



# UPD EXTENSION PROGRAM IN PAMPANGA

## PROGRAMANG EKSTENSIYON ng UPD sa PAMPANGA

Location: Clark Freeport Zone, Pampanga

Telephone Numbers: +63-045-599-6037 | +63-045-599-2794 (fax)

Email Address: upepp@up.edu.ph

Website: upepp.upd.edu.ph

**T**he University of the Philippines Diliman Extension Program in Pampanga (UPDEPP) started in 1979 as the University of the Philippines Extension Program in San Fernando (UPEPSF). It was created upon the representation of Pampanga Governors Estelito Mendoza and Juanita Nepomuceno. After its old building was rendered useless by Mt. Pinatubo's incessant lahar flows, the unit was moved to the Clark Freeport Zone (CFZ) in 1996 and was given its present name.

Since then, UPDEPP has taken on a new character as the center of excellent higher education within the CFZ and Central Luzon in general. It has raised its UPCAT cut-off level, improved its curricular programs, upgraded its faculty profile, and modernized its library. The unit also aims to be the regional center for research, extension and development, as well as for culture and the arts.

In 2007, UPDEPP was awarded a permanent site by the Clark Development Corporation. The site consists of a 3.28-hectare lot within the CFZ which UPDEPP envisions to transform into a bustling university town. The plan is to develop an academic complex that includes two academic buildings with modernized facilities, two student dormitories, state-of-the-art library and research facility, gymnasium, auditorium, a student center, and other amenities. Construction of the first academic building is expected to be completed in 2014.

UPDEPP offers undergraduate degrees in Applied Psychology, Business Management, and Business Economics. It offers a Master of Management Program on a trimestral basis.

### PROGRAMS OFFERED

#### UNDERGRADUATE PROGRAM

##### **BS Business Management**

The Bachelor of Science in Business Management (BSBM) program aims to provide students with theories, concepts, skills, and techniques needed to become productive members of successful business organizations. The program incorporates current developments in management theory and practice to enhance the competencies of students in the different functional areas of business organizations and to increase their responsiveness to significant and practical aspects of business management concepts.

##### **BA Business Economics**

The Bachelor of Arts in Business Economics (BABE) program offers its students a solid grounding in economic theories as applied to real

world issues and problems. Since the unit is located in a high-growth industrial area, the program is particularly oriented towards the application of economic principles and concepts to business, industry, and regional development activities. The program seeks to produce analysts, researchers, and other economic practitioners who can work well in various business and investment institutions as well as in government and planning agencies.

The Economics Program was first offered as BA Economics and was revised into BA Business Economics in 2003. In 2010, a new set of curriculum revisions was implemented to further strengthen students' competencies in core economics subjects and to further rationalize courses by updating course content and requirements. The revised curriculum was designed to equip students with the knowledge, skills, and training necessary to gain a competitive edge for better employment opportunities in the labor market and for running their own business projects.

**BA Applied Psychology**

The establishment of the BA Applied Psychology curriculum (probably the first in the country) is a response to the rapid changes taking place in society that call for sensitive application of psychological theories. The program aims to address concerns in several areas of human life and activities. Besides maintaining the strengths of a traditional liberal arts discipline, the program now emphasizes the application of psychology in the fields of organizations, community, and education. Its curriculum introduces courses in Industrial-Organizational Psychology, School Psychology, Community Psychology, and Clinical Psychology. The overview courses expose students to the theoretical and technical principles central to the applied fields of psychology. Moreover, certain courses are designed to hone the students' research skills in applied psychology.

**GRADUATE PROGRAM****Master of Management**

UPDEPP offers a Master of Management (MM) program (non-thesis) with a trimestral schedule. The program aims to train qualified students for a professional career in the management of business companies, public agencies, and other non-profit institutions. Above all, it seeks to advance a manager's skills in every particular field of endeavor. It also trains managers to competently apply management theories to the enterprise's manifold activities.

**ADMISSION POLICIES/REQUIREMENTS****UNDERGRADUATE**

The U.P. Diliman Extension Program in Pampanga (UPDEPP) adheres to the admission policies of the University.

In addition, the following specific policies are implemented for:

- 1) students seeking transfer admission from other U.P. Constituent Universities (CUs) and from other universities into UPDEPP;
- 2) students seeking to shift from one degree major or program to another within UPDEPP.

**Transferees from Other UP Constituent Universities**

Students from another UP Constituent University who have completed and earned credits of at least 33 academic units may be admitted as transfer students, provided they satisfy the following additional requirements:

- 1) have a general weighted average of at least 2.25 if applicant is from an undergraduate program within the UP System that does not fall under any of the three programs offered by UPDEPP;
- 2) for applicants from other CUs who are psychology, business management, or economics majors, have an average of at least 2.00 in their major subjects and at least 2.25 in their other subjects;
- 3) pass an interview with the Program Secretary, Program Coordinator, and faculty of the program being applied for;

- 4) Submit other admission requirements including two letters of recommendations from former instructors, official transcript of records, college clearance, and permit to transfer.

