

**Important Dates:**

Classes Begin: August 17, 2020
 Labor Day (University Closed): September 7, 2020
 Fall Recess: October 16 – 18, 2020
 Last Day to Defend for Fall Graduation: November 6, 2020
 Last Day of Face-to-Face Classes: November 20, 2020
 Last Day of Virtual/Remote Classes: November 23, 2020
 Thanksgiving Recess: November 25 – 29, 2020
 Thanksgiving Holiday (University Closed): November 26 – 27, 2020
 Final Exams (Hosted Virtual/Remote): November 30 – December 4, 2020
 Deadline for Completion of Thesis/Dissertation: December 4, 2020

Fall 2020 Schedule**Atmospheric Sciences (ATM)**

COURSE	SEC	COURSE NAME	CR	DAY	TIME	ROOM	INSTRUCTOR	SEATS	NOTES
ATM 511/ 611 MPO OCE	38	Geophysical Fluid Dynamics I	3	M/W	4:30pm-5:45pm	MSC 329	Ozgekmen	8	
ATM 614	55	Introduction to Weather & Climate	3	T/R	1:30pm-2:45pm	MSC 329	Soden	8	
ATM 651 MPO	32	Introduction to Atmospheric Dynamics	3	M/W	10:30am-11:45am	SG 116	Mapes	8	
ATM 652 MPO	52	Introduction to Atmospheric Physics	3	T/R	10:30am-11:45am	MSC 329	Zuidema	8	
ATM 653 MPO	54	Climate Change	3	T/R	12:00pm-1:15pm	SLAB 120	Clement	12	
ATM 562/ 662 MPO	44	Advanced Weather Forecasting	3	M	12:00pm-2:30pm	MSC 343	Murphy Goes	12	
ATM 764 MPO OCE	58	Atmospheric & Oceanic Turbulence	3	T/R	4:30pm-5:45pm	MSC 329	Ozgekmen	8	

07/30/2020

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Course Descriptions
<http://bulletin.miami.edu/graduate-academic-programs/marine-atmospheric-science/>

COURSE	SEC	COURSE NAME	CR	DAY	TIME	ROOM	INSTRUCTOR	SEATS	NOTES
ATM 805	01	MPS Internship	1-6	ARR	ARR	ARR	D'Alessandro		
ATM 810	01	Master's Thesis	1-6	ARR	ARR	ARR	Gaston		
ATM 830	01	Doctoral Dissertation	1-12	ARR	ARR	ARR	Gaston		

Marine Biology and Ecology (MBE)

COURSE	SEC	COURSE NAME	CR	DAY	TIME	ROOM	INSTRUCTOR	SEATS	NOTES
MBE 604	54	Biology of Marine Mammals	3	T/R	12:00pm-1:15pm	MSC 123	Richardson	16	Prerequisite: 1 year of General Biology is strongly recommended
MBE 614 <i>Instructor Permission Required</i>	01	Tropical Marine Biology	3	Special Dates: December 4-14, 2020 Location: Broad Key, FL			D'Alessandro & Grubbs	12	
MBE 615	55	Tropical Marine Ecology	3	T/R	1:30pm-2:45pm	MSC 108 RSMAS Auditorium	Langdon, Lirman & Baker	65	
MBE 535/ 635	46	Practical Computing for Biologists	3	M	2:00pm-4:30pm	SLAB 114	Crawford & Oleksiak	8	
MBE 671 <i>Instructor Permission Required</i>	01	Special Topics Marine Mammal Research II: Field Techniques	1	Special Dates: TBA		Off-Campus Location: Dolphins Plus Key Largo, FL	Eskelinen	10	Prerequisite: MBE 670 (Summer 2020) Special Fees: \$430
MBE 704	32	Biological Oceanography	3	M/W	10:30am-11:45am	MSC 329	Brand	8	
MBE 710 <i>Instructor Permission Required</i>	52	Advanced Marine Mammal Biology	3	T/R	10:30am-11:45am	SLAB 120	Richardson	10	Prerequisites: 1 year of General Biology/Labs and General Chemistry, 1 semester of Calculus, and at least 9 credits in the Natural Sciences
MBE 702	01	MBE Graduate Student Seminar	1	F	12:00pm-1:00pm	Online	Fieber		
MBE 805	01	MPS Internship	1-6	ARR	ARR	ARR	D'Alessandro		
MBE 810	01	Master's Thesis	1-6	ARR	ARR	ARR	Babcock		
MBE 830	01	Doctoral Dissertation	1-12	ARR	ARR	ARR	Babcock		

