public policy. Policy analysis through a seminar paper and its presentation is the capstone of the course.

**POS 240**  
**GRADUATE SEMINAR IN**  
**INTERNATIONAL**  
**RELATIONS**  
**3 units**

This course offers an overview of current theory, topics, and research in the Political Science sub-field of International Relations (IR). It introduces students to the analytic and normative study of international relations; and surveys competing IR theories covering the structures, processes, and issues in IR.

**POS 260**  
**GRADUATE SEMINAR IN**  
**COMPARATIVE POLITICS**  
**3 units**

This is a course on the approaches, methods, and theories in comparative politics. Focus is on the changing and evolving theoretical approaches, paradigms, frameworks, epistemology in the field; as well as *what* political comparativists study and *how* and *in what manner* they conduct their studies.

**POS 299A**  
**THESIS WRITING**  
**0 units**

**POS 299B**  
**THESIS WRITING**  
**0 units**

**SGORDEV**  
**ORGANIZATIONAL**  
**DEVELOPMENT**  
**3 units**

The course provides students with theories, strategies, and tools in change management in the context of organization development in the public sector. This course enables students to design appropriate strategies for addressing the power of the status quo in the bureaucracy, managing resistance, and sustaining the gains from change initiatives.

**SGPUBFIN**  
**PUBLIC FINANCE AND**  
**BUDGETING**  
**3 units**

The course provides a working knowledge of public finance concepts and processes. Focus is on actual experience in the conduct of fiscal policy and the budget process. Effort is directed at presenting public finance and budgeting as they relate to current issues and national goals.

**SGINTMGT  
INTEGRATED PROGRAM  
MANAGEMENT**

**3 units**

The course introduces students to tools, techniques and methodologies for the following: the systematic identification of problems in governance and law enforcement, the selection of alternative solutions, the program definition of the chosen alternative, the planning for comprehensive execution, the formulation of the program framework for objective and effective monitoring, and the evaluation and operations results analysis.

**SGLOGGOV  
LOCAL GOVERNANCE**  
**3 units**

The course provides students with basic principles and operative policies of the Local Government Code coupled with practical and experiential knowledge on the management and operations of local government units as development agents and areas for change and reform.

**SGSTATMAN  
STATISTICS OF PUBLIC  
MANAGEMENT**

**3 units**

The course equips students with the basic statistical techniques required in the systematic and empirical analysis of public policy. The course enables students to organize and summarize data, select appropriate tests, interpret results, and use

computer software for statistical analysis and interpretation.

**SGENVIMA  
ENVIRONMENTAL  
MANAGEMENT**

**3 units**

This course aims to provide a framework for analyzing environmental problems and approaches for designing effective environmental management and regulation programs. The course addresses these concerns: (1) extent to minimize pollution, (2) extent to which government can address environmental problems, (3) way in which to achieve effective collaboration between the public and private sectors to address environmental problems.





Room 308 Ricardo & Dr. Rosita Leong Hall  
(632) 426-6001 loc. 5260/5261/5262  
fax : (632) 426-5905  
psychology.soss@ateneo.edu  
www.ateneo.edu/ls/soss/psychology

## PSYCHOLOGY

**Ma. Regina M. Hechanova**  
*Chair*

**Faculty**  
***Professors***

Ma. Regina M. Hechanova  
Anna Miren Gonzalez-Intal  
Cristina J. Montiel

***Associate Professors***

Edith Liane P. Alampay  
Karina Therese Galang-Fernandez  
Edna P. Franco  
Ma. Elizabeth J. Macapagal  
Mira Alexis P. Ofreneo  
Lota A. Teh

***Assistant Professors***

Arsenio S. Alianan, Jr.  
Mendiola T. Calleja  
Maria Isabel Echanis-Melgar

***Instructor***

Lorelie Banzon-Librojo  
Nico A. Canoy  
Lourdes Joy T. Galvez-Tan  
Melissa R. Garabiles  
Anna Marie D. Topacio  
Pocholo Andrew E. Velasquez

***Lecturers***

Shaily M. Anand  
Angelica Issah V. Ang  
Patrick Gerard F. Balamiento  
Marcial Orlando A. Balgos, Jr.  
Katrine S. Bunagan  
Leslie Charmaine B. Co Kehyeng  
Roger Champoux, S.J.  
Maria Victoria T. Cortez  
Manuel D. Cuenca, Jr.  
Mary Angeline A. Daganzo

(cont'd)

The Department of Psychology is a community of individuals committed to the pursuit of excellence in the areas of teaching and formation, research and creation of knowledge, and community outreach services, including professional practice and training.

It is a community of faculty members, students, and staff who are whole persons—scientifically grounded, compassionate, sensitive, with genuine respect for people, and imbued with a lived spirituality that is responsive to the needs of one another, the Ateneo system, and cultural realities.

The Department of Psychology is committed to the pursuit of scientific truth and excellence both in academic endeavors and professional practice. Combining solid foundations of psychological theories with active practice, it constantly aims to be an agent of change that brings about greater fullness of life among individuals, organizations, and communities in Philippine society and the world at large.

To fulfill this mission, the Department offers a range of undergraduate and graduate programs designed to provide students with rigorous training for scholarship and practice in Psychology. These academic programs prepare them for the many and complex challenges that Filipino psychologists face in

(cont'd)

***Lecturers***

Gary Aguedo G. Faustino  
Feric Gaius L. Galvez  
Jeremy Peter Y. Gatmaitan  
Bernadette S. Go  
Ma. Angelica V. Go  
Emerald Jay D. Ilac  
Alyda Yasmin A. Keh  
Florence T. Ladion  
Mary Edilynne A. Lantin  
Lorenzo Z. Lerma  
Emily Ann I. Lombos  
Gilda D. Lopez  
Melissa V. Mariano  
Samantha Erika N. Mendez  
Rizason G.T. Ng  
Jocelyn M. Nolasco  
Josephine P. Perez  
Ivan Jacob A. Pesigan  
Maria Lourdes L. Ramos  
Pia Anna P. Ramos  
Melissa S. Reyes  
Johann Andrew V. Sagmit  
Karel San Juan, S.J.  
Tyrone Reden L. Sy  
Nilo E. Tanalega, S.J.  
Welison Evenston G. Ty  
Audris P. Umel  
Vanessa C. Villaluz

**Faculty of Other Departments**

***Professor Emeritus***

Fernando N. Zialcita

***Professors***

Antonette P. Angeles  
Queena L. Chua  
Fr. Bienvenido F. Nebres, SJ

***Associate Professor***

Ma. Regina Justina E. Estuar

the realms of teaching, research, practice, service, and advocacy.

At the undergraduate level, the Department offers two degrees: the Bachelor of Arts (AB) in Psychology and the Bachelor of Science (BS) in Psychology. Both programs train students in the scientific study of individual and group behavior and the mental processes. Students are also prepared for general careers in business, teaching and further specialization in the different fields of psychology: research, counseling, therapy, assessment, industrial psychology, organization development, and developmental psychology. For those in the BS Psy track wishing to pursue a career in medicine, the BS course can be a pre-med preparation before getting into medicine proper.

The Department of Psychology offers undergraduate degrees designed to provide students with solid training for the myriad challenges, which lie ahead for psychologists in the realms of teaching, research, practice, service, and advocacy. Students also benefit from its research, extension and practical application arm: the Center for Organizational Research and Development (CORD). Students of both the AB in Psychology and the BS in Psychology engage themselves in the scientific study of individual and group behavior. The programs prepare them for careers in business and management, teaching, and for further specialization in the different fields of psychology. The rigorous BS track serves as a stepping-stone to pre-Medicine courses and later to Medicine proper.

## BACHELOR OF ARTS, MAJOR IN PSYCHOLOGY

The AB program offers opportunities for students to take a variety of electives in humanities, business management, computer science, and other areas.

### FIRST YEAR

<u>First Semester</u>		<u>Units</u>	<u>Second Semester</u>		<u>Units</u>
EN 11	Communication in English I	3	EN 12	Communication in English II	3
LIT 13	Introduction to Fiction	3	LIT 14	Introduction to Poetry and Drama	3
MA 11	Modern Mathematics I	3	MA 12	Modern Mathematics II	3
FIL 11	Sining ng Pakikipagtalastasansa Filipino I	3	FIL 12	Sining ng Pakikipagtalastasansa Filipino II	3
NATSCI 1	Ps1/Bi7/Bi9/Es10/Ch1 (Choose one)	4	NATSCI 2	Ps1/Bi7/Bi9/Es10/Ch1 (Choose one)	4
PE 1	Physical Education	(2)	PE 2	Physical Education	(2)
INTAC 1	Introduction to Ateneo Culture and Traditions	(0)	INTAC 2	Introduction to Ateneo Culture and Traditions	(0)
<i>Total:</i>		16	<i>Total:</i>		16

### SECOND YEAR

<u>First Semester</u>		<u>Units</u>	<u>Second Semester</u>		<u>Units</u>
SA 21	Introduction to Sociology and Anthropology	3	HI 16/Hi 18	Asian History/Western History (Choose one)	3
TH 121	An Introduction to Doing a Catholic Theology	3	PSY 103	Developmental Psychology	3
FIL 14	Panitikan ng Pilipinas	3	PSY 104	Personality	3
PSY 101	General Psychology	3	SCI 10	Science and Society	3
PSY 116.1	Psychological Statistics, Lecture	3	PSY 105.1	Experimental Psychology, Lecture	3
PSY 116.2	Psychological Statistics, Laboratory	2	PSY 105.2	Experimental Psychology, Laboratory	2
PE 3	Physical Education	(2)	PE 4	Physical Education	(2)
NSTP 1	National Service Training Program	(3)	NSTP 2	National Service Training Program	(3)
<i>Total:</i>		17	<i>Total:</i>		17