**Transferees from Other Universities**

Students with previous enrolment and credits earned from another university who want to transfer to UPDEPP must satisfy the following admission requirements:

- 1) have completed as least 33 academic units;
- 2) have a general weighted average of 2.0 if applicants are from any one of the top 10 CHED-recognized Higher Educational Institutions and 1.75 if applicants are from any other CHED-recognized university;
- 3) depending on whether the applicants are psychology, business management, or economics majors, have an average of at least 2.0 in their major subjects and at least 2.25 in their other subjects;
- 4) pass an interview with the Program Secretary, Program Coordinator, and faculty of the program being applied for;
- 5) submit other admission requirements including two letters of recommendations from former instructors, official transcript of records, college clearance, and permit to transfer.

**Shiftees to Another Degree Program (within UPDEPP)**

Students of UPDEPP who want to change their major or degree program within the unit may be permitted to do so provided they comply with the following guidelines. Students seeking transfer must:

- 1) have a general weighted average of 2.5 from their original program;
- 2) have good academic standing;
- 3) submit an application letter with justification for shifting, pass an interview with the Program Coordinator and faculty of the admitting program, and comply with all other requirements for admission into the new program.

In addition, Business Economics students who wish to transfer to the Business Management program must have no failing marks in math courses, whereas Business Management students shifting to the Business Economics program must have obtained a grade of 2.75 or better in Econ 101 (Macroeconomics) and Econ 102 (Microeconomics).

**GRADUATE**

University rules and regulations governing admission apply to the UPDEPP graduate program. Moreover, applicants must:

- 1) pass the graduate admission test;
- 2) have a Bachelor's degree in any field;
- 3) have at least a two-year work experience;
- 4) pass an interview with the Program Secretary, Program Coordinator, and MM faculty;
- 5) have proficiency in basic subjects (Algebra, Statistics, Accounting, Economics).

The admission test indicates aptitude and “pre-existing” qualities needed for graduate management education. The test areas are quantitative processing, logic, and reading comprehension.

#### ADDITIONAL REQUIREMENT

Students who fail to get the required general weighted average of 2.00 may take two additional courses as approved by the Director, provided students do not repeat a course previously taken. The grades in all subjects taken will be included, however, in computing the general weighted average. The inability of students to obtain a general weighted average of 2.00 after taking the two additional courses will disqualify them from the program.

#### SERVICES AND FACILITIES

The unit has a library with a collection of more than 13,000 books and 18 serial titles. Books from the UP Diliman Main Library are made available to students on an interlibrary loan basis. Moreover, students can access e-resources (including Proquest Databases, GVRL, EBCO Academic Research Complete, Science Direct, and others) even outside of UP Diliman. UPDEPP library likewise has its own Online Publication Access Catalogue as well as its internet connection to the Main Library in Diliman.

The Learning Resource Center (LRC) of the unit offers free tutorial to the students of UPDEPP.

The unit has two computer rooms, a laboratory, a gymnasium, a conference room and an audio-visual room.

#### RESEARCH AND EXTENSION

The unit conducts various studies on the development of Central Luzon. Among its research concerns are the growth and competitiveness of signature industries of Pampanga and other provinces, culture change, and development among indigenous people in Clark and Subic. As part of its extension services, UPDEPP faculty members assist local government units in developing human resource in rural and urban development management. They also provide technical support to policymakers in both the executive and legislative branches of government.

Moreover, the unit has instituted a Regional Development Center that has assisted the provincial lantern industry in forming an industry association to represent this Pampanga cultural industry. Currently, it helps management students access funds for entrepreneurial projects.

The UPDEPP’s Ayta Studies Center, also called Hawong Ayta Museum and Studies Center, conducts researches on the Aytas and provides functional literacy assistance through an alternative learning mode.

#### CULTURAL ENDEAVORS

UPDEPP recognizes the need to bring back to life and develop the culture that gives identity to the people of the region. The unit undertakes its share of cultural dissemination by organizing seminars and conferences, launching books, setting up museums/galleries, and competing in local festivals. It is also in the process of setting up a Kapampangan Center for Literary Studies within its campus.

The UP Pampanga Chorale, organized in 2009, is actively involved in the activities of the unit and is frequently invited to perform in community functions.

To support the Pampanga Lantern Industry, UPDEPP promotes Pampanga lanterns by participating in the annual UP Diliman Lantern Parade.

#### OUTREACH PROGRAMS

UPDEPP is involved in various outreach projects which provide UP students the chance to extend their services to people in need. These projects include gift giving to the Aytas and assistance to typhoon victims.

#### STUDENT ORGANIZATIONS

There are 18 recognized student organizations in UPDEPP, three of which are classified as academic organizations: the UP Association of Economics Students, UP Business Management Society, and UP Psychology Society.

Nine of these organizations are classified as civic, socio-cultural, socio-political, religious or sports- oriented organizations: UP Campus Crusade for Christ, UP Hijos, UP Lakan, Samahang Mag-aaral na Nagkakaisa sa UPDEPP, the Graduate Students Association, League of Filipino Students, Kabataan Partylist, Kabataang Artista sa Tunay na Kalayaan, and Rotaract Club.

The rest of the organizations are confraternities namely: Alpha Phi Omega, Kappa Sigma/Kappa Delta Sigma Confraternity, Pi Sigma Fraternity/Pi Sigma Delta Sorority, Sigma Kappa Pi Fraternity, Sigma Delta Pi Sorority, and Tau Gamma Phi/Tau Gamma Sigma.

Cultural shows and competitions, quiz bees, symposia, seminars, debate and oratorical competitions, sporting events, and outreach programs are some of the various activities engaged in by these groups.

