

FORM 5B: SEMESTRAL DISTRIBUTION WITH PREREQUISITES AND COREQUISITES

**BACHELOR OF SCIENCE IN MARINE BIOLOGY
(List of Courses by Semester)
BOR Resolution No. _____, Series of 2017**

First Year, First Semester

Course No.	Course Title	Units	Hours/Week			Pre-requisite(s)
			Lec	Lab	Total	
PHY101	Mechanics, Electromagnetism and Gravitational Theory (Lec.)	2	2	0	2	None
PHY101.1	Mechanics, Electromagnetism and Gravitational Theory (Lab.)	1	0	3	3	None
MAT043	Calculus (Integrative)	4	4	0	4	None
CHM011	Inorganic Chemistry (Lec.)	2	2	0	2	None
CHM011.1	Inorganic Chemistry (Lab.)	1	0	3	3	None
BIO117	Cell and Molecular Biology	4	2	6	8	None
FIL101	Wika at Kultura sa Mapayapang Lipunan	3	3	0	3	None
PED001	Physical Fitness and Health	2	2	0	2	None
NST001	National Service Training Program 1	(3)	3	0	3	None
	Total	19(22)	18	12	30	

First Year, Second Semester

Course No.	Course Title	Units	Hours/Week			Pre-requisite(s)
			Lec	Lab	Total	
PHY102	Waves, Optics, and Thermodynamics (Lec.)	2	2	0	2	PHY101/ PHY101.1
PHY102.1	Waves, Optics, and Thermodynamics (Lab.)	1	0	3	3	PHY101/ PHY101.1
STT034	Inferential Statistics and Biometry	3	3	0	3	None
CHM032	Organic Chemistry (Lec.)	2	2	0	2	CHM011/ CHM011.1
CHM032.2	Organic Chemistry (Lab.)	2	0	6	6	CHM011/ CHM011.1
BIO118	General Physiology	3	2	3	5	BIO117
GEC111	Fundamentals of Computing	3	2	3	5	None
PED002	Dance/Martial Arts	2	2	0	2	PED001
NST002	National Service Training Program 2	(3)	3	0	3	NST001
	Total	18(21)	16	15	31	

Second Year, First Semester

Course No.	Course Title	Units	Hours/Week			Pre-requisite(s)
			Lec	Lab	Total	
OCN121	Geological and Physical Oceanography	4	2	6	8	PHY102, PHY102.1, MAT043
CHM045	Biochemistry (Lec.)	2	2	0	2	CHM032/ CHM032.2
CHM045.1	Biochemistry (Lab.)	1	0	3	3	CHM032/ CHM032.2
BIO119	Developmental and Reproductive Biology	3	2	3	5	BIO118
GEC101	Understanding the Self	3	3	0	3	None
GEC106	Art Appreciation	3	3	0	3	None
GEC105	Readings in Philippine History	3	3	0	3	None
PED003	Individual and Dual Sports	2	2	0	2	PED001
	Total	21	17	12	29	

Second Year, Second Semester

Course No.	Course Title	Units	Hours/Week			Pre-requisite(s)
			Lec	Lab	Total	
OCN122	Biological and Chemical Oceanography	4	2	6	8	CHM011/ CHM011.1
ERS100	Earth Science	3	2	3	5	None
BIO120	Ecology	3	2	3	5	STT034
GEC102	Purposive Communication	3	3	0	3	None
FIL102	Ekokritisismo at Pagpapahalaga sa Kalikasan	3	3	0	3	None
FPE101	Fundamentals of Peace Education	3	3	0	3	None
PED004	Team Sports	2	2	0	2	PED001
	Total	21	17	12	29	

Third Year, First Semester

Course No.	Course Title	Units	Hours/Week			Pre-requisite(s)
			Lec	Lab	Total	
MRB131	Marine Botany	4	2	6	8	MRB100
MRB132	Marine Zoology 1	4	2	6	8	BIO117
	Elective 1	3	2	3	5	None
BIO121	Genetics	4	3	3	6	STT034
GEC107	Ethics	3	3	0	3	None
HIS001	History of Muslim Filipinos and Indigenous Peoples of MINSUPALA	3	3	0	3	None
Total		21	15	18	33	

Third Year, Second Semester

Course No.	Course Title	Units	Hours/Week			Pre-requisite(s)
			Lec	Lab	Total	
MRB134	Marine Ecology	4	2	6	8	STT034, MRB131 & MRB132
MRB198	Elements of Research	3	2	3	5	STT034, 3 rd Year Standing
	Elective 2	3	2	3	5	None
GEC104	Mathematics in the Modern World	3	3	0	3	None
GEC103	The Contemporary World	3	3	0	3	None
MRB195	Fundamentals of Research (Development of Problem, Sampling Design & Method of the Study)	2	2	0	2	STT034, 3 rd Year Standing
Total		18	14	12	26	

Third Year, Summer

Course No.	Course Title	Units	Hours/Week			Pre-requisite(s)
			Lec	Lab	Total	
MRB197	Practicum	3			144	Third Year Standing

Fourth Year, First Semester

Course No.	Course Title	Units	Hours/Week			Pre-requisite(s)
			Lec	Lab	Total	
MRB145	Coral Reefs	3	2	3	5	MRB134
MRB143	Marine Zoology II	4	2	6	8	MRB132
	Elective 3	3	2	3	5	None
GEC108	Science, Technology and Society	3	3	0	3	None
GEC109	Life and Works of Rizal	3	3	0	3	None
MRB196	Experimental Research (Data Gathering & Data Analysis)	2	2	0	2	MB 195
Total		18	14	12	26	

Fourth Year, Second Semester

Course No.	Course Title	Units	Hours/Week			Pre-requisite(s)
			Lec	Lab	Total	
MRB146	Marine Microbiology & Fungi	4	2	6	8	MRB143
MRB148	Integrated Coastal/Marine Resources Management	4	2	6	8	MRB134
MRB147	Systematics, Biodiversity and Evolution	4	2	6	8	MRB134
MRB199	Undergraduate Thesis (Write-up & Presentation of Results)	2	2	0	2	MB 196
Total		14	8	18	26	

Grand Total = 153 (159) Units

List of Electives (9 Units)

Fish 100-Introduction to Fisheries	MRB112-Marine Mammals	MRB117-Marine Protected Areas	MRB122-Remote Sensing and Geographic Information System
Fish 143-Fisheries Management	MRB133-Marine Natural Products	MRB118-Marine Reptiles	
Fish 124-Aquaculture I	MRB114-Marine Plankton	MRB119-Meiofauna	MRB123-Scientific Diving
MRB110-Marine Birds	MRB115-Marine Plants	MRB120-Phycology	MRB124-Marine Biotechnology
MRB111-Marine Chemistry	MRB116-Marine Pollution	MRB121-Physiology of Marine Organisms	