### THIRD YEAR

<u>First Semester</u>		<u>Units</u>	<u>Second Semester</u>		<u>Units</u>
PH 101	Philosophy of the Human Person I	3	PH 102	Philosophy of the Human Person II	3
TH 131	Marriage, Family Life and Human Sexuality in a Catholic Perspective	3	PSY 107	Learning And Cognitive Psychology	3
PSY 106	Physiological Psychology	3	PSY 118	Industrial Psychology	3
PSY 108	Social Psychology	3	PSY 113	Abnormal Psychology	3
PSY 117.1	Psychological Assessment, Lecture	3	PSY 119	Research Methods	3
PSY 117.2	Psychological Assessment, Laboratory	2	Hi 165	Rizal and the Emergence of the Philippine Nation	3
FLC	Foreign Language and Culture	3	<i>Total:</i>		18
<i>Total:</i>		20			

### FOURTH YEAR

<u>Summer</u>	<u>Units</u>
Major Elective* or PSY 111Practicum	3
<i>Total:</i>	3

<u>First Semester</u>		<u>Units</u>	<u>Second Semester</u>		<u>Units</u>
PH 103/	Philosophy of Religion/		PH 103/	Philosophy of Religion/	
PH 104	Foundations of Moral Value	3	PH 104	Foundations of Moral Value	3
TH 141/	A Theology of the Catholic Social Vision/		TH 141/	A Theology of the Catholic Social Vision/	
TH 151	The Catholic Commitment of Today's Filipino: A Synthesis	3	TH 151	The Catholic Commitment of Today's Filipino: A Synthesis	3
HI 166	Philippine History	3	POS 100	Politics and Governance	3
PSY 112	Research in Psychology I	3	PSY 114	Research in Psychology II	3
MAJOR ELECTIVE*		3	EC 102	Basic Economics, Agrarian Reform, and Taxation	3
FREE ELECTIVE		3	FREE ELECTIVE		3
<i>Total:</i>		18	<i>Total:</i>		18

\*Choice among PSY 115 Series: Current issues in Psychology  
Total Number of Academic Units: 143  
Curriculum Effective Freshman Batch SY 2012-2013

## BACHELOR OF SCIENCE, MAJOR IN PSYCHOLOGY

The BS program functions as a training ground for students who want to combine their interests in human behavior and the natural sciences, such as biology, zoology, physics, chemistry, and environmental science. The program may serve as preparation for further studies in medicine.

### FIRST YEAR

<u>First Semester</u>		<u>Units</u>	<u>Second Semester</u>		<u>Units</u>
EN 11	Communication in English I	3	EN 12	Communication in English II	3
LIT 13	Introduction to Fiction	3	LIT 14	Introduction to Poetry and Drama	3
MA 11	Modern Mathematics I	3	MA 12	Modern Mathematics II	3
FIL 11	Sining ng Pakikipagtalastasansa Filipino I	3	FIL 12	Sining ng Pakikipagtalastasansa Filipino II	3
BI 100	General Biology, Lecture	3	BI 101	General Biology, Lecture	3
BI 100.1	General Biology, Laboratory	2	BI 101.1	General Biology, Laboratory	2
PE 1	Physical Education	(2)	PE 2	Physical Education	(2)
INTAC 1	Introduction to Ateneo Culture and Traditions	(0)	INTAC 2	Introduction to Ateneo Culture and Traditions	(0)
		<b>Total: 17</b>			<b>Total: 17</b>

### SECOND YEAR

<u>Summer</u>		<u>Units</u>
FIL 14	Panitikan ng Pilipinas	3
SA 21	Introduction to Sociology and Anthropology	3
		<b>Total: 6</b>

<u>First Semester</u>		<u>Units</u>	<u>Second Semester</u>		<u>Units</u>
FLC	Foreign Language and Culture	3	HI 16/HI 18	Asian History/Western History	3
PSY 101	General Psychology	3	TH 121	An Introduction to Doing a Catholic Theology	3
PSY 116.1	Psychological Statistics: Lecture	3	PSY 103	Developmental Psychology	3
PSY 116.2	Psychological Statistics: Laboratory	2	PSY 104	Personality	3
CH 7	General Chemistry I, Lecture	3	PSY 105.1	Experimental Psychology: Lecture	3
CH 8	General Chemistry I, Laboratory	2	PSY 105.2	Experimental Psychology: Laboratory	2
EC 102	Basic Economics, Agrarian Reform, And Taxation	3	PE 4	Physical Education	(2)
PE 3	Physical Education	(2)	NSTP 2	National Service Training Program	(3)
NSTP 1	National Service Training Program	(3)			<b>Total: 17</b>
		<b>Total: 19</b>			

### THIRD YEAR

<u>First Semester</u>		<u>Units</u>	<u>Second Semester</u>		<u>Units</u>
PH 101	Philosophy of the Human Person I	3	PH 102	Philosophy of the Human Person II	3
TH 131	Marriage, Family Life and Human Sexuality in a Catholic Perspective	3	PSY 118	Industrial Psychology	3
PSY 108	Social Psychology	3	PSY 113	Abnormal Psychology	3
PSY 117.1	Psychological Assessment: Lecture	3	PSY 119	Research Methods	3
PSY 117.2	Psychological Assessment: Laboratory	2	HI 165	Rizal and the Emergence of the Philippine Nation	3
PSY 106	Physiological Psychology	3	CH 21*	Organic Chemistry I, Lecture	3
PSY 107	Learning and Cognitive Psychology	3	CH 22.2*	Organic Chemistry I, Laboratory	2
		<b>Total: 20</b>			<b>Total: 20</b>

### FOURTH YEAR

<u>Summer</u>		<u>Units</u>
Major Elective** or PSY 111 Practicum		3
		<b>Total: 3</b>

<u>First Semester</u>		<u>Units</u>	<u>Second Semester</u>		<u>Units</u>
PH 103/	Philosophy of Religion/		PH 103/	Philosophy of Religion/	
PH 104	Foundations of Moral Value	3	PH 104	Foundations of Moral Value	3
TH 141/	A Theology of the Catholic Social Vision/		TH 141/	A Theology of the Catholic Social Vision/	
TH 151	The Catholic Commitment of Today's Filipino: A Synthesis	3	TH 151	The Catholic Commitment of Today's Filipino: A Synthesis	3
HI 166	Philippine History	3	PSY 114	Research in Psychology II	3
PSY 112	Research in Psychology I	3	POS 100	Politics and Governance	3
	Any 5-unit Nat Sci	5	FREE ELECTIVE		3
MAJOR ELECTIVE**		3	FREE ELECTIVE		3
		<b>Total: 20</b>			<b>Total: 18</b>

\*Or any 5-unit Nat Sci course

\*\* Choice among PSY 115 Series: Current issues in Psychology  
Total Number of Academic Units: 157  
Curriculum Effective Freshman Batch SY 2012-2013

## COURSE OFFERINGS

### **PSY 101**

#### **GENERAL PSYCHOLOGY**

**3 units**

This course is an overview of the field of psychology with an introduction to the approaches and theories of human behavior. Scientific methods and skills, useful in formulating solutions to everyday human problems, are explored. Personal development is facilitated through classroom activities and peer interaction.

### **PSY 103**

#### **DEVELOPMENTAL PSYCHOLOGY**

**3 units**

**Pre-requisite: PSY 101**

This course is a study of human development throughout the life span in the areas of physical, social, cognitive, emotional, and moral development. Major developmental theories are tackled. Emphasis is given to the system perspective and in the interactive dimensions of human development, particularly in the Filipino setting.

### **PSY 104**

#### **PERSONALITY**

**3 units**

**Pre-requisite: PSY 101**

This course covers a survey of the major theories of personality and the theoretical and practical issues involved in the scientific study of personality formation and dynamics.

### **PSY 105.1**

#### **EXPERIMENTAL PSYCHOLOGY: LECTURE**

**3 units**

**Pre-requisite: PSY 101**

This course deals with the philosophy and methods of science focusing on experimentation in the investigation of problems and issues in psychology. The

students are expected to design and conduct experiments in psychology, write research reports, and present and defend the findings of the experiment.

### **PSY 105.2**

#### **EXPERIMENTAL PSYCHOLOGY: LABORATORY**

**2 units**

**Pre-requisite: PSY 101**

This course studies the philosophy and methods of science focusing on experimentation in the investigation of problems and issues in psychology. The students are expected to design and conduct experiments in psychology, write research reports, and present and defend the findings of the experiment.

### **PSY 106**

#### **PHYSIOLOGICAL PSYCHOLOGY**

**3 units**

**Pre-requisite: PSY 101**

This course is a physiological approach to the study of human behavior including basic concepts and findings in neuroanatomy and biopsychology, with special emphasis on brain-body and brain-behavior relationships.

### **PSY 107**

#### **LEARNING AND COGNITIVE PSYCHOLOGY**

**3 units**

**Pre-requisite: PSY 101**

This course is a study of important cognitive abilities including sensation, perception, attention, memory and representation, language and thinking.

### **PSY 108**

#### **SOCIAL PSYCHOLOGY**

**3 units**

**Pre-requisite: PSY 101**

This course is a scientific study of human social behavior: how and why we think, feel, behave, and relate with one another in social situations. Major theories, concepts, and empirical findings in social psychology are studied. Social behavior and phenomena in the Philippine setting are also examined from the social psychological perspective.

### **PSY 111**

#### **PRACTICUM**

**3 units**

**Pre-requisite: PSY 101**

This application course taken during the summer term exposes students to the different sectors in which psychology is practiced as a profession, such as education, industry, medical, government, and non-governmental organizations. Students complete a total of 150 hours of practicum work in one or more of the above settings.

### **PSY 112**

#### **RESEARCH IN PSYCHOLOGY I**

**3 units**

**Pre-requisite: PSY 101**

This research methods course trains students in psychological research, from choosing a relevant problem topic, reviewing the literature, postulating a conceptual framework, and planning for methodology and data analysis. The output is a mature research proposal that is ethically sound and culturally sensitive.

### **PSY 113**

#### **ABNORMAL PSYCHOLOGY**

**3 units**

**Pre-requisite: PSY 101**

This course studies the concepts, theories, research findings, and methodologies that form the basis for clinical assessment and psychological intervention. Topics

include the nature, cause, and possible interventions of psychological disorders; nomenclature and classifications of mental disorders; and indigenous concepts of abnormality and abnormal behavior.