After a 10-year hiatus, the *Frontliner* (the official student publication of UPDEPP) was revived in June 2012. The editorial board came out with the first *Frontliner* issue in the same month.

UPDEPP also has its own College Student Council whose officers are elected by the student body every February.

<b>BACHELOR OF SCIENCE IN BUSINESS MANAGEMENT</b>			
<b>144 units</b>			
APPROVAL 120th Special UPD UC : 02 April 2012   President AEPascual : 04 June 2012			
F I R S T Y E A R			
1st Semester 17 units		2nd Semester 19 units	
GE (AH 1) Free Choice	3	GE (AH 2) Eng 10	3
GE (SSP 1) Kas 1*	3	GE (AH 3) Free Choice	3
GE (SSP 2) Free Choice	3	GE (SSP 3) Free Choice	3
GE (MST 1) Free Choice	3	GE (SSP 4) Free Choice	3
Math 17	5	GE (MST 2) Free Choice	3
PE	(2)	Math 100	4
NSTP	(3)	PE	(2)
		NSTP	(3)
S E C O N D Y E A R			
1st Semester 19 units		2nd Semester 17 units	
GE (AH 4) Comm 3	3	GE (AH 5) Fil 40*	3
GE (SSP 5) Philo 1	3	Econ 101	4
GE (MST 3) Free Choice	3	Econ 102	4
BM 99.1	3	BM 99.2	3
BM 101	3	BM 181	3
BM 180	4	PE	(2)
PE	(2)		
T H I R D Y E A R			
1st Semester 18 units		2nd Semester 18 units	
BM 153	3	BM 126	3
BM 104	3	BM 141	3
BM 115	3	BM 161	3
BM 182	3	BM 186	3
BM 170	3	BM Elective 1	3
Elective 1	3	Elective 2	3
F O U R T H Y E A R			
1st Semester 18 units		2nd Semester 18 units	
Econ 121	3	GE (MST 4) Free Choice	3
BM 121	3	GE (MST 5) STS	3
BM 142	3	PI 100	3
BM 183	3	BM 199	3
BM 190	3	BM Elective 3	3
BM Elective 2	3	BM Elective 4	3

1. For BM Elective Courses, students may choose from the following list of Approved Elective Courses: BM 102, 127, 144, 145, 148, 168, 174, 178, 198

2. Second Year Standing: A student must have passed 33 units.

3. Junior Standing: A student must have passed 66 units including BM 99.1, BM 99.2, Econ 101, and Econ 102

4. Senior Standing: A student must have passed 99 units.

\* Kas 1 and Fil 40 satisfy the 6-unit Philippine Studies requirement

*Note: As a requirement for graduation, all students must take six (6) units in one of the National Service Training Program (NSTP) components: Civic Welfare Training Service (CWTS), Literacy Training Service (LTS), and Reserved Officer's Training Corps Military Science (ROTC Mil Sci). These are offered by UPD.*

<b>BACHELOR OF ARTS (BUSINESS ECONOMICS)</b>			
<b>143 units</b>			
APPROVAL 120th Special UPD UC : 02 April 2012   President AEPascual : 04 June 2012			
F I R S T Y E A R			
1st Semester 18 units		2nd Semester 18 units	
GE (AH 1) Free Choice	3	GE (AH 2) Eng 10	3
GE (SSP 1) Kas 1*	3	GE (SSP 3) Philo 1	3
GE (SSP 2) Free Choice	3	GE (SSP 4) Free Choice	3
GE (MST 1) Free Choice	3	GE (MST 3) Free Choice	3
GE (MST 2) Free Choice	3	Math 14	3
Math 11	3	BM 101	3
PE	(2)	PE	(2)
NSTP	(3)	NSTP	(3)
S E C O N D Y E A R			
1st Semester 21 units		2nd Semester 18 units	
GE (AH 3) Fil 40*	3	GE (AH 4) Comm 3	3
Math 100	4	GE (AH 5) Free Choice	3
BM 99.1	3	BM 99.2	3
BM 153	3	BM 104	3
Econ 101	4	Econ 121	3
Econ 102	4	Econ 106	3
PE	(2)	PE	(2)
T H I R D Y E A R			
1st Semester 19 units		2nd Semester 19 units	
BM 115	3	GE (MST 4) Free Choice	3
BM 170	3	BM 141	3
BM 180	4	BM 186	3
Econ 141	3	Econ 131	4
Econ Elective 1	3	Econ Elective 2	3
Free Elective 1	3	Free Elective 2	3
F O U R T H Y E A R			
1st Semester 15 units		2nd Semester 15 units	
GE (SSP 5) Free Choice	3	GE (MST 5) STS	3
BM 142	3	BM 190	3
Econ 191	3	Econ 200	3
Econ 199	3	Econ Elective 3	3
PI 100	3	Econ Elective 4	3

1. Students may choose from the following list of Approved Elective Courses: Econ 151, 161, 171, 181, 196.

2. Junior Standing: A student must have passed 60 units including BM 99.1, BM 99.2, Econ 101, & Econ 102

\* Kas 1 and Fil 40 satisfy the 6-unit Philippine Studies requirement

*Note: As a requirement for graduation, all students must take six (6) units in one of the National Service Training Program (NSTP) components: Civic Welfare Training Service (CWTS), Literacy Training Service (LTS), and Reserved Officer's Training Corps Military Science (ROTC Mil Sci). These are offered by UPD.*