Marine Ecosystems and Society (MES)

COURSE	SEC	COURSE NAME	CR	DAY	TIME	ROOM	INSTRUCTOR	SEATS	NOTES
MES 502/ 602	55	Economics of Natural Resources	3	T/R	1:30pm-2:45pm	SG 116	Letson	8	
MES 603 ECS 601	4G	Interdisciplinary Environmental Research: Introduction to the Why & the How	3	M	2:15pm-4:45pm	Online	Mach	10	
MES 512/ 612	32	Aquaculture I	3	M/W	10:30am-11:45am	MSC 123	Benetti	18	
MES 516/ 616	35	Ocean Policy Development & Analysis	3	M/W	1:30pm-2:45pm	MSC 108 RSMAS Auditorium	Shivlani	40	
MES 617	35	Aquaculture IV: Aquaculture Business, Regulatory, and Environmental Considerations	3	M/W	1:30pm-2:45pm	MSC 123	Stieglitz	16	
MES 520/ 620	58	Environmental Law & Policy	3	T/R	4:30pm-5:45pm	MSC 108 RSMAS Auditorium	K. Cox	40	
MES 622	32	Principles and Practices of Marine Social Science Research	3	M/W	10:30am-11:45am	SLAB 120	Araujo & Shivlani	10	
MES 624	34	Statistics & Data Analysis for Environmental Science & Policy	3	M/W	12:00pm-1:15pm LECTURE	MSC 123	Molina	16	Students must enroll in both sections
	4E			W	3:00pm-4:00pm DISCUSSION	MSC 123			
MES 625	51	Fisheries Socioeconomics & Management	3	T/R	9:00am-10:15am	SLAB 103	Agar	22	

COURSE	SEC	COURSE NAME	CR	DAY	TIME	ROOM	INSTRUCTOR	SEATS	NOTES
MES 626	45	Submerged Cultural Resource Management	3	W	1:30pm-4:00pm	SG 116	Hanselmann	8	
MES 532/ 632	45	Theory & Method in Underwater & Maritime Archaeology	3	M	1:30pm-4:00pm	SG 116	Hanselmann	8	
MES 533/ 633	57	Decision Analysis: Natural Hazards & Catastrophes	3	T/R	3:00pm-4:15pm	MSC 123	Letson	16	
MES 660	31	Introduction to Marine Geographic Information Systems (GIS)	3	M	9:00am-10:15am	MSC 108 RSMAS Auditorium	Estevanez	45	Corequisite: MES 661 (01, 02, or 03)
MES 661	01	Introduction to Marine GIS – Lab	0	W	9:00am-10:15am	MSC 108 RSMAS Auditorium	Estevanez	15	Corequisite: MES 660 (31)
MES 661	02	Introduction to Marine GIS - Lab	0	W	9:00am-10:15am	MSC 108 RSMAS Auditorium	Estevanez	15	Corequisite: MES 660 (31)
MES 661	03	Introduction to Marine GIS - Lab	0	W	9:00am-10:15am	MSC 108 RSMAS Auditorium	Estevanez	15	Corequisite: MES 660 (31)
MES 660	34	Introduction to Marine Geographic Information Systems (GIS)	3	M	12:00pm-1:15pm	MSC 108 RSMAS Auditorium	Estevanez	45	Corequisite: MES 661 (04, 05, or 06)
MES 661	04	Introduction to Marine GIS - Lab	0	W	12:00pm-1:15pm	MSC 108 RSMAS Auditorium	Estevanez	15	Corequisite: MES 660 (34)
MES 661	05	Introduction to Marine GIS - Lab	0	W	12:00pm-1:15pm	MSC 108 RSMAS Auditorium	Estevanez	15	Corequisite: MES 660 (34)
MES 661	06	Introduction to Marine GIS - Lab	0	W	12:00pm-1:15pm	MSC 108 RSMAS Auditorium	Estevanez	15	Corequisite: MES 660 (34)