**PSY 114**  
**RESEARCH IN**  
**PSYCHOLOGY II**  
**3 units**

**Pre-requisite: PSY 101**

This is a follow-through course to PSY 112 and is the implementation and completion phase of the students' research studies. The students are expected to complete and defend the results, discussion, and conclusions of their empirical researches and submit well-written, scholarly, and high quality research papers.

**PSY 115.1**  
**CURRENT ISSUES IN**  
**PSYCHOLOGY: DYNAMICS OF**  
**GROUPS AND**  
**ORGANIZATIONS**  
**3 units**

**Pre-requisite: PSY 101**

This course intends to prepare students who will be involved in facilitating and/or managing teams and organizations. The course provides an understanding of the effective and ineffective behaviors, processes and underlying dynamics of group functioning.

**PSY 115.2**  
**CURRENT ISSUES IN**  
**PSYCHOLOGY: COUNSELING**  
**PSYCHOLOGY**  
**3 units**

**Pre-requisite: PSY 101**

This course provides an overview of the knowledge, skills, and attitude essential to the practice of counseling. The stages of the counseling process are introduced. The different counseling

theories/psychotherapeutic models, together with the techniques and procedures that were developed based on these theories, are discussed.

**PSY 115.3**  
**CURRENT ISSUES IN**  
**PSYCHOLOGY:**  
**EDUCATIONAL**  
**PSYCHOLOGY**  
**3 units**

**Pre-requisite: PSY 101**

This course orients students to psychological principles, theories, and methodologies in educational applications and practices, and to issues and problems of teaching and learning in classroom settings. This course is a study of learning environments, assessment of learning, and teaching/learning processes are discussed in the light of analyses of the various factors affecting development, learning, and behavior.

**PSY 115.4**  
**CURRENT ISSUES IN**  
**PSYCHOLOGY: FILIPINO**  
**PSYCHOLOGY**  
**(SIKOLOHIYANG PILIPINO)**  
**3 units**

**Pre-requisite: PSY 101**

This course provides the student with a practical, indigenized, and culture-based application of the concepts learned in the various fields of Psychology. The levels of *kapwa* and the various indigenous Filipino qualitative research methods are highlighted, followed by a review of the status of particular fields of Philippine Psychology.

**PSY 115.5**  
**CURRENT ISSUES IN**  
**PSYCHOLOGY: HYPNOSIS**  
**AND HYPNOTHERAPY**  
**3 units**

**Pre-requisite: PSY 101**

This course is a scientific investigation of the exciting field of hypnosis and hypnotherapy as

practiced in modern times to enhance one's "bodymindspirit" resources and potentials for the advancement of chosen biopsychospiritual goals. This course provides many opportunities to experience hypnosis and its many characteristics.

**PSY 115.6**  
**CURRENT ISSUES IN**  
**PSYCHOLOGY: GENDER AND**  
**SEXUALITY**  
**3 units**

**Pre-requisite: PSY 101**

This course tackles the psychological conceptions of gender and how it manifests itself in intimate human relationships and sexuality. It delves into the meanings of gender and how gender affects intimate relations, sexual attitudes, and sexual behaviors. It also probes into the diversity of human relationships by examining heterosexual, gay, lesbian, bisexual, and transgender lives.

**PSY 115.7**  
**CURRENT ISSUES IN**  
**PSYCHOLOGY: PEACE**  
**PSYCHOLOGY**  
**3 units**

**Pre-requisite: PSY 101**

This is a seminar course on the social psychological aspects of peace, conflict, and violence. The course delves into key concepts, themes, theories, and practices that define peace psychology in the 21<sup>st</sup> century. The course seeks to create social awareness and personal sensitivity to issues of social justice and peace.

**PSY 115.8**  
**CURRENT ISSUES IN**  
**PSYCHOLOGY: POLITICAL**  
**PSYCHOLOGY**  
**3 units**

**Pre-requisite: PSY 101**

This course examines the relationship between political and psychological processes. It focuses



on the role of human thought, emotion, and behavior in politics and examines the psychological processes and behaviors of individuals and groups engaged in power situations.

**PSY 115.9  
CURRENT ISSUES IN  
PSYCHOLOGY:  
INFORMATION AND  
COMMUNICATION  
TECHNOLOGIES (ICTs) AND  
PSYCHOLOGICAL  
DEVELOPMENT**

**3 units**

**Pre-requisite: PSY 101**

This course presents the impact of technology from a psychological and development perspective. Students learn how various aspects of human development in childhood, adolescence, and adulthood are influenced by and negotiated in various media technologies.

**PSY 115.10  
CURRENT ISSUES IN  
PSYCHOLOGY:  
RECRUITMENT AND  
SELECTION**

**3 units**

**Pre-requisite: PSY 101**

This course equips the students with basic knowledge and skills on human resources, planning, recruitment, and selection. It examines the different modes of identifying and sourcing employees needed by the organization and presents the intricacies of the talent acquisition process.

**PSY 115.11  
CURRENT ISSUES IN  
PSYCHOLOGY: POSITIVE  
PSYCHOLOGY**

**3 units**

**Pre-requisite: PSY 101**

This course focuses on the research findings in the major areas of positive psychology especially positive emotional states and processes; positive

cognitive states and processes; optimal experiences; prosocial behavior; and positive environments.

**PSY 115.12  
CURRENT ISSUES IN  
PSYCHOLOGY: MEDIA  
PSYCHOLOGY**

**3 units**

**Pre-requisite: PSY 101**

This course examines the impact of mass media on human behavior. It familiarizes students with the psychology of media uses, processes, effects, and applications. Essentially, it aims to provide students with a thorough grounding in theory and research and an appreciation of the emerging field of media psychology.

**PSY 115.13  
CURRENT ISSUES IN  
PSYCHOLOGY: LEADERSHIP**

**3 units**

**Pre-requisite: PSY 101**

The course focuses on the psychology of leadership in organizations. It deals with (1) contemporary perspectives on the psychology of leadership, (2) the dynamics of effective leadership in the Philippine setting, and (3) attitudes, skills, and behaviors that need to be developed for effective leadership.

**PSY 115.14  
CURRENT ISSUES IN  
PSYCHOLOGY:  
ENVIRONMENTAL  
PSYCHOLOGY**

**3 units**

**Pre-requisite: PSY 101**

This course tackles some of the most pressing environmental issues, with emphasis on the context and state of the Philippine environment. It explores how individual and collective human behaviors have hurt the environment. The course provides an overview of the theoretical and

practical tools of psychology applicable to solutions.

**PSY 115.15  
CURRENT ISSUES IN  
PSYCHOLOGY: SPORT  
PSYCHOLOGY**

**3 units**

**Pre-requisite: PSY 101**

This course studies how psychological factors affect a person's motor performance in sport and exercise and how in turn, participating in physical activity affects a person's psychological development. The course examines the psychological theories and research that have relevance to the study of motor behavior in exercise and sport environments.

**PSY 115.16  
CURRENT ISSUES IN  
PSYCHOLOGY: MANAGING  
KNOWLEDGE-BASED  
TRAINING**

**3 units**

**Pre-requisite: PSY 101**

This course provides learners with an overview of the training and development process in the workplace. Using theories of learning and characteristics of adult learning, it aims to provide students with skills in conducting training needs analysis, designing, facilitating, administering and evaluating knowledge-based training programs.

**PSY 115.17  
CURRENT ISSUES IN  
PSYCHOLOGY:  
INTRODUCTION TO  
ASSESSMENT AND  
MANAGEMENT OF  
DEVELOPMENTAL  
DISABILITIES**

**3 units**

**Pre-requisites: PSY 117.1**

**PSY117.2 or any assessment  
course or human development  
course or PSY113**



This course presents a broad overview of developmental disabilities (i.e. Intellectual Disabilities, Autism Spectrum Disorder, Cerebral Palsy, AD/HD, and Learning Disabilities). It provides an opportunity for students to better understand the unique strengths and challenges of individuals through strategic assessment based on allowed competencies/practice parameters.

**PSY 115.18**  
**CURRENT ISSUES IN**  
**PSYCHOLOGY: ASIAN**  
**PSYCHOLOGY**  
**3 units**

This is a discussion course that examines selected psychological behaviors and processes in the context of Asian culture. Students identify cultural values and contexts that shape parenting, learning, emotions, mental health, marriage, politics, work motivation, wellbeing and leadership.

**PSY 115.19**  
**CURRENT ISSUES IN**  
**PSYCHOLOGY: HEALTH**  
**PSYCHOLOGY**  
**3 units**

This course applies to psychological principles and processes to the scientific study of health, illness and health-related behaviors. It focuses on how biological, psychological, social and cultural factors interact with, influence and affect health and illness.

**PSY 116.1**  
**PSYCHOLOGICAL**  
**STATISTICS, LECTURE**  
**3 units**

This course introduces the students to the basic concepts and methods of descriptive and inferential statistics. It is designed to enable the student to gain the necessary knowledge, skills, and appreciation of using statistics in

organizing, analyzing, and interpreting quantitative data obtained from psychological research.

**PSY 116.2**  
**PSYCHOLOGICAL**  
**STATISTICS, LABORATORY**  
**2 units**

This course introduces the students to the basic concepts and methods of descriptive and inferential statistics. It is designed to enable the student to gain the necessary knowledge, skills, and appreciation of using statistics in organizing, analyzing, and interpreting quantitative data obtained from psychological research.

**PSY 117.1**  
**PSYCHOLOGICAL**  
**ASSESSMENT, LECTURE**  
**3 units**

**Pre-requisite: PSY 101**  
This course is an orientation to the rudiments of psychological testing. The basic principles, methods, current trends, issues, and ethics of psychological testing are tackled. The course involves a review of the basic psychometric principles that apply to different types of psychological tests.

**PSY 117.2**  
**PSYCHOLOGICAL**  
**ASSESSMENT, LABORATORY**  
**2 units**

**Pre-requisite: PSY 101**  
This course is an orientation to the rudiments of psychological testing. The basic principles, methods, current trends, issues, and ethics of psychological testing are tackled. The course involves a review of the basic psychometric principles that apply to different types of psychological tests.