<b>BACHELOR OF ARTS (APPLIED PSYCHOLOGY)</b>			
146 units			
APPROVAL 120th Special UPD UC : 02 April 2012   President AEPascual : 04 June 2012			
F I R S T Y E A R			
1st Semester 18 units		2nd Semester 18 units	
GE (AH 1) Free Choice	3	GE (AH 3) Eng 10	3
GE (AH 2) Free Choice	3	GE (SSP 3) Kas 1*	3
GE (SSP 1) Free Choice	3	GE (SSP 4) Free Choice	3
GE (SSP 2) Free Choice	3	GE (MST 2) Free Choice	3
GE (MST 1) Free Choice	3	Math 14	3
Math 11	3	Psych 101	3
PE	(2)	PE	(2)
S E C O N D Y E A R			
1st Semester 19 units		2nd Semester 20 units	
GE (AH 4) Fil 40*	3	GE (AH 5) Comm 3	3
GE (SSP 5) Philo 1	3	GE (MST 3) Free Choice	3
Chem 16	5	APSY 101	3
Psych 110	5	Psych 140	3
Psych 150	3	Psych 155	3
PE	(2)	BIO 11	5
		PE	(2)
S U M M E R			
(6) units			
NSTP (6)			
T H I R D Y E A R			
1st Semester 20 units		2nd Semester 17 units	
GE (MST 4) Free Choice	3	Psych 108	3
Anthro 1/Socio 101	3	Psych 118	5
Psych 115	5	APSY 181	3
Psych 170	3	APSY 182	3
Psych 180	3	Free Elective 1	3
APSY 156	3		
S U M M E R			
3 units			
Practicum 3			
F O U R T H Y E A R			
1st Semester 16 units		2nd Semester 15 units	
APSY Elective 1	3	GE (MST 5) STS	3
Psych 147	3	PI 100	3
Psych 162	4	APSY 199.2	3
APSY 199.1	3	Philo 160/Philo 171	3
Psych 135	3	APSY Elective 2	3

\* Kas 1 and Fil 40 satisfy the 6-unit Philippine Studies requirement

Note: As a requirement for graduation, all students must take six (6) units in one of the National Service Training Program (NSTP) components: Civic Welfare Training Service (CWTS), Literacy Training Service (LTS), and Reserved Officer's Training Corps Military Science (ROTC Mil Sci). These are offered by UPD.

<b>MASTER OF MANAGEMENT</b>			
30 units			
APPROVAL 101st UPD UC : 12 December 2007   President ERRoman : 18 December 2007			
F I R S T Y E A R			
1st Trimester 6 units		2nd Trimester 6 units	
Mgmt 201	2	Mgmt 202	2
Mgmt 211	2	Mgmt 204	2
Mgmt 220	2	Mgmt 240	2
3rd Trimester 6 units			
Mgmt 221	2		
Mgmt 222	2		
Mgmt 230	2		
S E C O N D Y E A R			
1st Trimester 6 units		2nd Trimester 6 units	
Elective 1	2	Mgmt 290	2
Elective 2	2	Elective 4	2
Elective 3	2	Elective 5	2
3rd Trimester			
Comprehensive Examination			
Curricular Framework			
	Number of Subjects		
Tool Courses	3		
Core Courses	7		
Electives	5		
Comprehensive Examination	-		
Total	15		

**COURSE OFFERINGS****GENERAL EDUCATION COURSES****Araling Kapampangan**

- 10<sup>a</sup> **Mekeni Abe: Pangkalahatang Sarbey ng Kulturang Kapampangan.** Isang pangkalahatang pagtingin sa kultura ng rehiyon ng Pampanga kaugnay ang kasaysayan, panitikan, sining at sosyolohiya na nakapaloob dito. 3 u.

**Biology (Bio)**

- 1<sup>d</sup> **Contemporary Topics in Biology.** Recent developments in biology pertinent to concerns about the nature of life, health and related social issues. 3 u.

**Communication (Comm)**

- 1<sup>b</sup> **Communication Skills.** The development of advanced communicative competence in English (or Filipino), with emphasis on effective reading, writing, and listening skills. 3 u.
- 2<sup>b</sup> **Communication Skills.** The development of more advanced language skills in critical thinking and effective reading and writing. Prereq: Comm 1. 3 u.
- 3<sup>c</sup> **Speech Communication.** The development of communicative competence in listening and speaking in various communication situations. 3 u.

**Economics (Econ)**

- 11 **Markets and the State.** Essential economic concepts and their use in analyzing real-world issues. 3 u.

**English (Eng)**

- 1<sup>a</sup> **Basic College English.** Basic grammar, usage and composition skills in English. 3 u.
- 10<sup>a</sup> **College English.** The writing and critical reading of forms of academic discourse essential to university work. 3 u.

**Filipino (Fil)**

- 40<sup>a</sup> **Wika, Kultura at Lipunan.** Ang relasyon ng Filipino sa kultura at lipunang Pilipino. Prereq: Wala (Mas mainam na nasa ikalawang taon). 3 u.