COURSE	SEC	COURSE NAME	CR	DAY	TIME	ROOM	INSTRUCTOR	SEATS	NOTES
MES 664 ECS 376	57	Citizen & Participatory Science	3	T/R	3:00pm-4:15pm	SLAB 103	Haywood	22	
MES 670	43	Conservation & Management of Marine Mammals	3	F	11:30am-2:30pm	MSC 108 RSMAS Auditorium	H. Herring & S. Loos	40	
MES 671	52	Marine Conservation Biology	3	T/R	10:30am-11:45am	MSC 108 RSMAS Auditorium	C. Macdonald	45	
MES 671	54	Marine Conservation Biology	3	T/R	12:00pm-1:15pm	MSC 108 RSMAS Auditorium	C. Macdonald	45	
MES 674	61	From Gold to Glory: History & Ethics of Exploration	3	T	9:00am-11:30am	SLAB 114	Broad	12	
MES 691 Instructor Permission Required	01	Maritime Archaeology Field Study	3	Special Dates: August 09-23, 2020			Hanselmann	8	
MES 713 MES 581	32	Marine Population Dynamics	3	M/W	10:30am-11:45am	SLAB 103	Die	18	
MES 715	51	Advanced Biometrics	3	T/R	9:00am-10:15am	SLAB 120	Ault	8	
MES 720	58	Coastal Law & Policy	3	T/R	4:30pm-5:45pm	MSC 123	Suman	18	
MES 805	01	MPS Internship	1-6	ARR	ARR	ARR	D'Alessandro		
MES 810	01	Master's Thesis	1-6	ARR	ARR	ARR	Mach		
MES 830	01	Doctoral Dissertation	1-12	ARR	ARR	ARR	Mach		

Marine Geosciences (MGS)

COURSE	SEC	COURSE NAME	CR	DAY	TIME	ROOM	INSTRUCTOR	SEATS	NOTES
MGS 535/ 635	31	Geological Hazards	3	M/W	9:00am-10:15am	SLAB 114	Amelung	8	
MGS 681	40	Petroleum Geology	4	F	8:30am-12:00pm	Online	Dolson	5	
MGS 591/ 691	45	Research Methods in Electron Microscopy	2	F	1:30pm-3:00pm	Knight Physics 142A Coral Gables Campus	Blackwelder	8	
MGS 810	01	Master's Thesis	1-6	ARR	ARR	ARR	Pourmand		
MGS 830	01	Doctoral Dissertation	1-12	ARR	ARR	ARR	Pourmand		

Meteorology and Physical Oceanography (MPO)