**PSY 118**  
**INDUSTRIAL PSYCHOLOGY**  
**3 units**

**Pre-requisite: PSY 101**

This course introduces Industrial-Organizational Psychology, which is concerned with people's attitudes, behavior, cognitions, emotions, and personality at work, particularly in groups. It presents scientifically-based psychological principles and research methods utilized by industrial psychologists to improve the effectiveness and fairness of human resource management decisions.

**PSY 119**  
**RESEARCH METHODS**  
**3 units**

**Pre-requisite: PSY 101**  
This course introduces the students to qualitative and survey research in psychology using the most widely used research methods in the field. This course covers theory and epistemology behind qualitative and quantitative research, the handling of textual data, including online or internet documents, and visual data.

G/F Ricardo & Dr. Rosita Leong Hall  
(632) 426-6001 loc. 5270/5271  
fax: (632) 426-5990  
socioanthro.soss@ateneo.edu  
www.admu.edu.ph/ls/soss/socio-anthro

# SOCIOLOGY AND ANTHROPOLOGY

**Ricardo G. Abad**  
*Chair*

**Faculty**  
***Professor Emeritus***  
Fernando N. Zialcita

***Professors***  
Ricardo G. Abad  
Emma E. Porio

***Associate Professors***  
Czarina A. Saloma-Akpedonu

***Assistant Professor***  
Jose Jowel P. Canuday  
Enrique Niño P. Leviste

***Lecturers***  
Elizabeth Uy Eviota  
Anna Marie A. Karaos  
Liza L. Lim  
Raul Pertierra  
Mary Racelis

Jessica Sandra R. Claudio  
Dino A. Concepcion  
Cielito C. Goño  
Karen Anne S. Liao  
Nota F. Magno  
Clarissa Cecilia R. Mijares  
Suzanna R. Roldan  
Emily B. Roque  
Justin Charles G. See  
Maria Andrea M. Soco-Roda

The Department of Sociology and Anthropology contributes to national development by forming social scientists dedicated to the ideals of Jesuit pedagogy – academic excellence, cultural rootedness, mature spirituality, and the promotion of justice.

Through its training, research, and action programs, the Department enables students to use sociological and anthropological perspectives in the analysis and interpretation of contemporary issues. Students also acquire the ability to examine phenomena with scientific discipline; assess contending ideologies; offer alternative narratives on tradition, modernity and social change; and make workable recommendations for plans and policies that enhance people's welfare. Equipped with an understanding of the human condition, our graduates possess the knowledge and skills needed in the implementation of social development programs. They can use their social science background for a managerial or a research position in the media and corporate or business world. They can also find fulfillment and satisfaction in teaching social sciences, in doing research with private and government institutions, and in the management of social and cultural resources. They are likewise well-prepared for advanced or professional studies in anthropology, business management, development studies,

(cont'd)

economics, journalism, law, public administration, sociology, urban or regional planning, and related fields.

To sustain this academic commitment, the Department maintains a responsive program of studies run by faculty members who are highly esteemed teachers and very active practitioners in their fields of expertise. Its reputation is national: The Department of Sociology and Anthropology earns the distinction of being a CHED Center of Excellence in Sociology.

## BACHELOR OF ARTS, MAJOR IN SOCIAL SCIENCES

Students learn to use sociological and anthropological perspectives to accomplish three feats: first, to comprehend their everyday life within larger communities; second, to obtain grounding in research methodology; and third, to make sense of pressing issues that beset contemporary social worlds. With this kind of training, students acquire a critical sense of social worlds, an ability they can use to examine phenomena with scientific discipline; assess contending ideologies; offer alternative narratives on tradition, modernity and social change; and make workable recommendations for plans and policies that enhance people's welfare.

The program prepares students for jobs with people, and about people. Its graduates, being well-equipped with a deep and broad understanding of the human condition, have several job opportunities open to them. They have the knowledge and skills needed for careers in social development, media, the business world, the academe, and the management of cultural resources. Graduates also find the social science program an excellent preparation for advanced or professional studies in anthropology, business management, development studies, economics, journalism, law, public administration, sociology, urban or regional planning, and related fields.

### FIRST YEAR

<u>First Semester</u>	<u>Units</u>	<u>Second Semester</u>	<u>Units</u>
EN 11 Communication in English I	3	EN 12 Communication in English II	3
LIT 13 Introduction to Fiction	3	LIT 14 Introduction to Poetry and Drama	3
MA 11 Modern Mathematics I	3	MA 12 Modern Mathematics II	3
FIL 11 Sining ng Pakikipagtalastasansa Filipino I	3	FIL 12 Sining ng Pakikipagtalastasansa Filipino II	3
NATSCI 1A Natural Science, Lecture	3	NATSCI 2A Natural Science, Lecture	3
NATSCI 1B Natural Science, Laboratory	1	NATSCI 2B Natural Science, Laboratory	1
PE 1 Physical Education	(2)	PE 2 Physical Education	(2)
INTAC 1 Introduction to Ateneo Culture and Traditions	(0)	INTAC 2 Introduction to Ateneo Culture and Traditions	(0)
<b>Total:</b>	<b>16</b>	<b>Total:</b>	<b>16</b>

### SECOND YEAR

<u>First Semester</u>	<u>Units</u>	<u>Second Semester</u>	<u>Units</u>
SA 21 Introduction to Sociology and Anthropology	3	SA 100 Basic Statistics for Social Sciences	3
TH 121 An Introduction to Doing a Catholic Theology	3	SA 101 Survey of Social Theories	3
FIL 14 Panitikan ng Pilipinas	3	EC 102 Basic Economics, Agrarian Reform and Taxation	3
HI 16/HI 18 Asian History/Western History	3	PSY 101 General Psychology	3
FLC Foreign Language and Culture	3	SCI 10 Science and Society	3
PE 3 Physical Education	(2)	PE 4 Physical Education	(2)
NSTP 1 National Service Training Program	(3)	NSTP 2 National Service Training Program	(3)
<b>Total:</b>	<b>15</b>	<b>Total:</b>	<b>15</b>

### THIRD YEAR

<u>First Semester</u>	<u>Units</u>	<u>Second Semester</u>	<u>Units</u>
PH 101 Philosophy of the Human Person I	3	PH 102 Philosophy of the Human Person II	3
TH 131 Marriage, Family Life and Human Sexuality in a Catholic Perspective	3	SA 103 Quantitative Methods in the Social Sciences	3
SA 102 * Sociological Analysis	3	SA 104 Qualitative Methods in the Social Sciences	3
HI 165 Rizal and the Emergence of the Philippine Nation	3	SA MAJOR SUBJECT 2	3
SA MAJOR SUBJECT 1	3	SA ELECTIVE	3
SA ELECTIVE	3	FREE ELECTIVE	3
<b>Total:</b>	<b>18</b>	<b>Total:</b>	<b>18</b>

### FOURTH YEAR

<u>First Semester</u>	<u>Units</u>	<u>Second Semester</u>	<u>Units</u>
PH 103/ PH 104 Philosophy of Religion/ Foundations of Moral Value	3	PH 103/ PH 104 Philosophy of Religion/ Foundations of Moral Value	3
TH 141/ TH 151 A Theology of the Catholic Social Vision/ The Catholic Commitment of Today's Filipino: A Synthesis	3	TH 141/ TH 151 A Theology of the Catholic Social Vision/ The Catholic Commitment of Today's Filipino: A Synthesis	3
HI 166 Philippine History	3	POS 100 Politics and Governance	3
SA 105 Practicum I	3	SA MAJOR SUBJECT 4	3
SA MAJOR SUBJECT 3	3	SA MAJOR SUBJECT 5	3
FREE ELECTIVE	3	SA ELECTIVE	3
<b>Total:</b>	<b>18</b>	<b>Total:</b>	<b>18</b>

\*Can be substituted with SA 107 or SA 109

Total Number of Academic Units: 134  
Curriculum Effective Freshman Batch SY 2002-2003

## MINOR IN SOCIOLOGY

The program provides Loyola Schools undergraduate students majoring in fields other than the Social Sciences with the basic background and research skills to undertake systematic social and research analyses. With the research and analytical skills gained from the program, envisioned opportunities include work in fields requiring an understanding of social development, organizational cultures, and social transformations, in general. This objective is achieved by an assemblage of substantive courses, methods courses, and a formal practicum course.

The Minor in Sociology requires completion of 15 units of sociology courses. These are:

SA 101	Survey of Social Theories	OR	3 units
SA 102	Sociological Analysis		3 units
SA 103	Quantitative Methods in the Social Sciences	OR	3 units
SA 104	Qualitative Methods in the Social Sciences		3 units
SA Major Subjects/SA Electives			6 units
SA 105	Practicum I		3 units

Note: The Ateneo Cultural Laboratory (6 units) can substitute for SA 104 and SA 105.

*Pre-requisite: SA 21. Introduction to Sociology and Anthropology*

## MINOR IN CULTURAL HERITAGE

The Minor in Cultural Heritage is open to all Loyola Schools undergraduate students. It trains students to tackle issues relating to cultural heritage and develop actions aimed at maintaining and promoting elements of cultural heritage such as streetscapes, architecture, food ways, music, dance, and crafts among others. Students develop social sciences skills to understand the context for the conservation of cultural heritage and to communicate a vivid awareness of Filipino cultural heritage. Envisioned opportunities include work with development agencies or local government agencies; graduate studies in architecture, art management, development, tourism, or urban planning; creation of products with distinct local or regional feel; and work with hotels, restaurants and tours as a specialist in heritage tourism; among others. Its activities include the setting up of social laboratories in historic localities for the purpose of promoting sensitivity to aspects of cultural heritage that need to be protected and managed.

Students take the following courses:

SA 104	Qualitative Methods in the Social Sciences	3 units
SA 119	Cutural Anthropology	3 units
SA 157	Introduction to Cultural Heritage	3 units
SA 199.1	Special Topics in the Social Sciences: Culture and the Senses	3 units
SA 105	Practicum I	3 units

Note: The Ateneo Cultural Laboratory (6 units) can substitute for SA 104 and SA 105.