<sup>a</sup>Arts & Humanities domain

<sup>b</sup>This part of a 2-semester course, Comm 1 and Comm 2 should be taken in the same language

<sup>c</sup>May be taken in English or Filipino

<sup>d</sup>Math, Science & Technology domain

**Kasaysayan**

- 1 **Kasaysayan ng Pilipinas.** The political, economic, social and cultural development of the Philippines. 3 u.
- 2 **Ang Asya at ang Daigdig.** A study of Asian cultural heritage in relation to world civilization. 3 u.

**Humanities (Hum)**

- 1<sup>c</sup> **Literature, Man and Society.** A study of various literary genres as the imaginative expression of the individual writer's experience and the society's values and ideals. 3 u.
- 2<sup>c</sup> **Art, Man, and Society.** A study of visual arts and music as products of the creative imagination in dynamic interaction with society. 3 u.

**Mathematics (Math)**

- 1<sup>d</sup> **Fundamental Concepts and Applications of Mathematics.** 3 u.
- 2<sup>d</sup> **Practical Mathematics.** Basic mathematics skills and applications in everyday life. 3 u.

**Natural Science (Nat Sci)**

- 1 **Foundations of Natural Science I.** Fundamental concepts, principles and theories of physics and chemistry. 3 u.
- 2 **Foundations of Natural Science II.** Fundamental concepts, principles and theories of earth and life sciences. 3 u.

**Science, Technology and Society (STS)**

**Science, Technology and Society.** The study of how science and technology shape and are shaped by society, its culture, values and institutions. An exploration of the ways science and other disciplines interact. Prereq: 4th year standing. 3 u.

**Philosophy (Philo)**

- 1 **Philosophical Analysis.** Application of basic concepts, skills and principles drawn from the Philosophy of Language, Symbolic Logic, Epistemology, Philosophy of Science and Ethics. 3 u.

**Social Science (Soc Sci)**

- 1 **Foundations of Behavioral Sciences.** A survey of basic concepts, principles, theories and methods of the behavioral sciences (Sociology, Psychology, Anthropology, Political Science, Economics, including Linguistics, Demography and Geography) and the dynamics of social change. 3 u.
- 2 **Social, Economic and Political Thought.** A survey of social, economic, and political thought from the classical to contemporary times. 3 u.

**Philippine Institutions (PI)**

**100 The Life and Works of Jose Rizal.** The significance of the life and writings of Rizal in the life of the Filipino people. Prereq: SS. 3 u.

**UNDERGRADUATE****Anthropology (Anthro)**

**1 General Anthropology.** Physical origin of man, his evolutionary development, nature of culture, and structure of social behavior. 3 u.

**UNDERGRADUATE****Applied Psychology (APSY)**

**101 Introduction to Applied Psychology.** Theories and concepts in psychology as applied to various aspects of human living. Prereq: Psych 101. 3 u.

**151 Personal Growth.** An introduction to the concept of personal growth and the different perspectives and approaches related to nurturing oneself. Prereq: Psych 101, Psych 150. 3 u.

**156 Introduction to Clinical Psychology.** Overview of major aspects of clinical psychology including its perspectives, historical background. Assessment and intervention models and trends. Prereq: Psych 155. 3 u.

**172 Psychology Applied to Education.** An overview of the applications of psychological perspectives of learning and child development in school setting. Prereq: Apsy 101. 3 u.

**181 Introduction to Community Psychology.** An introduction to principles, theories, trends and issues in community psychology. Prereq: Apsy 101, Psych 155. 3 u.

**182 Introduction to Industrial-Organizational Psychology.** Theories and principles of psychology particular to the industrial/organizational setting. Prereq: Psych 180. 3 u.

**183 Human Resource Development.** Theories and applications of psychology in human resource development including training and organizational development processes. Prereq: Apsy 101.3 u.

**184 Group Psychology.** Psychological principles applied to group dynamics and processes such as learning, communication, group formation and development. Prereq: Apsy 101, Psych 180. 3 u.

**Practicum.** Practical application of psychological theories in the hospital or school setting, as hospital volunteers or aides to guidance counselors, teachers, psychologists, and psychiatrists. Prereq: SS, COI. (8 h. orientation and observation; 120 h. internship) 3 u.

**199.1 Research in Applied Psychology I (Thesis Writing 1).** Supervised discussion of research methods, instrumentation, and preparation of a research proposal in applied psychology. Prereq: Senior Standing. 3 u.

**199.2 Research in Applied Psychology II (Thesis Writing 2).** Supervised data collection, analysis, interpretation and reporting of findings of an applied research. Prereq: Senior Standing. 3 u.

**Psychology**

**11 Principles of Psychology.** Principles of the science of psychology. 3 u.

**101 General Psychology.** The empirical and conceptual foundations of psychology in its main fields. Primarily for students who desire an intensive preparation for the more advanced courses in psychology. 3 u.

**108 Sikolohiyang Pilipino.** Kabuluhan at gamit ng Sikolohiyang Pilipino bilang isang agham na may perspektibo at oryentasyong maka-Pilipino; mga batayan at pilosopiya ng mga katutubong pamamaraan ng pananaliksik. (Significance and application of Filipino Psychology as a science with a Filipino perspective and orientation; bases and philosophy of indigenous research methods.) Kailangan: Psych 101, JS. 3 u.

**110 Psychological Statistics.** Statistical techniques in the design, analysis, and interpretation of psychological studies. Prereq: Psych 11/101, Math 11. 5 u.

