



UNIVERSITY OF THE PHILIPPINES MINDANAO

Office of the University Registrar

BACHELOR OF SCIENCE IN BIOLOGY

Approved on June 26, 2003

FIRST YEAR, FIRST SEMESTER

Course No.	Course Description	Lecture	Lab	Units	Prerequisite/s
BIO 1	General Biology I	2	1	3	
CHEM 16	General Chemistry I	3	2	5	
MATH 11	College Algebra	3		3	
GE		3		3	
GE		3		3	
GE		3		3	
PE 1	Foundations of Physical Fitness	(2)		(2)	
NSTP 1	National Service Training Program	(3)		(3)	
				20	

FIRST YEAR, SECOND SEMESTER

Course No.	Course Description	Lecture	Lab	Units	Prerequisite/s
BIO 3	Biodiversity	3	2	5	Bio 1
CHEM 17	General Chemistry II	3	2	5	CHEM 16 & MATH 11
MATH 14	Plane Trigonometry	3		3	MATH 11
GE		3		3	
GE		3		3	
PE 2/4		(2)		(2)	
NSTP 2	National Service Training Program	(3)		(3)	
				19	

SECOND YEAR, FIRST SEMESTER

Course No.	Course Description	Lecture	Lab	Units	Prerequisite/s
BIO 70	Earth's Processes & Biological Systems	3		3	BIO 2 or BIO 3 or BOT 1 & ZOO 1 & CHEM 16
BOT 3	Intermediate Botany	2	1	3	BIO 2 or BIO 3 or BOT 1
CHEM 31	Elementary Organic Chemistry	3		3	CHEM 17
CHEM 31.1	Elementary Organic Chemistry Laboratory		2	2	CHEM 17
MCB 1	General Microbiology	2	1	3	
PHYS 3	General Physics I	2	1	3	MATH 14
GE		3		3	
PE 2/4		(2)		(2)	
				20	

SECOND YEAR, SECOND SEMESTER

Course No.	Course Description	Lecture	Lab	Units	Prerequisite/s
BIO 30	Genetics	2	1	3	BIO 2 or BIO 3 or BOT 1 & ZOO 1
BIO 150	Principles of Ecology	2	1	3	BIO 2 or BIO 3 or BOT 1
CHEM 160	Introductory Biochemistry	3		3	CHEM 31 & CHEM 31.1
ZOO 3	Intermediate Zoology	2	1	3	
GE		3		3	
GE		3		3	
PE 2/3/4		(2)		(2)	
				18	

THIRD YEAR, FIRST SEMESTER

Course No.	Course Description	Lecture	Lab	Units	Prerequisite/s
BIO 101	Introductory Molecular Biology	3		3	BIO 30 & CHEM 160
FIL 1	Sining ng Pakikipagtalastasan	3		3	
STAT 1	Elementary Statistics	2	1	3	MATH 11
	MAJOR			3	
	MAJOR			3	
GE		3		3	
GE		3		3	
				21	

THIRD YEAR, SECOND SEMESTER

Course No.	Course Description	Lecture	Lab	Units	Prerequisite/s
BIO 120	Cell Biology	2	1	3	BIO 101
ENG 10	Writing of Technical/Scientific Papers	3		3	Junior Standing
	MAJOR			3	
	MAJOR			3	
	MAJOR (BIO 200 Outline)	2		2	
GE		3		3	
GE		3		3	
				20	

FOURTH YEAR, FIRST SEMESTER

Course No.	Course Description	Lecture	Lab	Units	Prerequisite/s
BIO 140	Evolutionary Biology	3		3	BIO 30
BIO 199a	Undergraduate Seminar	1		1	
	ELECTIVE			3	
	MAJOR			3	
	MAJOR			3	
	MAJOR (BIO 200)	2		2	
GE		3		3	
GE		3		3	
				21	

FOURTH YEAR, SECOND SEMESTER

Course No.	Course Description	Lecture	Lab	Units	Prerequisite/s
BIO 199b	Undergraduate Seminar	1		1	
PI 100	The Life & Works of Jose Rizal	3		3	
	ELECTIVE			3	
	MAJOR			3	
	MAJOR			3	
	MAJOR (BIO 200)	2		2	
GE		3		3	
				18	