*Pre-requisite: SA 21. Introduction to Sociology and Anthropology*

## ATENEO CULTURAL LABORATORY

The Ateneo Cultural Laboratory is a three-week intensive summer program that trains participants in using sociological and anthropological perspectives and methods in the documentation, interpretation, and analysis of social and cultural assets. It covers a week of classes in field methods, research design and data analysis techniques, and two weeks of fieldwork on a particular community and data processing and analysis. Research findings are then presented in a public forum.

The Ateneo Cultural Laboratory welcomes incoming senior college students from the humanities, management, science and engineering, and the social sciences; graduate students; non-academic professionals; and the general public interested in Philippine culture and society.

## COURSE OFFERINGS

### SA 21

#### INTRODUCTION TO SOCIOLOGY AND ANTHROPOLOGY

##### 3 units

This course introduces the different perspectives of sociology and anthropology with reference to the Philippine context. Focus is on how forces of culture, social structure, and social institutions influence human behavior and how individuals acting as a group reproduce and transform these same social forces.

### SA 100

#### BASIC STATISTICS FOR THE SOCIAL SCIENCES

##### 3 units

This course is an introduction to statistics as a research tool for assessing social phenomena, focusing on selected univariate and bivariate measures, both descriptive and inferential. The approach is non-mathematical, emphasizing the application of appropriate statistical procedures to specific problems.

### SA 101

#### SURVEY OF SOCIAL THEORIES

##### 3 units

**Pre-requisite:** SA 21

This course is a study of theories of societies developed in the disciplines of anthropology and sociology in the 19<sup>th</sup> and 20<sup>th</sup> centuries, with a discussion of the theorists within their historical milieu, as well as their contribution to the social sciences.

### SA 102

#### SOCIOLOGICAL ANALYSIS

##### 3 units

**Pre-requisite:** SA 101

This course discusses the concepts, approaches, and themes of sociological inquiry; beginning with the philosophical origins of sociology and ending with its ascendancy as a major social science discipline. The course discusses how these approaches view social reality from different yet complementary points of view.

### SA 103

#### QUANTITATIVE METHODS IN THE SOCIAL SCIENCES

##### 3 units

**Pre-requisites:** SA 21, SA 100

This research methodology course presents the concepts and tools of quantitative social research – particularly the survey – for gathering data. Students learn to design and conduct a

survey, analyze the data, interpret the results, and present the conclusions.

### SA 104

#### QUALITATIVE METHODS IN THE SOCIAL SCIENCES

##### 3 units

**Pre-requisites:** SA 100, SA 101

This course is an analysis of anthropological and sociological works, focusing on the claims and conclusions presented, the research methods used, and the different theoretical approaches employed. The skills needed for qualitative data collection are developed by designing and implementing research projects.

### SA 105

#### PRACTICUM I

##### 3 units

**Pre-requisites:** SA 103, SA 104

Students undertake research for practical training in this application course. Focus is on the social survey, a research approach widely used in the social sciences. Students go through the survey process from conceptualization to report writing, and finally, to the presentation of findings.

**SA 106****PRACTICUM II****3 units****Pre-requisites:** SA 103, SA 104

This application course focuses on the qualitative approaches to field research in the social sciences. It is problem-oriented, encouraging students to engage in contemporary Philippine societal issues as they participate in the design and implementation of specific projects.

**SA 107****CONTEMPORARY SOCIOLOGICAL AND ANTHROPOLOGICAL THOUGHT****3 units**

This course studies the condition of alienation in modern society as viewed by major sociologists. Focus is on three main concerns: whether modern economic arrangements foster alienation, how society may move away from alienation, and the role sociologists assume in planning for a de-alienated society.

**SA 108****REPORT WRITING IN THE SOCIAL SCIENCES****3 units**

This is a course on planning and writing a social research report, with emphasis on the social survey. Workshop techniques are employed.

**SA 109****THEORIES OF DEVELOPMENT****3 units**

This course is a survey and analysis of socio-cultural, political, and economic theories of development. Topics include theoretical models such as modernization, dependency, world-system and neo-Marxist/neo-Weberian versions; neo-functional theories; governance/democratization

models; and postmodernist critiques.

**SA 110****SOCIAL CHANGE AND SOCIAL CONFLICT****3 units**

This course is a study of social change through development toward equality and participation.

**SA 111****TEACHING THE SOCIAL SCIENCES****3 units**

This is a lecture-workshop course on the strategies for teaching the social sciences.

**SA 112****HEALTH, CULTURE, AND SOCIETY****3 units**

This course explores the cultural, social, and psychological underpinnings of health, sickness, and healing, in various contexts. Topics include illness representations; personhood and suffering; the dynamics of power; sickness and therapy; and the production, reproduction, and legitimization of authoritative knowledge.

**SA 113****GENDER AND DEVELOPMENT****3 units**

This course is a study of the key role of gender in Philippine society and economic development. Focus is on gender issues in Philippine society; the interconnections between gender, the state, and economic development; and the needs, strategies, and methods in policy, organizing, and research.

**SA 114****ETHNOGRAPHIC ANALYSIS****3 units**

This course is a study of anthropological praxis to

understand and critique the underlying epistemological foundations of ethnographic practice and theorizing. Emphasis is on the practice of ethnography and the analysis of ethnographic data.

**SA 115****ENVIRONMENT AND BEHAVIOR****3 units**

This course discusses basic ecological concepts currently used yet often poorly understood. The course utilizes case studies to clarify feedback relationships between particular societies and their environment, and then proposes practical research strategies for students to use in conducting anthropological fieldwork with an ecological orientation.

**SA 116****THE PHILIPPINES, SPAIN, AND SPANISH AMERICA****3 units**

This course is a study of the exchange of influences between the Philippines, Spain, and Mexico. The analysis of Philippine art is important in the course.

**SA 117****INTRODUCTION TO ARCHAEOLOGY****3 units**

This course introduces archeology as intimately related to environmental issues. Paleobotany, geomorphology, zoo-archeology, and other allied scientific disciplines provide information that allows for anthropological interpretation of man's adaptation to his environment. The course also looks at the Philippines in terms of environmental archaeology.



**SA 118**  
**SEX, CULTURE,**  
**AND SOCIETY**  
**3 units**

This course is a study of sexuality as a socially and culturally constructed behavior, focusing on how it is acquired and reproduced in everyday life; how it is experienced within and among different groups; and how it is connected to social, political, and economic systems.

**SA 119**  
**CULTURAL**  
**ANTHROPOLOGY**  
**3 units**

This course is a study of the concept of "culture" and patterns of behavior. The course presents the practical aspect of learning to understand why people think and act the way they do in order to make sense of both one's self and society.

**SA 120**  
**THE STATE: ORIGINS**  
**AND ALTERNATIVES**  
**3 units**

This course examines the relationship between private property, class formation, and centralized authority; the evolution of politics in countries and in regions of the Philippines; the relationship between state, nation, and national identity; and alternatives that have sprung up in opposition to the state.

**SA 121**  
**THE ETHNIC CHINESE**  
**IN PHILIPPINE LIFE**  
**3 units**

This course explores the role of Chinese-Filipinos in Philippine life from pre-Hispanic times to the present. The course covers the impact and influence of the Chinese in education, religion, arts, business, and other aspects of contemporary Philippine life.

**SA 122**  
**INTERMEDIATE STATISTICS**  
**IN THE SOCIAL SCIENCES**  
**3 units**

**Pre-requisite: SA 100**

This course introduces multivariate statistical analysis for social research. Emphasis is on the understanding and application of statistical operations rather than on the computation of these statistics. Students must be familiar with a statistical package or software. The SPSS/PC package is used extensively in class.

**SA 123**  
**COMPARATIVE STUDY**  
**OF CULTURE**  
**3 units**

This course is an introduction to major themes and issues in social anthropology through lectures, ethnographies, and theoretical readings. Social anthropology, considered to be the comparative study of culture, explores thought and behavior in kinship, politics, religion, economics, and ethnic relations in contemporary societies.

**SA 124**  
**INDUSTRIAL**  
**AND OTHER COMPLEX**  
**ORGANIZATIONS**  
**3 units**

This course is a study of the structures and processes of industrial and other large scale formal bureaucracies, including the effects on various factors, such as the well-being of organizational participants, worker organizations, and productivity.

**SA 125**  
**DEVIANCE AND**  
**SOCIAL CONTROL**  
**3 units**

This course is a discussion of sociological theories of deviance that link norm violations and the resulting reactions to social

contexts. Emphasis is given to social change and other factors as key elements in creating and amplifying deviance.

**SA 126**  
**SOCIAL INEQUALITY**  
**3 units**

This course studies inequality as a matter of patterned structures, not as something randomly distributed between individuals. The course looks at inequalities between nations and between groups, and examines the intersections of these inequalities and how controlled and exploited groups respond to social inequality.

**SA 127**  
**POLITICAL ECONOMY OF**  
**AGRARIAN CHANGE**  
**3 units**

This course is an investigation of the total system of social relationships constituting "rural societies". The environmental, economic, political, and cultural aspects are discussed and evaluated to locate the transformative processes constituting the social life of the "peasantry" within the framework of political economy.

**SA 128**  
**CITIES AND SOCIETY**  
**3 units**

This course analyzes the constitution and reconstitution of socio-political and economic spaces and urban life through an examination of concepts and theories that inform urban studies and their application to empirical issues. Field work assignments are given for better understanding of discussions done in class.

**SA 129**  
**GENDER RELATIONS**  
**3 units**

This course discusses the historically specific forms that

relations between women and men take in a given society. Topics include gender identity, sexuality, traffic in women, sexual offenses, a historical analysis of women's subordination, the economy and the family-household system, and gender and the Church.

**SA 130**  
**RELIGION, CULTURE, AND SOCIETY**

**3 units**

This course is a study of religion as it exists within a socio-cultural matrix, and conversely, religion's influence on culture. Discussions include religious discourse as coloring contemporary politics, the Philippines characterized as suffering from a "split-level Christianity", and the Philippines as being culturally schizophrenic.

**SA 131**  
**SOCIAL CLASS AND STRATIFICATION**

**3 units**

This course is an introduction to the structured social inequality—the alternative theories, historical bases and consequences for social life, especially as these apply to the Philippines. Focus is on the forces surrounding inequalities in wealth, status, and power in Philippine society.

