



Iligan Institute of Technology
of the Mindanao State University
Quality Education for a better Mindanao

MASTER OF SCIENCE IN MARINE BIOLOGY

Introduction

The Master of Science in Biology is a consortium program of the Federation of Institutions for Marine and Freshwater Sciences.

Objectives

1. To establish an independent center for the development of instruction, research and extension program in Marine Sciences in the Visayas and Mindanao.
2. To upgrade manpower and facilities of member institutions enabling them to offer a graduate program at the masteral level and ultimately to aptly provide them with the capabilities to develop an internationally recognized institution offering a Ph. D. degree program.
3. To promote an atmosphere of cooperation and coordination among member institutions concerned with the development of marine science.
4. To provide a channel to share and exchange physical and human resources in areas of common interests in marine science among member institutions.

Admission Requirements at MSU-IIT

Admission on a regular status to the M.S. in Marine Biology program requires:

1. Possession of a B.S. Marine Biology degree, or a baccalaureate degree in Biology, Zoology, Botany, Fisheries and related fields with completion of the following courses:

Oceanology	4 units
Marine Plants/Algae	4 units
Marine Invertebrates	4 units
Marine Vertebrates	4 units

2. A grade point average of 2.5 (or its equivalent) or better in the undergraduate degree.

3. Two letters of recommendation from former instructors in undergraduate major (marine biology) courses attesting to the student's intellectual capacity for graduate studies in marine biology.

Probationary admission may be given to baccalaureate degree holders in Biology, Botany, Zoology, Fisheries and other related fields provided that:

- a. They take the four courses under no. 1 above within their first 3 semesters in the program;
- b. While in the program, they obtain a grade point average of 2.0 or better in the graduate courses and a grade point average of 2.5 or better in the required undergraduate courses;
- c. They carry a full load of 10-12 units per semester in the program; and
- d. Comply with the 2.5 grade point average for their undergraduate degree and submit two (2) letters of recommendation from former instructors of their undergraduate major courses.

Degree Requirements

To qualify for the M.S. in Marine Biology degree, a student must:

- a. Successfully complete a minimum of 37 units of course work specified in his program of study with a grade point average of 2.0 or better.
- b. Successfully defend orally a thesis proposal and a thesis before a panel.
- c. Present his thesis in a seminar.

A. Core Courses (15 units)

Bio	298	Advanced Research Methodology	3 units
Ocea	211	Biological Oceanography	3 units
Ocea	221	Physical Oceanography	3 units
Ocea	231	Chemical Oceanography	3 units
Stat	233	Biostatistics	3 units

B. Cognate Courses (minimum of 6 units)

Bio	201	Microtechnique	3 units
Bio	213	Advanced Parasitology	3 units
Bio	251	Advanced Genetics	3 units
Bio	261	Developmental Biology	3 units
MB	212	Advanced Invertebrate Zoology	3 units
MB	217	Ichthyology	3 units

C. Major Courses (minimum of 9 units)

Bio	211	Advanced Systematics	3 units
MB	203	Marine Microbiology	3 units
MB	214	Marine Planktonology	3 units
MB	221	Advanced Marine Ecology	3 units
MB	226	Marine Ecosystems	3 units
MB	228	Marine Productivity	3 units
MB	229	Marine Pollution	3 units
MB	240	Marine Toxicology	3 units
MB	241A	Morphology and Physiology of Marine Animals	3 units
MB	241B	Morphology and Physiology of Marine Plants	3 units
MB	292	Marine Resource Management	3 units
MB	293	Mariculture	3 units
MB	294	Fisheries Biology	3 units
MB	298	Marine Methodology	3 units

D. Other Required Courses (7 units)

MB	296	Seminar in Marine Biology	1 unit
MB	300	Masteral Thesis	6 units

MASTER OF SCIENCE IN MARINE BIOLOGY (M.S. Mar. Bio.)
(LIST OF COURSES BY SEMESTER)

First Year, First Semester

Course No.	Course Title	Units	Hrs/Wk			Prerequisite(s)
			Lec	Lab	Total	
Bio 298	Advanced Research Methodology	3	3	0	3	
Ocea 211	Biological Oceanography	3	2	3	5	
Stat 233	Biostatistics	3	3	0	3	
MB 296	Seminar in Marine Biology	1	1	0	1	
	Total	10	9	3	12	

First Year, Second Semester

Course No.	Course Title	Units	Hrs/Wk			Prerequisite(s)
			Lec	Lab	Total	
Ocea 221	Physical Oceanography	3	2	3	5	
Ocea 231	Chemical Oceanography	3	2	3	5	
Elective 1		3				
Elective 2		3				
	Total	12				

First Year, Summer

Course No.	Course Title	Units	Hrs/Wk			Prerequisite(s)
			Lec	Lab	Total	
Elective 3*		3				
	Total	3				

Second Year, First Semester

Course No.	Course Title	Units	Hrs/Wk			Prerequisite(s)
			Lec	Lab	Total	
Cognate1		3				
Cognate2		3				
Elective 4		3				
	Total	9				

Second Year, Second Semester

Course No.	Course Title	Units	Hrs/Wk			Prerequisite(s)
			Lec	Lab	Total	
	(Comprehensive Exam)**					
	(Thesis Proposal Defense)**					
MB 300	Masteral Thesis	6				
	Total	6				

Second Year, Summer

Course No.	Course Title	Units	Hrs/Wk			Prerequisite(s)
			Lec	Lab	Total	
MB 300	Masteral Thesis					
	Total					

Third Year, First Semester

Course No.	Course Title	Units	Hrs/Wk			Prerequisite(s)
			Lec	Lab	Total	
MB 300	Masteral Thesis					
	Total					

Third Year, Second Semester

Course No.	Course Title	Units	Hrs/Wk			Prerequisite(s)
			Lec	Lab	Total	
MB 300	Masteral Thesis					
	(Thesis Defense)**					

* May be taken in the first semester of the second year

** May be enrolled/conducted either in the first or second semester/summer term