**115 Experimental Psychology.** Principles of experimental inference; experimental design in behavior research. Prereq: Psych 11/101, 110. 9 h. (3 class, 6 lab). 5 u.

**118 Field Methods in Psychology.** The principles and practices of psychological research in natural environments, including systematic observation, unobtrusive measures, interviewing, and field experiments. Prereq: 6 u. of psych courses. 5 u.

**135 Perception.** Principles of perception in the major sense modalities; methods of investigation. Prereq: Psych 11/101, 115/written consent. 3 u.

**140 Principles of Learning.** Basic behavioral process in terms of experimental learning theory. Prereq: Psych 11/101/written consent. 3 u.

**145 Psychology of Language.** Prereq: Psych 140/COI. 3 u.

**147 Cognitive Processes.** Prereq: Psych 101. 3 u.

**150 Personality.** Systematic approaches to the understanding of personality formation and dynamics. Prereq: Psych 11/101/written consent. 3 u.

**155 Abnormal Behavior.** Prereq: Psych 140/COI. 3 u.

- 160 Physiological Psychology.** Prereq: SS. 6 h. (3 lec, 3 lab) 4 u.
- 162 Psychological Measurement.** Theory and applications. Prereq: A course in stat. 4 u.
- 163 Psychological Assessment in Various Settings.** An overview of psychological assessment and testing, including principles of assessment interview, test selection, evaluation and report production. Prereq: Psych 162. 3 u.
- 170 Human Development.** A general introduction to the area of human development focusing on the physical, social, emotional, moral, and cognitive developmental changes happening in a person throughout the lifespan. Prereq: Psych 101. 3 u.
- 171 Child Psychology.** A systematic study of the behavior of normal children with emphasis on socialization and personality development. Prereq: Psych 11/101, written consent. 3 u.
- 180 Social Psychology.** Experimental investigation of group behavior, emotions, motivations and personality dynamics in social behavior and social learning, and perception in small groups and in cultural contexts. Prereq: Written consent. 3 u.
- 191 Readings in Psychology.** Prereq: Advanced standing, COI. 3 u.; may be taken twice.

## UNDERGRADUATE

### Biology

- 11 Fundamentals of Biology I.** The fundamentals of biology from the molecular and cellular levels up to organ systems of organization. Prereq: Chem 16/equiv. 9 h. (3 lec, 6 lab) 5 u.

### Business Economics

- 101 Macroeconomics.** National income accounting; consumption; investments; employment and income determination; analysis of prices and wages; fiscal and monetary policies; international trade; economic growth. 4 u.
- 102 Microeconomics.** Demand and supply; price determination; theory of the consumer; theory of the firm; analysis of markets; income distribution; general equilibrium and welfare. 4 u.
- 106 Elements of Mathematical Economics.** Mathematical approaches to elementary economic theory. Prereq: Math 100, Econ 101, Econ 102. 3 u.
- 109 History of Economic Doctrines.** Survey of the development of economic analysis and doctrines. Prereq: Econ 101, 102. 3 u.
- 111 Introductory Economic History.** Economic change in Europe and selected countries. Prereq: Econ 101/COI. 3 u.
- 112 Asian Economic History.** History of economic changes and development in China, Japan, and other Asian countries. Prereq: Econ 101, 102. 3 u.
- 115 Philippine Economic History.** Economic change in the Philippines, with emphasis on conditions since 1900. 3 u.
- 116 The Economies of Asia.** A survey of economic development in the countries of the region. Prereq: Econ 101, Econ 102. 3 u.
- 121 Money and Banking.** Nature and role of money; banks and other financial intermediaries; central banking and conduct of monetary policy; banking regulations; efficient markets theory; international financial system. Prereq: Econ 101, Econ 102. 3 u.
- 131 Quantitative Economics.** Representation of economic phenomena in terms of elementary mathematical and statistical models. Prereq: Econ 101, 102, Math 100, 101. 6 h. (3 lec, 3 lab) 4 u.
- 141 International Economics.** International trade and finance; commercial policy; macroeconomics of an open economy. Prereq: Econ 101, Econ 102. 3 u.
- 151 Public Economics.** Market failures; role of government in the economy; welfare economics; public choice; government revenues, expenditures, and borrowings; impact of government policies. Prereq: Econ 101, Econ 102. 3 u.
- 161 Industrial Organization.** Firm and industry behavior under different market conditions; pricing, product and investment decisions; public policies towards business; business and its environment. Prereq: Econ 101, Econ 102. 3 u.
- 171 Economics of Agriculture.** Agriculture in strategies for economic development; economics of rural institutions; problems and policies in the agricultural sector. Prereq: Econ 101, Econ 102. 3 u.
- 181 Labor Economics.** Determinants of wage levels and wage structure; employment; productivity; industrial relations; aspects of human capital theory. Prereq: Econ 101, Econ 102. 3 u.
- 191 Development Economics.** Theories and problems of growth and developmental survey of the experience in low-income and high-income countries. Prereq: Econ 101, Econ 102. 3 u.
- 196 Urban and Regional Economics.** Introduction to location theory; the urban economy; regional income theory; regional interdependence. Prereq: Econ 101, 102. 3 u.
- 198 Special Topics in Economics.** Prereq: COI. 3 u.
- 199 Research Methods.** Prereq: COI. 3 u.
- 200 Thesis.** Prereq: Econ 199. 3 u.