**SA 132**  
**LAW, CULTURE, AND SOCIETY**

**3 units**

This course is a study of the influence of the socio-cultural matrix upon legal processes, including the reverse movement: the impact of the legal process upon the socio-cultural matrix.

**SA 133**  
**PHILIPPINE ETHNIC GROUPS**

**3 units**

This course explores Philippine ethnicity, the construction of identity in contemporary society, and the current debates on cultural diversity in the context of indigenous peoples. These topics are discussed within the context of politics and global concerns with regard to indigenous rights and sustainable development.

**SA 134**  
**PHILIPPINE SOCIETY AND CULTURE**

**3 units**

This course is an analysis of empirical data for selected Philippine problems in the context of sociological and anthropological theoretical frameworks. The approach is multi-disciplinary and incorporates the insights of economics, political science, psychology, and other disciplines.

**SA 135**  
**CONTEMPORARY SOCIAL PROBLEMS**

**3 units**

This is a seminar course on the socio-political construction, resolution, and maintenance of social problems in contemporary society. The course examines the major theoretical frameworks—structural-functionalist, conflict/political economy, and interpretive perspectives—utilized in the analysis and understanding of contemporary social problems.

**SA 136**  
**URBAN COMMUNITY DEVELOPMENT**

**3 units**

This course is an analysis of Western and Asian urban problems, the slum as a social and cultural system, the process of urban community development, methods and techniques of planned social

change, and community leadership.

**SA 137**  
**LITERATURE, CULTURE, AND SOCIETY**

**3 units**

This course is a sociological exploration of a variety of texts as products of a sociohistorical process. It identifies the ways texts engage society dialectically to enable students to approach Philippine texts using methods other than those traditionally employed in other forms of literary analysis.

**SA 138**  
**POLITICAL ECONOMY OF ENVIRONMENTAL RESOURCES**

**3 units**

This course is a study of the bases of environmental resource use/access patterns and its socio-political consequences from the perspective of the political economy. These issues are located within the context of the globalization of modern socio-political and economic life.

**SA 139**  
**ISSUES AND DEBATES IN PHILIPPINE ARCHAEOLOGY**

**3 units**

This course introduces the science of archaeology as applied to the problem of undocumented or flawed accounts of culture and traditions from the historical and protohistorical period. The historical archaeologist collects undocumented evidences from the ground and reconstructs a more detailed view of the past.

**SA 140**  
**CLASS AND SOCIETY**

**3 units**

This course is a study of the structure of objective economic inequality in capitalist society through the perspective of class,

with the view of economic relations as producing distinct economic classes. The approach is compared to other theoretical perspectives on social and economic inequality.

**SA 141  
PEOPLES AND CULTURES OF  
SOUTHEAST ASIA**

**3 units**

This course introduces the diverse environments, peoples, and cultures of Southeast Asia, bringing various cultural strands together to trace relationships and similarities across political boundaries. The course explores fundamental issues affecting the lives of the people of both riverine and maritime Southeast Asia.

**SA 142  
JAPANESE SOCIETY  
AND CULTURE I**

**3 units**

This course is a survey of Japan, her history, culture, and people from a historical and socio-anthropological approach, with a view of Japanese culture through concepts like kinship, worldview, and notions of self and person.

**SA 143  
SOCIAL MOVEMENTS**

**3 units**

This course is an introduction to sociological concepts on collective behavior and social movements, using the conceptual tools offered by these theories and of contemporary social processes. Special attention is paid to the relevance of theoretical frameworks in understanding the dynamics of contemporary social movements.

**SA 144  
YOUTH AND SOCIETY**

**3 units**

This course reviews the sociological approaches to the

study of youth and youth cultures. The course examines the intersection of age with other population demographics and related structural features. The course also deals with the social construction of youth and its historical and cross-cultural configurations.

**SA 145  
THIRD WORLD  
DEVELOPMENT:  
ISSUES AND MEANINGS**

**3 units**

This course studies the meaning of Third World development through sociology's humanistic tradition, from the legacies of Marx, Fromm, Weber, Durkheim, Scheler, and Habermas. Topics also include the role of globalization and high-technology; and the definitions of strategies of participation, integrated development, autonomy, and sustainability.

**SA 146  
JAPANESE SOCIETY  
AND CULTURE II**

**3 units**

**Pre-requisite:** SA 142  
*A course designed for students with a good knowledge of Japanese historical development.*

This multi-disciplinary course provides a comprehensive view of contemporary Japan, its problems, trends, and prospects as a world power. Emphasis is on Japanese geography, history, culture, customs and mores, economy, education, religion, language, literature, and arts.

**SA 147  
CRIME AND DELINQUENCY**

**3 units**

This is a lecture/field exposure course on criminology, the sociological study of "rule-breaking." Criminality is examined from two sociological angles, as a form of deviant

behavior, and as an issue of social justice. The course combines critiquing of existing theoretical materials in criminology with practical applications.

**SA 148  
FEMINIST THEORY**

**3 units**

This is a survey course on the major theoretical perspectives of feminism; the interconnections between specific recommendations for change and their theoretical presuppositions; and how feminist knowledge is produced.

**SA 149  
PSYCHOLOGICAL  
ANTHROPOLOGY**

**3 units**

This course is a study of competing frameworks in the anthropology of the body and embodiment; identity; personhood; cognition; and emotion; including studies on the articulations and dramatizations of the self in changing socio-cultural contexts.

**SA 150  
MARITIME  
ANTHROPOLOGY**

**3 units**

This course introduces maritime anthropology which deals with the study of biological, bio-cultural, and cultural phenomenon concerning human activities directly or indirectly connected to the sea. The course provides an outline of history, issues, and the state of maritime anthropological studies in the Philippines.

**SA 151  
INTRODUCTION  
TO MUSEOLOGY**

**3 units**

This course is a study of the perspectives, concepts, and

contexts in the study and administration of museums.

**SA 152**  
**CONTEMPORARY**  
**SOCIOLOGICAL THEORY**  
**AND THE PROBLEM OF**  
**MODERNITY:**  
**A PHILIPPINE SETTING**  
**3 units**

This course is a study of modernity and the rise of a sociological consciousness in the Philippines. Topics include knowledge-constitutive aspects of modernity; awareness of the artifactual condition of culture; consequences of cultural relativism and the rise of anthropology; the postmodern condition; locality; and globalism.

**SA 153**  
**FAMILY, CULTURE,**  
**AND SOCIETY**  
**3 units**

This course studies the family in the context of social transformation. Using classical and contemporary theoretical perspectives, the course examines changing family and marriage practices and patterns; shifts in values, attitudes, and structures; and issues in family formation and alternative arrangements across time and space.

**SA 154**  
**POPULATION STUDIES**  
**3 units**

This course introduces the concepts and methods of population studies. Topics include nature, determinants, and consequences of fertility, mortality, and internal and external migration; relationships among population, socio-economic development, and the environment; issues in contraceptive practices; relocation strategies; and other

population and population-related policies.

**SA 155**  
**GENDER, WORK, SEXUALITY,**  
**AND VIOLENCE**  
**3 units**

This course is a systematic study of related themes in women's lives—work, sexuality, and violence—and the ways in which they are engendered. Materials are drawn from feminist and other relevant writings, and discussions focus on both the theoretical/conceptual and the methodological.

**SA 156**  
**ETHNICITY, CLASS,**  
**AND GENDER IN EAST AND**  
**SOUTHEAST ASIA**  
**3 units**

This course studies contemporary issues in Southeast Asia and East Asia, with a view of the diversity of cultures in the region, processes of governance, environmental change, and industrialization that have resulted in rapid, and sometimes profound, change with respect to ethnicity, class, and gender.

**SA 157**  
**INTRODUCTION TO**  
**CULTURAL HERITAGE**  
**3 units**

This course is an introduction to the knowledge and skills that are basic to the preservation and promotion of *dakilang pamana*, or one's cultural heritage.

**SA 158**  
**MARITIME**  
**ANTHROPOLOGIES AND**  
**HISTORIES IN SOUTHEAST**  
**ASIA WITH SPECIAL**  
**REFERENCE ON THE**  
**PHILIPPINES**  
**3 units**

This course introduces various perspectives in the analysis of maritime culture and social

processes governing maritime life in Southeast Asia. The course draws on historical, archaeological, and ethnographic materials that address issues on the relationship between ecological, symbolic, and material processes in their socio-political context.

**SA 159**  
**GLOBALIZATION,**  
**LOCALITIES,**  
**AND IDENTITIES**  
**3 units**

This course is a study of consumption and the transformation of identities as important components of the cultural process, examining the intersection between the local and the global.

**SA 160**  
**ISSUES AND DEBATES IN**  
**ANTHROPOLOGICAL AND**  
**SOCIOLOGICAL THEORY**  
**3 units**

This course studies the interdependencies of self, culture, and society, utilizing various postmodern theoretical approaches and critical discourses, which are reviewed and compared with earlier approaches to self and society. Applications to Philippine society are made to detect post-structural realities in Filipino social life.

**SA 161**  
**SOCIETY, CULTURE, AND**  
**INFORMATION**  
**TECHNOLOGY**  
**3 units**

This course discusses the perspectives, theories, and "facts" that help us understand the forces that produce particular kinds of technologies. It examines the effects of new information technologies on people, human identity, values, and social relations, and the

desire to produce and share knowledge.

**SA 162  
FOOD, CULTURE,  
AND SOCIETY**

**3 units**

This course is a discussion on food as central to political strategies of nation states and households; as marker of social differences, boundaries, bonds, and contradictions; and as an enactment of gender, family, and community relationships.

**SA 163  
MUSLIM SOCIETIES IN ASIA**

**3 units**

This course examines Islam as a living religious tradition of people reacting to their societal environment and to the tensions of the modern world. Topics include the impact of Muslim revivalism, Muslim separatist movements, and similarities and differences of selected Muslim communities in Asia.

**SA 164  
TRANSNATIONAL  
MIGRATION: GENDER,  
CULTURE, AND IDENTITIES**

**3 units**

This course introduces current theories and contemporary debates on transnational migration. It will explore identity formation among Filipino migrants in relation to the intersections of culture, 'race', and gender, as well as the impact of institutions and discourse on shaping agencies and potentialities.

