

# M.P.S. IN APPLIED REMOTE SENSING

## Applied Remote Sensing (ARS)

The MPS in "Applied Remote Sensing" (<http://mps.rsmas.miami.edu/degree-program/applied-remote-sensing>) offered by the University of Miami's Rosenstiel School of Marine and Atmospheric Science (RSMAS) and Center for Southeastern Tropical Advanced Remote Sensing (CSTARS) is tailored to the needs of students who seek to gain theoretical knowledge and practical, real-world experiences geared towards a successful career in the field of remote sensing in both public and private sectors. This program is also appropriate for those already in the workforce who require additional training or are looking to expand upon their knowledge and skills.

Course	Title	Credit Hours
<b>Year One</b>		
<b>Fall</b>		
OCE 642	Physics of Remote Sensing I - Passive Systems	3
OCE 684	Special Topics (Applied Remote Sensing)	3
RSM 612	Statistics for Environmental Management (Or Elective)	3
MGS 686	Special Topics (Natural Hazards: Solid Earth & Oceans Or Elective)	3
	Credit Hours	12
<b>Spring</b>		
OCE 643	Physics of Remote Sensing II - Active Systems	3
OCE 683	Special Topics (Applied Radar Remote Sensing)	3
OCE 624	Applied Data Analysis (Or Elective)	3
MES 660 & MES 661	Introduction to Marine Geographic Information Systems and Introduction to Marine Geographic Information Systems - Laboratory (Can be taken in Fall or Spring) Or Elective	3
	Credit Hours	12
<b>Summer</b>		
OCE 805	MPS Internship	6
	Credit Hours	6
	<b>Total Credit Hours</b>	<b>30</b>

## Elective Options

Students may take any elective on the RSMAS campus with the consent of their faculty advisor. Below are a few examples of courses past students in this program used as electives.

Code	Title	Credit Hours
ATM 731	Air-Sea Interaction	3
OCE 705	Chemical Oceanography	3
MES 720	Coastal Law and Policy	3

MES 602	Economics of Natural Resources	3
MES 620	Environmental Law	3
MES 610	Environmental Planning and the Environmental Impact Statement	3
ATM 651	Introduction to Atmospheric Science	3
MES 616	Ocean Policy and Development and Analysis	3
MES 630	Port Operations and Policy	3
OCE 603	Physical Oceanography	3
MBE 615	Tropical Marine Ecology	3
MES 677	Management And Conservation Of Marine Ecosystems	3
ATM 662	Advanced Weather Forecasting	3
OCE 651	Applied Ocean Acoustics and Marine Mammals (Applied Ocean Acoustics and Marine Mammals)	3
OCE 676	Wave Propagation in the Ocean Environment	3
OCE 790	Mechanics and Thermodynamics of the Air-Sea Interface	3
MES 633	Decision Analysis: Natural Hazards and Catastrophes	3
MGS 634	Hydrological Hazards	3
OCE 637	Natural Hazards: Atmosphere and Ocean	3