## UNDERGRADUATE

Business Management (BM)

- 99.1 Fundamental Accounting Theory and Practice I.** Fundamental accounting theory and terminology with reference to accounting practice and management's use of accounting data. Prereq: SYS. 3 u.
- 99.2 Fundamental Accounting Theory and Practice II.** Continuation of Fundamental Accounting Theory and Practice I. Prereq: BM 99.1. 3 u.
- 101 Introduction to Management.** Principles and techniques of business organization and management. An introduction to case problem solving. Prereq: SYS. 3 u.
- 102 Business Environment.** The context in which business operates. 3 u.
- 104 Organizational Behavior.** The concepts and principles of behavior in business organizations. Prereq: BM 101/COI. 3 u.
- 105 Production Management.** Production principles, procedures and techniques for efficient utilization of production resources. Prereq: BM 101/COI. 3 u.
- 115 Management Accounting.** Uses of economic and accounting concepts for managerial planning and control. Prereq: BM 99.1, 99.2. 3 u.
- 121 Entrepreneurship.** Prereq: BM 101. 3 u.
- 126 Introduction to Information Systems.** Prereq: BM 101. 3 u.
- 127 Management of Technology in Business.** Prereq: JS. 3 u.
- 141 Business Finance I.** Introduction to the principles governing financial management of business enterprises with emphasis on short-range planning and management of working capital. Prereq: BM 115/COI. 3 u.
- 142 Business Finance II.** Long-range planning and management of the long-term financial position of a business organization; recapitalization and liquidation. Prereq: BM 115, 141. 3 u.
- 144 Financial Institutions.** Study of the structure, functions and operations of financial institutions, money and capital markets. Prereq: Econ 121/COI. 3 u.
- 145 Investments.** Principles and practices with special emphasis on the evaluation of project studies, security analysis and the establishment of standards for the selection of industry, issue, and security. Prereq: Econ 121, SS. 3 u.
- 148 Special Topics in Finance.** Prereq: SS. 3 u.
- 153 Human Resource Management.** Factors and objectives which shape personnel policies of employers and practices which effectuate these policies. Prereq: BM 101. 3 u.
- 161 Basics of Business Law.** 3 u.
- 168 Special Topics in Business Law.** Prereq: BM 161. 3 u.
- 170 Marketing Management.** Principles, practices and development of integrated marketing programs. Prereq: JS. 3 u.
- 171 Marketing Management II.** Marketing management from the point of view of the firm covering the other tools available or used by the marketing unit of the firm - promotions/ advertising, channels of distribution, marketing research, marketing planning and control, and the marketing organization. Prereq: BM 170/COI. 3 u.
- 174 Marketing Research.** A survey of the techniques used in marketing research. Selected problems in the analysis of sales records, sales forecasting, estimating sales potentials, sampling consumer demand, determining the factors which influence demand for specific goods. Prereq: BM 171. 3 u.
- 178 Seminar in Marketing Management.** Prereq: BM 171. 3 u.
- 180 Business Statistics.** Statistical graphics, basics of sampling, estimation, hypothesis testing, linear regression, analysis of variance, contingency tables, forecasting, and statistical quality control. Prereq: Math 17. 6 h. (3 lec, 3 lab). 4 u.
- 181 Management Science I.** Analysis and solution of management problems; deterministic models; linear and integer programming, transportation models, assignment models, inventory management, and project management models. Prereq: Math 100, BM 180. 3 u.
- 182 Management Science II.** Analysis and solution of management problems; stochastic models; decision theory, Markov processes, queueing, simulation, forecasting, regression, and other statistical applications. Prereq: BM 180, BM 181. 3 u.
- 183 Computer Methods and Applications.** The uses of computers in the solution of management problems. Includes programming solutions to quantitative problems, simulation, experimentation, and basic decision model-building. Prereq: BM 181. 3 u.
- 186 Operations Management.** Introduction to strategic and operational decisions in manufacturing and service operations. Prereq: BM 101, BM 180. 3 u.
- 190 Strategic Management.** Integration of the functional fields of business, stress being given to solving comprehensive case problems of business organization and management. Prereq: GS. 3 u.

198 **Special Topics in Management.** 3 u.

199 **Research Methods in Business.** Prereq: GS. 3 u.

#### UNDERGRADUATE

##### Chemistry (Chem)

16 **General Chemistry I.** Fundamentals of Chemistry. Prereq/ Coreq: Math 11/equiv. 9 h. (3 class, 6 lab) 5 u.

#### UNDERGRADUATE

##### Mathematics (Math)

11 **College Algebra.** Linear equations; algebraic and graphical solutions of the quadratic equations; exponents and radicals; complex numbers; binomial expansion; determinants; progressions; theory of equations. Prereq: 1 yr. of high school algebra. 3 u.

14 **Plane Trigonometry.** Logarithms; graphs of the trigonometric functions; the general triangle; solutions of trigonometric; inverse trigonometric; exponential and logarithmic equations; complex numbers. Prereq: 1 yr. of high school algebra, 1 yr. of plane geometry. 3 u.

17 **Algebra and Trigonometry.** Sets and numbers; the algebra of numbers as a logical system; inequalities; absolute values and coordinate systems; functions and graphs; circular, linear, quadratic, and polynomial functions; exponential and logarithmic functions; applications of the circular functions to angles. Prereq: 1 yr. of high school algebra. 5 u.