**SA 169  
QUANTITATIVE DATA  
ANALYSIS**

**3 units**

**Pre-requisite: SA 100**

This is a workshop-style course on the analysis, interpretation, and presentation of survey data using univariate, bivariate, and

multivariate statistical techniques. Using existing data sets, students select a research topic, construct an analytical framework, and proceed with data analysis and interpretation.

**SA 199.1  
SPECIAL TOPICS IN THE  
SOCIAL SCIENCES: CULTURE  
AND THE SENSES**

**3 units**

This course introduces the varied aspects of cultural heritage. Two alternative ways are explored in the course: 1) look for and appreciate the grammar of major human artifacts; and 2) identify the hallmarks of the Filipino sensibility as manifested by vernacular terms and particular artifacts.

**SA 199.5  
SPECIAL TOPICS IN THE  
SOCIAL SCIENCES:  
VISUAL ANTHROPOLOGY**

**3 units**

This course deals with visual representations used by anthropologists and other forms employed by the anthropological subject. These include pictures, films, videos, performances, art, and decoration. These representations are considered art forms in many cultures. The course combines the theory and practice of visual anthropology.

**SA 199.10  
SPECIAL TOPICS IN THE  
SOCIAL SCIENCES:  
INTRODUCTION TO  
POSTMODERN SOCIAL  
THEORY**

**3 units**

The course is concerned with the postmodernism and postmodernity. It focuses on several key figures and the relevance of their ideas to contemporary issues such as computer-mediated communication, consumerism, social surveillance, virtual

worlds and identities, and semiotics and mythology.

**SA 199.11  
SPECIAL TOPICS IN THE  
SOCIAL SCIENCES:  
PRESENTATIONAL SKILLS  
FOR THE SOCIAL SCIENCES**

**3 units**

This is a seminar on the use of voice, body, and mind to communicate ideas in the social sciences at the classroom, conferences, meetings, lectures, forums, and related public assemblies.

**SA 199.12  
SPECIAL TOPICS IN THE  
SOCIAL SCIENCES:  
INTANGIBLE HERITAGE,  
ORALITY, MEMORY, AND  
CREATIVITY**

**3 units**

This course examines our intangible heritage, particularly our oral literature. Focus is on Filipino epics from the Ateneo de Manila's collection, the largest collection in the entire country.

**SA 199.13  
SPECIAL TOPICS IN THE  
SOCIAL SCIENCES:  
SOCIOLOGY OF THE ELITE**

**3 units**

This course examines the historical-structural bases of the formation and behavior of the elites in Philippine society. Students do ethnographic, survey, and community studies or genealogies/ life histories of individuals and their families/networks, focusing on particular aspects of class/state formation and behavior.

**SA 199.14  
SPECIAL TOPICS IN THE  
SOCIAL SCIENCES:  
SOCIOLOGY OF SCIENCE  
AND TECHNOLOGY**

**3 units**

This course is an introduction to social and cultural studies of

science and technology, particularly on the sociological ways of understanding how science, technology, and society interact to shape our worlds.

**SA 199.15**  
**SPECIAL TOPICS IN THE**  
**SOCIAL SCIENCES:**  
**ANTHROPOLOGY OF**  
**GLOBALIZATION**  
**3 units**

This course examines development in the context of globalization. The interconnections of globalization are studied through the lens of culture, social structure, and social organization. Students learn how people utilize cultural codes to interpret, translate, and customize global transfers.

**SA 199.16**  
**SPECIAL TOPICS IN THE**  
**SOCIAL SCIENCES: THE**  
**ANTHROPOLOGY OF**  
**PERFORMANCE**  
**3 units**

This course is a study on performance as a tool of analysis. Theories on performance and performativity are discussed to present approaches on rituals, representation, display, and practice. Three interconnected themes are considered: the anthropological dimension, the social and cultural dimensions, and performance and identity.

**SA 199.17**  
**SPECIAL TOPICS IN THE**  
**SOCIAL SCIENCES**  
**(POLITICAL**  
**ANTHROPOLOGY)**  
**3 units**

**Pre-requisite: SA 21**

This course examines power relations between the state and marginalized groups, mediated through business, civil society, and social movements. Notions of inclusive citizenship, human rights, and governance are examined in a cross-cultural context with emphasis on the

anthropological perspective on the role of human agency.

**SA 199.18**  
**SPECIAL TOPICS IN THE**  
**SOCIAL SCIENCES (FILIPINO**  
**MIGRANTS AND THE**  
**GLOBAL HISTORY)**  
**3 units**

**Pre-requisite: SA 21**

This course discusses Philippine transborder migrations, specifically from the nineteenth century to the present, in the context of global history. It offers an overview of issues in global history and relates these to theories of migration. Whenever possible, the course uses a comparative approach.

**SA 199.19**  
**SPECIAL TOPICS IN THE**  
**SOCIAL SCIENCES:**  
**MATERIAL CULTURE**  
**3 units**

This course studies material culture in contemporary societies. Topics include the relation between culture and economy, modern subjectivity and identity, postmodernity, materiality in everyday life, and cross-cultural flows of commodities and representations; areas within which consumption is seen as a site of active agency/identity.

**SA 199.20**  
**SPECIAL TOPICS IN THE**  
**SOCIAL SCIENCES: RURAL**  
**SOCIETIES**  
**3 units**

**Pre-requisite: SA 21**

This course is a study on the ethnographic and sociological contexts of rural people/peasants. Focus is on the social structure, culture, environment, and political economy in the context of the State and globalization. Programs aimed at enhancing the lives of rural people are also reviewed.



*the*  
**PHYSICAL  
EDUCATION  
PROGRAM**

Richardson C. Gialogo  
*DIRECTOR*





Physical Education Complex  
(632) 426-6001 loc. 5016/5017  
rgialogo@ateneo.edu

# PHYSICAL EDUCATION

**Richardson C. Gialogo**  
*Director*

## **Faculty**

### ***Assistant Professors***

Ma. Amelia S. Bonoan  
Maria Angela Inez Ponce de Leon  
Ariston Alex M. Torres III  
Walter Francis K. Torres

### ***Instructors***

Richardson C. Gialogo  
Ramil B. Iriola  
Gerardo Joaquin B. Sinco  
Augustus I. Vargas  
Ma. Vanessa G. Vinarao

### ***Lecturers***

Belinda G. Adora  
Edwin K.Y. Ang  
Marigen M. Ariel  
Arturo F. Asajar  
Michael U. Braga  
Regina D. Clemente  
Ryan C. Gialogo  
Maria Camille Bianca A. Gonzales  
Jesse Gilliam Gotangco  
Rosalinda M. Kimpo  
Servic S. Marilao  
Amor T. Medina  
Luis F. Mencias  
Jesus N. Morales III  
Henry C. Olivia  
David Allen Yu Puen  
Paul Andre A. Puertollano  
Juan Augusto C. Ramirez  
Angeli Marie T. Rodil  
Ma. Stella C. Unson  
Joel F. Villarino

The Physical Education Program contributes to the total formation of Ateneans through various course offerings in 170 classes per semester. These accommodate a wide range of students' interests and abilities - from the more traditional games like basketball, tennis, badminton, and soccer to the more exceptional sports and health exercises such as yoga, tai-chi, wu-shu, fencing, taekwondo, judo, Arnis, muay thai, dancesports, tap dancing, swimming and snorkeling or skin diving.

Jesuit Education adheres to holistic development and character formation of the students. The P.E. Program specifically focuses on the physical development aspect and allows students to play, interact and even compete in a friendly environment. Physical components like: speed, agility, power, strength, balance, coordination, reaction time, flexibility and endurance are developed through the various physical activities offered.

The program not only develops the physical well-being of the students, but also instructs them in the rules, discipline, and ethics important in fair play, which will serve them well in other areas of their college life and future professions.

The PE program also administers the recreational facilities and equipment of the Loyola Schools for the indoor and outdoor use by students, faculty, and staff.

## COURSE OFFERINGS

**PE 101**  
**FOUNDATIONS OF PHYSICAL**  
**FITNESS AND HEALTH**  
**2 units**

These are lectures on the principles and practices of fitness, sports, recreation, and nutrition, with practical sessions involving fitness testing and various fitness programs.

**PE 102**  
**AEROBICS**  
**2 units**

This is a fitness program involving general endurance, flexibility, and coordination. All activities are done to the beat and rhythm of lively music.

**PE 103**  
**SWIMMING**  
**2 units**

These are practical sessions on basic floating, proper breathing, and basic swimming strokes such as crawl, breaststroke, and backstroke.

**PE 103.1**  
**SNORKELING/SKIN DIVING**  
**2 units**

This is a course on fundamental theories and practical sessions in snorkeling and skin diving. The course enables students to master the use of snorkeling equipment and to observe safe diving practices.

**PE 104**  
**BADMINTON**  
**2 units**

These are practical sessions involving instruction in basic badminton techniques, with lectures on the history, equipment, as well as rules and regulations of badminton.

**PE 105**  
**PHYSICAL FITNESS**  
**FOR WOMEN**  
**2 units**

These are lectures and practical sessions on all aspects of physical fitness, including the development of individual fitness programs for women.

**PE 106**  
**TABLE TENNIS**  
**2 units**

These are lectures on the history, equipment, and rules of the game, with practical sessions on the basic strokes and spins, footwork and tactics.

**PE 107**  
**RUNNING**  
**2 units**

These are lectures on the history, principles, practice, and philosophy of the sport, with activities dealing with various types of running such as sprints, distance running, and road running.

**PE 108**  
**LAWN TENNIS**  
**2 units**

These are practical activities on basic strokes, footwork, and game strategies, with discussions on the history, equipment, and rules of the game.

**PE 109**  
**FITNESS WALKING**  
**2 units**

This course outlines the health and fitness benefits of walking and provides students with the information they need to walk safely and efficiently. The course provides practical sessions on the basic and specialized aspects of walking culminating in an out-of-town hike.

**PE 110**  
**SOCCER**  
**2 units**

These are lectures on the history, equipment, and rules of the game, with practical activities on the basic skills of ball handling and game strategies.

