

The Marine Science Institute
SCHEDULE OF COURSE OFFERINGS
for MS/Ph.D. Marine Science Programs
(Marine Biology, Marine Physical Sciences and Marine Biotechnology)

Undergraduate Offering:

MS 101	Oceans	LTDavid, FPSiringan, DFOna, ATYñiguez, IDSorizar
MS 102	The Marine Sciences	PCCabaitan, CConaco, DFLOna
MS 1	Oceans and Us	RAAbesamis, CConaco, LTDavid, RRGotanco, MDMalay, DFLOna, LSReyes, IBRodriguez, MVBRodriguez, WJESantiañez, FPSiringan, ATYñiguez, ETYu, MPAtrigenio

Graduate Offering:
Courses offered during the 1st semester:

CORE COURSES		
MS 201	Ocean Physics and Chemistry	LTDavid / CRepollo
MS 210	Physical Oceanography	LTDavid / CRepollo
MS 220	Chemical Oceanography	IBRodriguez / IDSorizar
MS 240	Biological Oceanography	DFOna / CConaco / MYRoleda / ATYñiguez
MS 270	Biochemistry of Marine Organisms	LSReyes / IBRodriguez / ETYu
ELECTIVES		
MS 214	Waves and Tides (on demand)	LTDavid
MS 221	Marine Geochemistry	
MS 253	Marine Chemical Ecology	LSReyes / MVBRodriguez
MS 255	Coral Reef Ecosystems	PCCabaitan
MS 256	Marine Algae	WJESantiañez
MS 261	Physiology of Marine Algae	MYRoleda
MS 385	Marine Toxinology	LSReyes / DFLOna
MS 397	Special Topics: Behavioral Ecology	
MS 397	Special Topics: Genome Biology of Marine Organisms	CConaco
MS 397	Special Topics: Gene Expression Control	CConaco
MS 397	Special Topics: Ecological Modeling	ATYñiguez
MS 397	Special Topics: Ecological Restoration	MVBRodriguez
MS 397	Special Topics: Molecular Ecology and Evolution	RRGotanco
MS 397	Special Topics: Ecological Assessment with Algae	MYRoleda
MS 397	Special Topics: Submarine Groundwater Discharge	FPSiringan
MS 397	Special Topics: Molecular Biology and Bioinformatics of the Biosynthesis of Natural Products	AOLluisma
MS 397	Special Topics: Environmental Metallomics and Biotechnology	IBRodriguez
MS 397	Special Topics: Advanced Marine Invertebrate Zoology	MDMalay
MS 398	Advanced Methods in Marine Science: Quantitative Methods in Microbial Ecology	DFLOna
MS 398	Advanced Methods in Marine Science: Biostatistics	
MS 398	Advanced Methods in Marine Science:	AOLluisma

	Practical Scientific Programming (every odd year)	
MS 398	Advanced Methods in Marine Science: Ocean Remote Sensing & Image Analysis	LTDavid
MS 398	Advanced Methods in Marine Science: Marine Natural Products & Biomedical Research	LSReyes
SEMINAR		
MS 396	Seminar 1: Current Topics in Marine Science (for all MS students)	All MSI Faculty
MS 396	Seminar (Marine Biology)	

Courses Offered during the 2nd semester:

CORE COURSES

MS 230	Geological Oceanography	FPSiringan
MS 240	Biological Oceanography	DFOna/CConaco/ MYRoleda/ATYñiguez
MS 272	Marine Biotechnology 1	AOLluisma

ELECTIVES

MS 213	Dynamics of Oceans	
MS 216	Numerical Ocean Modeling (on demand)	LTDavid
MS 217	Coastal and Estuarine Oceanography	LTDavid
MS 222	Chemistry of Marine Coastal Environments (every odd year)	IDSOrizar
MS 226	Marine Pollution Chemistry (every even year)	IBRodriguez
MS 226.1	Marine Pollution Chemistry laboratory (every even year)	IBRodriguez
MS 242	Marine Microbiology	CConaco
MS 246	Marine Phytoplankton	DFLOnda
MS 250	Marine Ecology	MYRoleda/RAAbesamis
MS 251	Population Biology of Marine Organisms	PCCabaitan
MS 252	Marine Biogeography	MVBRodriguez /RRGotanco / MDMalay
MS 254	Seagrasses and Mangroves	MYRoleda
MS 258	Marine Fishes	RAAbesamis
MS 260	Marine Biodiversity	ATYñiguez /RRGotanco/ MVBRodriguez/RAAbesamis/M DMalay
MS 273	Marine Biotechnology II (every odd year)	ETYu
MS 278	Marine Natural Products	LSReyes
MS 280	Management of Marine Resources (every even year)	MPAtrigenio
MS 283	Marine Agronomy	WJESantiañez
MS 361	Reproductive Biology	
MS 366	Population Genetics of Marine Organisms	RRGotanco
MS 397	Special Topics: Seaweed Utilization	IBRodriguez
MS 397	Special Topics: Physical-Biological Interactions in the Oceans	ATYñiguez
MS 397	Special Topics: Algal Life Histories and Reproduction	WJESantiañez
MS 397	Special Topics: Algal Photobiology and Photochemistry	MYRoleda
MS 397	Special Topics: Application of Satellite Altimetry (as needed)	
MS 397	Special Topics: Mixing in Estuarine and Coastal Waters	LTDavid
MS 397	Special Topics: Marine Observation Systems -	
MS 397	Special Topics: Ocean Energy	LTDavid
MS 398	Advanced Methods in Marine Science: Applied Multivariate Data Analysis	
MS 398	Advanced Methods in Marine Science: Seaweed and Seagrass Research Methods	MYRoleda

MS 398	Advanced Methods in Marine Science: Techniques in Coral Reef Ecology	PCCabaitan
MS 398	Advanced Methods in Marine Science: Molecular Biology Methods for Marine Science	CConaco/RRGotanco
MS 398	Advanced Methods in Marine Science: Elucidation of Natural Products (on demand)	LSReyes
MS 398	Advanced Methods in Marine Science: Practical Mass Spectrometry	ETYu
MS 398	Advanced Methods in Marine Science: Data Analysis Methods in Oceanography	LTDavid / CRepollo
SEMINAR		
MS 396	Seminar (Marine Biotechnology)	
MS 396	Seminar (Physical Sciences)	

Courses Offered for Midyear:

MS 397 Special Topics: Microbial Oceanography

DFLOnda

Courses offered previously, no current schedule indicated

MS 397 Special Topics: Coastal Geomorphology **FPSiringan**

MS 397 Special Topics: The Sediment Record of Environmental Change **FPSiringan**

MS 398 Advanced Methods in Marine Science: Analysis of Molecular Sequences (every even year)

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