100 **Introduction to Calculus.** Limits, derivatives; integrals; applications. Prereq: Math 17/COI. 4 u.

101 **Elementary Statistics.** Presentation of data; frequency distribution; central tendencies; index numbers; dispersion; normal curve; poisson curve; correlations; sampling distribution; elements of statistical inference. Prereq: Math 11/17. 3 u.

#### UNDERGRADUATE

##### Philosophy (Philo)

160 **Philosophy of Science.** Nature of scientific inquiry; problems of demarcation, explanation, prediction, concepts formation and validation. Prereq: COI, SS. 3 u.

171 **Ethics.** Problems and theories of moral values. 3 u.

#### UNDERGRADUATE

##### Physics

21 **Introductory Physics.** Survey of mechanics, heat, electricity and magnetism, waves, optics, and modern physics. Prereq: Math 11/equiv. 4 u.

21.1 **Introductory Physics Laboratory.** Coreq: Physics 21. 2 h. (lab) 1 u.

#### UNDERGRADUATE

##### Political Science (Pol Sci)

14 **Philippine Government and Politics.** Development, organization and operation of the Philippine political systems, with emphasis on the present. 3 u.

160 **Society, Politics, and Government.** Society as the matrix of politics; political power and leadership; patterns of decision-making; political modernization and development. Prereq: Pol Sci 11/COI. 3 u.

#### UNDERGRADUATE

##### Sociology (Socio)

101 **General Sociology.** Theoretical concerns of the fields of sociology and the various techniques in the study of social realities. Prereq: JS. 3 u.

#### UNDERGRADUATE

##### Zoology (Zoo)

10 **Fundamentals of Zoology.** Basic aspects and principles of zoology. 9 h. (3 class, 6 lab) 5 u.

#### GRADUATE

##### Business Management (BM)

236 **International Marketing.** Export-import trade with emphasis on analyzing the commercial feasibility of export products. Prereq: Mgmt 230. 2 u.

238 **New Enterprise Planning and Management.** Problems involved in planning and founding new enterprises. Examination of business opportunities. Prereq: Mgmt 222, 230, 240. 2 u.

## GRADUATE

Educational Management (EDM)

- 222 Management and Supervision of Instruction.** 2 u.
- 242 Supervised Field Practice in School Administration.** Statistical and research concepts, tools and methods applicable to educational management. 2 u.
- 298 Seminar in Educational Management.** Prereq: COI. 2 u.

## GRADUATE

Management (Mgmt)

- 201 Theory and Practice of Management.** Concepts, principles and practices of managing institutions. 2 u.
- 202 Organizational Behavior.** Individual and group behavior in organizations, including leadership, interpersonal processes, organizational design and organizational culture. 2 u.
- 204 Economic Analysis.** Economic theory and policy with reference to managing the institution, organization or entity. 2 u.
- 205 Managerial Economics.** Application of key microeconomic tools to problems in the organization, focusing on issues of firm performance, market, competitive analysis, strategic positioning and dynamics, governance, incentive conflicts, executive compensation, and organizational structure. Prereq: Mgmt 204, Mgmt 211 and completion of minimum six (6) core courses in the curriculum or COI. 2 u.
- 209 Seminar in Management.** Prereq: Mgmt 201. 2 u.
- 211 Management Science.** Quantitative analysis and solution of management problems. 2 u.
- 219 Seminar in Management Science.** Prereq: Mgmt 211. 2 u.
- 220 Management Accounting.** Accounting as an information system to assist the manager in planning and monitoring the entity's operations. 2 u.
- 221 Management Control.** Principles and practices of motivating managers to attain entity objectives and high performance, using management accounting information systems. Prereq: Mgmt 220. 2 u.

- 222 Financial Management.** Planning and evaluating fund flows of short-term (working capital) and long-term (capital) investments and their funding, maximizing attainment of the organization's goals. Prereq: Mgmt 204, 220. 2 u.
- 229 Seminar in Financial Management.** Prereq: Mgmt 222. 2 u.
- 230 Marketing Management.** Principles and practices of the marketing function, product (physical or service) development to post product-delivery. 2 u.
- 239 Seminar in Marketing Management.** Prereq: Mgmt 230. 2 u.
- 240 Production Management.** Strategic and tactical decisions in the design and management of products (physical or service), processes, facilities and systems, quality assurance, etc. 2 u.
- 249 Seminar in Production/Operations Management.** Mgmt 240. 2 u.
- 250 Human Resource Management.** Principles and practices in managing the organization's manpower as a crucial resource for success of the establishment. 2 u.
- 259 Seminar in Human Resource Management.** Prereq: 250. 2 u.
- 260 Management Law.** Principles, concepts and practices of general and special laws as they affect effective management of the institution. 2 u.
- 290 Strategic Management.** Strategy concepts and practices; environmental and organizational analyses in formulating and implementing overall and long-term policies and plans of the organization. Prereq: Mgmt 202, 222, 230, 240. 2 u.

## GRADUATE

Public Management (PM)

- 241 Public Policy and Program Administration.** Planning, implementation and evaluation of development programs. Prereq: COI. 2 u.
- 251 Local Government and Regional Administration.** Theoretical and empirical perspectives of local government and regional administration; issues on central-local relations, community and institutional development and area management. Prereq: COI. 2 u.