**PE 111**  
**WEIGHT TRAINING FOR MEN**  
**2 units**

These are practical sessions geared toward the development of muscular fitness through lifting weights, with discussions on various theories of the program.

**PE 112**  
**BASKETBALL**  
**2 units**

These are practical sessions on basic ball handling, shooting, dribbling, and strategies, with short lectures on the history, equipment, and rules of the game.

**PE 113**  
**RECREATIONAL ACTIVITIES**  
**2 units**

*Recommended course for physically handicapped or disabled students.*

This course involves individual and group sharing about hobbies, talents, and leisure activities.

**PE 114**  
**SOFTBALL**  
**2 units**

These are lectures on the history, equipment, rules of the game, and game strategies, with practical sessions on throwing, catching, pitching, fielding, and batting.

**PE 115**  
**ARNIS**  
**2 units**

These are practical sessions on the fundamental skills and techniques of *Arnis*: striking, blocking, and disarming, with lectures on the

history, principles, and ethics of the sport.

**PE 116**  
**VOLLEYBALL**  
**2 units**

These are practical sessions on basic volleyball skills: volleying, serving, bump-pass, with short lectures on the history, rules, and skills of the sport.

**PE 117**  
**KARATE**  
**2 units**

Theses are practical sessions on both offensive and defensive techniques: strikes, thrusts, kicks, blocks and parrying, with physical training focused on the development of stance, movements, speed, and breathing. The course also covers lectures on the history, principles, and ethics of the sport.

**PE 118**  
**GYMNASTICS**  
**2 units**

These are instructional and practical sessions involving stunts, tumbling, and freehand exercises executed with music. The course also includes allied activities such as rope climbing and flexibility training.

**PE 119**  
**CIRCUIT TRAINING**  
**2 units**

These are practical sessions involving sequential performance of selected routine exercises at individual stations, with short lectures on the history and principles of circuit training.

**PE 120**  
**TRACK AND FIELD**  
**2 units**

These are instructional sessions on the fundamental skills of track and field: sprinting, middle-distance running, discus throw, javelin throw, relays, with

discussions on the rules and strategies of the sport.

**PE 121**  
**FENCING**  
**2 units**

These are practical and instructional sessions on the art of using a foil or a sword for attack or defense, with lectures on the history, principles, and ethics of the sport.

**PE 122**  
**JUDO**  
**2 units**

These are practical and instructional sessions on throwing techniques and grappling skills, with physical training to obtain spiritual goals. The course also includes lectures on the history, principles, and ethics of the sport.

**PE 123**  
**OUTDOOR RECREATION**  
**2 units**

These are lectures on the fundamentals of camping, backpacking, hiking, and aquatics or water safety, with practical sessions on tent-pitching, camp management skills, packing, swimming and hiking. The culminating activity is an in-campus/off-campus camping event.

**PE 124**  
**ORIENTEERING**  
**2 units**

These are lectures and practical sessions on both navigational and physical skills such as map and compass reading and cross-country walking or running.

**PE 125**  
**PHILIPPINE DANCES**  
**2 units**

This is an instruction on various dance steps incorporated into our rich dance tradition. A group presentation of selected Philippine dances is a

requirement for passing the course.

**PE 126**  
**CHESS**  
**2 units**

This is a course on the development of basic and intermediate skills of the game, focusing on moves and respective values of chess pieces, techniques, various opening principles and lines, middle and end game skills, game analysis, and chess tournament staging.

**PE 130**  
**BALLROOM DANCING**  
**2 units**

This is an instruction on basic dance steps, such as cha-cha, boogie, swing and tango, with lectures on movement, style, partner relationship, and social etiquette. The culminating activity is a group presentation of these various dance steps.

**PE 130.1**  
**DANCESPORTS**  
**2 units**

These sessions teach basic dance steps, paso doble, cha-cha-cha, samba, jive and rumba. The course includes lectures on movement, style, partner relationship, and social etiquette. The culminating activity is a group presentation of the various dance steps.

**PE 131**  
**TAEKWONDO**  
**2 units**

These are practical sessions on both offensive and defensive techniques: strikes, thrusts, kicks, blocks, and parrying, with physical training focused on the development of stance, movements, speed, and breathing, with lectures on the history, principles, and ethics of the sport.

**PE 132**  
**TAI-CHI**  
**2 units**

These are practical sessions on martial arts movements with *Qi* or energy circulation, breathing, and stretching techniques, with lectures on the history, principles, and ethics of the art.

**PE 133**  
**YOGA**  
**2 units**

These are lectures and actual practice of yoga specifically on proper exercise, yogic breathing, proper relaxation, positive thinking, and meditation.

**PE 134**  
**TAP DANCE**  
**2 units**

These are practical sessions on the basic steps, step combinations, and dance routines, with lectures on the historical background and definition of terms.

**PE 135**  
**MODERN JAZZ**  
**2 units**

These are practical sessions on basic steps, step combinations, and dance choreography, with lectures on the historical background, and definition of terms.

**PE 136**  
**SELF-DEFENSE**  
**2 units**

These are lectures and practical application of self-defense

**PE 137**  
**GASAIIDO PENJAK SILAT**  
**2 units**

These are lectures on the history and terminology focusing on the basic skills of stances, striking, blocking and kicking

**PE 138**  
**MUAY THAI**  
**2 units**

These are lectures on the history, principles, and ethics of Muay Thai. It includes the basic and advanced physical fitness conditioning exercise; practical sessions on the basic and intermediate method of self-defense; and the application of all basic and combined Muay moves.

**PE 139**  
**WU SHU**  
**2 units**

These are lectures on the history, principles, and ethics of Wu Shu. It includes the benefits of the form, body awareness, self-discipline, and focus or concentration; practical sessions on the use of weapons; staff or cudgel; and the entire sequence of the form useful for self-defense.

**PE 140**  
**POWER BOXING**  
**2 units**

This course is an introduction to boxing training. The student learns essential basic skills and conditioning exercises that form the regular regimen of real boxing training without the risk of injuries caused by full-contact sparring. Included in the Power Boxing course are the basic forms of punching, body mechanics, and footwork.

**PE 141**  
**FOUNDATION AND FUNDAMENTALS OF BREAKIN'**  
**2 units**

Breakin'/Bboyn', commonly known as "Breakdance," is the dance form of the Hip-Hop Culture. It started in the 70's and has evolved into an established art form and profession in countries worldwide. This course teaches the foundation and fundamentals of Breakin' through various principles and exercises.

**PE 142**  
**STREET DANCE 101**  
**2 units**

Street Dance uses elements from the different dance styles such as Breakin', Locking, Popping & New School Hip-hop, combining them to create choreography towards Hip-Hop, Rn'B or Popular Music. This course tackles the different elements and techniques used by the different styles in Street Dance.

**PE 143**  
**BASIC BELLY DANCE**  
**2 units**

This course introduces belly dance as a culturally-grounded, ancient, but constantly evolving dance genre. Basic Belly Dance introduces students to the vocabulary, concepts, and muscle control techniques that will enable them to create and perform basic choreographies with precision, strength, and grace.

**PE 144**  
**HANDBALL**  
**2 units**

This course is an introduction to handball training. The student learns essential basic concepts such as its history, terminologies, safety precautions when playing, and the basic rules applied to the game. The basic principles and skills is included in this course, which aims to develop and hone the students agility, endurance, speed, and footwork.

**PE 145**  
**PHILIPPINE FOLK DANCE**  
**2 units**

This course introduces various ethnic and folk dances from all over the Philippines, helping students develop a deeper understanding, awareness and appreciation of the country's rich cultural heritage. It reveals the different customs and traditions of different islands, and the

desirable character, spiritual and moral traits of the Filipino nation.

**PE 201 / IS 163.7**

**CONTEMPORARY ISSUES:  
SPORTS THERAPY**

**3 units**

This is an introductory course for students who may wish to go into the field of coaching and/or athletic training. Focus is on injury prevention and immediate care for the most common sports injuries. Basic foundations are also provided for more substantive areas of rehabilitation.

**PE 221**

**ADVANCE FENCING**

**2 units**

This course allows the students to further understand what was learned in basic fencing and progress to more complex movements involving footwork and blade exercises with Foil. The course introduces additional technicalities offensively and defensively and provides tactical preparations helping students score more efficiently in bouts.

**PE 250**

**NUTRITION FOR SPORTS  
AND EXERCISE**

**2 units**

This is a basic course in nutrition science that covers the biochemistry and the physiologic values of food as well as basic biometrics. Particularly, the course explores the relationship between nutrients and water and the performance of physical activities.

**PE 261**

**ATHLETIC TRAINING AND  
CONDITIONING I**

**2 units**

This is a class for student athletes. Practical and training

sessions are taken depending on the student's particular sport.

**PE 262**

**ATHLETIC TRAINING AND  
CONDITIONING II**

**2 units**

This is a class for student athletes. Practical and training sessions are taken depending on the student's particular sport.

**PE 263**

**ATHLETIC TRAINING AND  
CONDITIONING III**

**2 units**

This is a class for student athletes. Practical and training sessions are taken depending on the student's particular sport.

**PE 264**

**ATHLETIC TRAINING AND  
CONDITIONING IV**

**2 units**

This is a class for student athletes. Practical and training sessions are taken depending on the student's particular sport.





## SONG FOR MARY

*Music by Capt. Jose Campana*  
*Lyrics by Rev. James B. Reuter, S.J.*

We stand on a hill  
Between the earth and sky;  
Now all is still  
Where Loyola's colors fly;  
Our course is run  
And the setting sun,  
Ends Ateneo's day.  
Eyes are dry at the last goodbye  
This is the Ateneo way.

*Refrain:*  
Mary for you,  
For your white and blue,  
We pray you'll keep us, Mary,  
Constantly true.  
We pray you'll keep us, Mary,  
Faithful to you.

Down from the hill,  
Down to the world go I,  
Rememb'ring still,  
How the bright blue eagles fly.  
Through joys and tears,  
Through the laughing years,  
We sing our battle song.  
Win or lose, it's the school we choose,  
This is the place where we belong.

*(Repeat Refrain)*





# ATENEO DE MANILA UNIVERSITY

## CAMPUS MAP