TOTAL NUMBER OF UNITS - 157

NOTE: the specification of the domain [i.e., GE (AH), GE (SSP) and GE (MST) of the GE courses for any semester is intended primarily to help the students keep track of the number of GE units he/she has taken in each domain. Nothing in this document therefore prevents a student, for example, from taking a GE course in the AH or NSM domain, when the checklist provides a GE (SSP) course for a particular year or semester, so long as the number of required GE units in each domain is complied with.

General Education

ARTS and HUMANITIES DOMAIN (15 units)		SOCIAL SCIENCE and PHILOSOPHY DOMAIN (15 units)		NATURAL SCIENCE and MATHEMATICS DOMAIN (15 units)	
AH 1	COMM I	SSP 1	HIST I	MST 1	NASC I
AH 2	COMM II	SSP 2	HIST II	MST 2	NASC II
AH 3	COMM III	SSP 3	SOSC I	MST 3	MATH I
AH 4	HUM I	SSP 4	SOSC II	MST 4	STS
AH 5	HUM II	SSP 5	PHLO I	MST 5	Biotechnology & Society
AH 6	Visual Comm & Society	SSP 6	Wika at PagkaPilipino	MST 6	Biodiversity Challenge
AH 7	Significant Themes in Lit	SSP 7	Hitchiker's Guide to Mindanao		

CELL BIOLOGY MAJOR

A student majoring in Cell Biology must complete 24 units consisting of 19 units in Major Core Courses and 5 units of Other Major Courses. All subjects listed as Major Core Courses are compulsory. For the Major Option, a student can choose from one of the given alternatives. Finally, any combination of subjects can be taken as electives as long as they total at least 6 units.

MAJOR CORE COURSES (19 units)

Course No.	Course Description	Lecture	Lab	Units	Prerequisite/s
BIO 102	Cytology	2	1	3	BIO 30
BIO 121	Developmental Cell Biology	3		3	BIO 120 or COI
BIO 130a	Advanced Genetics I	3		3	BIO 30
ZOO 113	Comparative Vertebrate Anatomy	3	2	5	ZOO 1 or BIO 2 or BIO 3
ZOO 120	Animal Physiology	3	2	5	ZOO 113 & CHEM 160

OTHER MAJOR COURSES (5 units)

Course No.	Course Description	Lecture	Lab	Units	Prerequisite/s
BIO 138	Molecular Genetics	3		3	BIO 101
BIO 180	Biological Microtechnique	1	2	3	BOT 3, ZOO 3, CHEM 31 & CHEM 31.1
BIO 190*	Special Problem	3		3	
BOT 20	Elementary Plant Physiology	2	1	3	BOT 1 or BIO 2 or BIO 3 & CHEM 16 or Chem 15
CHEM 160.1	Introductory Biochemistry Laboratory		2	2	CHEM 160 (can be concurrent)
MCB 120	Microbial Physiology	3		3	MCB 1 & CHEM 160
STAT 164	Statistics for the Biological Sciences	3		3	STAT 1
ZOO 115	Animal Histology	2	1	3	ZOO 113

* BIO 190 - to be taken only as Special Problem Option

MAJOR OPTION (6 units)

Course No.	Course Description
a. BIO 200	Undergraduate Thesis Option, 6 units
b. BIO 200a	Practicum Option, 6 units
c. BIO 190	Special Problem Option, 3 units, plus 3 units of additional major course
d.	All Course Option, 6 units of other major courses.

