FAU	NEW/CHANGE PROGRAM REQUEST Graduate Programs Department Marine Science and Oceanography College Science		UGPC Approval UFS Approval Banner	
FLORIDA ATLANTIC			Catalog	
UNIVERSITY				
Program Name New Program*		Effective Date (TERM & YEAR)		
Marine Science a	nd Oceanography Master of Science	Change Program*	Spring 2024	
Please explain the requested change(s) and offer rationale below or on an attachment.				
trends. - Within the requi	g the GRE requirements for the program con red courses, we are adding the Marine Scie rement. Both of these are one credit semin ny.	nce Seminar (BSC 6938) as a	n 'OR' with the Marine Science	
programs, specifi successful and co	anges will help bring the MSO program regu cally the MS in Biology. We are bringing in r ampleting proposals and defending on time	equirements that have made	e MS in Biology students more	
requirements.	pecific references to the MSO program regu			
_	ne required thesis proposal and defense co lits of 'research', which students were prev		•	
- We are adding re - We are adding a	eferences to the non-thesis comprehensive one credit course to be taken the semester g program information about the masters a	that students will complete	their comprehensive exams.	

*All new programs and changes to existing programs must be accompanied by a catalog entry showing the new or proposed changes.

Faculty Contact/Email/Phone Marianne Porter; mporte26@fau.edu; 7-1288	Consult and list departments that may be affected by the change(s) and attach documentation NA	
Approved by	Date	
Department Chair	8/26/2023	
College Curriculum Chair	August, 28, 2023	
College Dean A X2 24	08/28/2023	
UGPC Chair	Sep 14, 2023	
$Q_{i} \cap Q_{i}$	Sep 14, 2023	
Graduate College Dean	Sep 14, 2023	
UFS President		
Provost		

Email this form and attachments to UGPC@fau.edu 10 days before the UGPC meeting.

Biology PhD program.

Blue: additions

MARINE SCIENCE AND OCEANOGRAPHY MASTER OF SCIENCE (M.S.)

(Minimum of 37 credits required)

This is an interdisciplinary program designed to provide students with specialized training in Marine Science and Oceanography. It is jointly administered by the Charles E. Schmidt College of Science (CESCS) and the Harbor Branch Oceanographic Institute (HBOI). Participating faculty have appointments at CESCS and HBOI.

Students are required to take most of the coursework spread across the core subject areas listed below. The exact courses taken are to be determined by students and their advisory committees. Application deadline is January 15 for the fall semester and October 15 for the spring semester.

Admission Requirements

In addition to meeting all of the University and College admission requirements for graduate study, each applicant for the M.S. with Major in Marine Science and Oceanography must:

- 1. Have minimum GRE scores of 151 (verbal) and 151 (quantitative). GRE scores more than five years old will not be accepted.
- 1. Have a minimum 3.0 GPA for the last 60 credits of undergraduate work.
- 2. Provide two letters of recommendation.
- 3. Obtain a "sponsor" from within the faculty of this master's program who will then act as the student's advisor until a thesis topic has been chosen.

For sponsor selection suggestions, students should go to the departmental webpages to examine the fields and interests of individual faculty members. Once students find a faculty member in their field of interest, they should contact the faculty member directly. The student's application package must contain a signed sponsor form from the selected faculty member.

Blue: additions

Degree Requirements

Students may graduate with a thesis or non-thesis master's degree; both require the successful completion of 37 credits as described below.

Thesis Option

A student curriculum consists of a minimum of 37 graduate credits taken in the following three categories:

Required Courses: Four Six courses (12 10 credits) are required for all students in the master's degree program in Marine Science and Oceanography.

Required Courses		
Physical and Geological Oceanography	OCE 6097	3
Biological Oceanography	OCB 6066	3
Chemical Oceanography	OCC 6050	3
Marine Science and Oceanography Thesis Proposal	OCE 6974	1
Marine Science and Oceanography Defense	OCE 6975	1
Marine Science and Oceanography	OCE 6922 OR	1
Colloquium_OR Marine Science Seminar	BSC 6938	1
Total Research Core		10 12

Electives: 15 to 21 credits from the approved course list. Up to 6 credits designated as "Special Topics" courses may be taken with the approval of the thesis advisor. No more than 6 credits of electives taken outside the approved course list will be counted toward the degree. No courses under the 5000 level may be taken. No more than 3 credits of Marine Science and Oceanography Directed Independent Research (OCE 6908) may be counted toward this degree.

Thesis: 6 to 12 credits (OCE 6972).

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- For Master's Thesis Proposal Seminar requirements, see <u>MSO</u> regulations.
- For Master's Thesis Defense Requirements, see <u>MSO regulations</u> and the Graduate College for current <u>University thesis requirements</u>.

Proposal and Defense: OCE 6974 will be taken for one credit during the semester a student intends to propose their research plan. Upon successful completion of their proposal and approval from their committee, the student will earn a satisfactory grade. OCE 6975 will be taken for one credit during the semester a student intends to defend their research. Upon successful defense of the student's research via a public presentation and thesis document, the student will earn a satisfactory grade.

Non-Thesis Option

A student curriculum consists of a minimum of 37 credits taken in the following three categories:

Required Courses: Four Five courses (1110 credits) are required for all students in the master's degree program in Marine Science and Oceanography.

Required Courses		
Physical and Geological Oceanography	OCE 6097	3
Biological Oceanography	OCB 6066	3
Chemical Oceanography	OCC 6050	3
Marine Science and Oceanography	OCE 6965	1
Comprehensive Exam		
Marine Science and Oceanography	OCE 6922 OR	1
Colloquium_OR Marine Science Seminar	BSC 6938	1
Total Research Core		10 11

Electives: A minimum of 24 26 credits from the approved course list. Up to 6 credits designated as "Special Topics" courses may be taken with the approval of the student's advisor.

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No more than 6 credits of electives taken outside the approved course list will be counted toward the degree. No courses under the 5000 level may be taken. No more than 3 credits of Marine Science and Oceanography Directed Independent Research (OCE 6908) may be counted toward this degree.

Students taking the non-thesis option must take and pass a minimum of three written comprehensive exams given by a committee in designated areas within Marine Science and Oceanography specialties during the semester they are signed up for one credit of OCE 6965 (Marine Science and Oceanography Comprehensive Exam). Questions require written essay responses. See the MSO regulations for complete requirements to complete the Master's comprehensive exams.

Integrative Biology PH.D. students choosing MSO for a Master's Along the Way degree will be verified for completion of degree requirements by the Biology Department during the Graduation Audit Check. Consult with the IB Ph.D. advisor early in matriculation to ensure the curriculum followed would satisfy the requirements for the MSO MS non-thesis option.

Approved Course List		
Coastal Plant Ecology	BOT 6606	2
Coastal Plant Ecology Lab	BOT 6606L	2
Advances in Finfish Aquaculture	BSC 6342	3
Scientific Communication	BSC 6846	3
Special Topics (such as Marine	BSC 6936	1-4
Conservation)		
Seminar	BSC 6938	1
Chemistry for Environmental Scientists	CHS 6611	3
Ocean Optics and Remote Sensing	EOC 6267	3
Restoration Implementation and	EVR 6358	3
Management		

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Biogeography	GEO 5305	3
Digital Image Analysis	GIS 5033C	3
Remote Sensing of the Environment	GIS 5038C	3
Principles of Geographic Information	GIS 5051C	3
Systems		
Applications in Geographic Information	GIS 5100C	3
Systems		
Programming in Geographic Information	GIS 5103C	3
Systems		
Advanced Remote Sensing	GIS 6039	3
Topics in Geoinformation Science	GIS 6120	3
Hyperspectral Remote Sensing	GIS 6127	3
Environmental Geochemistry	GLY 5243	3
Shore Erosion and Protection	GLY 5575C	3
Marine Geology	GLY 5736C	3
Comparative Carbonate Sedimentology	GLY 6352	3
Beach Morphodynamics of Southeast	GLY 6708C	3
Florida		
Coastal Environments	GLY 6737	3
Global Environmental Change	GLY 6746	3
Methods in Hydrogeology	GLY 6838	3
Coastal Hazards	GLY 6888	3
Special Topics in Applied Geology	GLY 6934	3
Coral Reef Ecosystems	OCB 6266	3
Coral Reef Ecosystems Lab	OCB 6266L	1
Data Processing and Modeling of Marine	OCB 6673	3
Systems		
Marine Fisheries Ecology and Management	OCB 6715C	4
Natural History of the Indian River Lagoon	OCB 6810	3
Image and Video Processing and Vision in	OCE 5266	3
Marine Environment		

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Marine Global Change	OCE 6019	3
Dynamics of Marine Biogeochemical	OCE 6096	3
Processes		
Underwater Optical Imaging for Marine	OCE 6267	3
Scientists		
Ocean Monitoring Systems	OCE 6268	3
Marine Optics	OCE 6269	3
Conservation Biology	PCB 6045	3
Advanced Ecology	PCB 6046	3
Marine Ecology	PCB 6317	3
Marine Ecology Lab and Field Studies	PCB 6317L	2
Ecological Theory	PCB 6406	3
Experimental Design and Biometry	PCB 6456	3
Advanced Multivariate Biometry	PCB 6457	3
Marine Molecular Biology	PCB 6465	3
Aquatic Animal Health	PCB 6772	3
Physiology of Marine Animals	PCB 6775	3
Sensory Biology and Behavior of Fishes	PCB 6871	3
Marine Invertebrate Zoology	ZOO 6256	3
Marine Invertebrate Zoology Lab	ZOO 6256L	2
The Biology of Sea Turtles	ZOO 6406	3
Biology of Sharks and Their Relatives	ZOO 6409	3
Natural History of Fishes	ZOO 6456	3
Natural History of Fishes Lab	ZOO 6456L	2
Seminar in Ichthyology	ZOO 6459	3