ELECTIVE COURSES (6 units)

Course No.	Course Description	Lecture	Lab	Units	Prerequisite/s
BIO 191	Special Topics	3		3	
BOT 110	Morphology & Anatomy of Plants	2	1	3	BOT 1 or BIO 3 or COI
ENT 101	General Entomology	2	1	3	BIO 2 or BIO 3 or ZOO 1
MATH 26	Analytical Geometry & Calculus I	3		3	MATH 14
MCB 102	General Virology	3		3	MCB 1
PSY 101	General Psychology	3		3	COI
STAT 162	Experimental Designs	2	1	3	STAT 1 or COI (for graduate students only)
WLDL 101	Introduction to Philippine Wildlife	2	1	3	BIO 2 or BIO 3 or ZOO 1
ZOO 146	Ornithology	1	2	3	ZOO 140 or COI
ZOO 148	Mammalogy	1	2	3	ZOO 140 or COI
ZOO 173	Introduction to Parasitology	2	1	3	ZOO 1 or BIO 2 or BIO 3

ECOLOGY MAJOR

A student majoring in Ecology must complete 24 units consisting of 17 units in Major Core Courses and 7 units of Other Major Courses. All subjects listed as Major Core Courses are compulsory. For the Major Option, a student can choose from one of the given alternatives. Finally, any combination of subjects can be taken as electives as long as they total at least 6 units.

MAJOR CORE COURSES (17 units)

Course No.	Course Description	Lecture	Lab	Units	Prerequisite/s
BIO 151	Environmental Management	3		3	BIO 150 or COI
BOT 150	Plant Ecology	2	1	3	BOT 140 or COI
MCB 150	Microbial Ecology	2	1	3	MCB 1
ZOO 113	Comparative Vertebrate Anatomy	3	2	5	ZOO 1 or BIO 2 or BIO 3
ZOO 150	Animal Ecology	1	2	3	ZOO 1 or BIO 2 or BIO 3

OTHER MAJOR COURSES (7 units)

Course No.	Course Description	Lecture	Lab	Units	Prerequisite/s
BIO 142	Principles of Systematic Biology	3		3	BIO 2 or BIO 3 or BOT 1 & ZOO 1
BIO 159	Conservation Biology	2	1	3	BIO 150 or COI
BIO 180	Biological Microtechnique	1	2	3	BOT 3, ZOO 3 & CHEM 31 & CHEM 31.1
BIO 190*	Special Problems	3		3	
BOT 20	Elementary Plant Physiology	2	1	3	BIO 2 or BIO 3 & CHEM 16 or CHEM 15
BOT 110	Morphology & Anatomy of Plants	2	1	3	BOT 1 or BIO 3 or COI
ENT 101	General Entomology	2	1	3	BIO 2 or BIO 3 or ZOO 1
STAT 164	Statistics for Biological Sciences	3		3	STAT 1
WLDL 101	Introduction to Philippine Wildlife	2	1	3	BIO 2 or BIO 3 or ZOO 1
ZOO 120	Animal Physiology	2	1	3	ZOO 113 & CHEM 160
ZOO 140	Animal Taxonomy	2	1	3	BIO 2 or BIO 3 or ZOO 1
ZOO 146	Ornithology	1	2	3	ZOO 140 or COI
ZOO 148	Mammalogy	1	2	3	ZOO 140 or COI
ZOO 151	Marine Zoology	2	3	5	ZOO 140 or COI

* BIO 190 - to be taken only as Special Problem Option

MAJOR OPTION (6 units)

Course No.	Course Description
a. BIO 200	Undergraduate Thesis Option, 6 units
b. BIO 200a	Practicum Option, 6 units
c. BIO 190	Special Problem Option, 3 units, plus 3 units of additional major course
d.	All Course Option, 6 units of other major courses.

ELECTIVE COURSES (6 units)

Course No.	Course Description	Lecture	Lab	Units	Prerequisite/s
BIO 138	Molecular Genetics	3		3	BIO 101
BIO191	Special Topics	3		3	
BOT 101	Phycology	2	1	3	BOT 1 or BIO 2 or BIO 3
MATH 26	Analytical Geometry & Calculus I	3		3	MATH 14
STAT 162	Experimental Designs I	2	1	3	STAT 1 or COI
ZOO 115	Animal Histology	2	1	3	ZOO 113
ZOO 145	Herpetology	1	2	3	ZOO 140
ZOO 173	Introduction to Parasitology	2	1	3	ZOO 1 or BIO 2 or BIO 3