COURSE	SEC	COURSE NAME	CR	DAY	TIME	ROOM	INSTRUCTOR	SEATS	NOTES
MPO 603 OCE	52	Physical Oceanography	3	T/R	10:30am-11:45am	MSC 343	Beal	14	
MPO 611 ATM OCE	38	Geophysical Fluid Dynamics I	3	M/W	4:30pm-5:45pm	MSC 329	Ozgekmen	8	
MPO 642 OCE	37	Physics of Remote Sensing I: Passive Systems	3	M/W	3:00pm-4:15pm	SLAB 120	Minnett	10	
MPO 651 ATM	32	Introduction to Atmospheric Dynamics	3	M/W	10:30am-11:45am	SG 116	Mapes	8	
MPO 652 ATM	52	Introduction to Atmospheric Physics	3	T/R	10:30am-11:45am	MSC 329	Zuidema	8	
MPO 653 ATM	54	Climate Change	3	T/R	12:00pm-1:15pm	SLAB 120	Clement	12	
MPO 662 ATM	44	Advanced Weather Forecasting	3	M	12:00pm-2:30pm	MSC 343	Murphy Goes	12	
MPO 686 OCE	31	Applied Remote Sensing	3	M/W	9:00am-10:15am	SLAB 120	Minnett	10	
MPO 724 OCE	54	Statistical Modeling of Geophysical Fields	3	T/R	12:00pm-1:15pm	MSC 343	Mariano	10	
MPO 762 OCE	34	Computer Models of Fluid Dynamics	3	M/W	12:00pm-1:15pm	MSC 329	Iskandarani	8	
MPO 764 ATM OCE	58	Atmospheric & Oceanic Turbulence	3	T/R	4:30pm-5:45pm	MSC 329	Ozgekmen	8	
MPO 776 OCE	55	Mesoscale Oceanography	3	T/R	1:30pm-2:45pm	SLAB 120	Kamenkovich & Mariano	10	

COURSE	SEC	COURSE NAME	CR	DAY	TIME	ROOM	INSTRUCTOR	SEATS	NOTES
MPO 810	01	Master's Thesis	1-6	ARR	ARR	ARR	Mapes		
MPO 830	01	Doctoral Dissertation	1-12	ARR	ARR	ARR	Mapes		

Ocean Sciences (OCE)

COURSE	SEC	COURSE NAME	CR	DAY	TIME	ROOM	INSTRUCTOR	SEATS	NOTES
OCE 503/ 603 MPO	52	Physical Oceanography	3	T/R	10:30am-11:45am	MSC 343	Beal	14	
OCE 508/ 608	45	Introduction to Ocean Systems Engineering	3	F	1:30pm-4:00pm	MSC 329	Graber, Haus, Iskandarani, Negahdaripour, Ozgokmen, Romeiser, & Zha	8	
OCE 511/ 611 ATM MPO	38	Geophysical Fluid Dynamics I	3	M/W	4:30pm-5:45pm	MSC 329	Ozgokmen	8	
OCE 542/ 642 MPO	37	Physics of Remote Sensing I: Passive Systems	3	M/W	3:00pm-4:15pm	SLAB 120	Minnett	10	
OCE 575/ 675	31	Fluid Mechanics	3	M/W/F	8:00am-8:50am	MSC 125	Brown	6	
OCE 586/ 686 MPO	31	Applied Remote Sensing	3	M/W	9:00am-10:15am	SLAB 120	Minnett	10	
OCE 701	51	Mathematical Methods in Marine Physics	3	M/W/F	9:00am-9:50am	MSC 125	Brown	6	
OCE 705	34	Chemical Oceanography	3	M/W	12:00pm-1:15pm	SLAB 120	Wu	8	
OCE 724 MPO	54	Statistical Modeling of Geophysical Fields	3	T/R	12:00pm-1:15pm	MSC 343	Mariano	10	
OCE 735	38	Life in Moving Fluids	3	M/W	4:30pm-5:45pm	SLAB 120	Paris-Limouzy	10	
OCE 762 MPO	34	Computer Models of Fluid Dynamics	3	M/W	12:00pm-1:15pm	MSC 329	Iskandarani	8	

COURSE	SEC	COURSE NAME	CR	DAY	TIME	ROOM	INSTRUCTOR	SEATS	NOTES
OCE 764 ATM MPO	58	Atmospheric & Oceanic Turbulence	3	T/R	4:30pm-5:45pm	MSC 329	Ozgokmen	8	
OCE 768	38	Marine Trace Element Geochemistry	3	M/W	4:30pm-5:45pm	MSC 343	Wu	8	
OCE 776 MPO	55	Mesoscale Oceanography	3	T/R	1:30pm-2:45pm	SLAB 120	Kamenkovich & Mariano	10	
OCE 770	01	Seminar in Ocean Sciences	1	F	11:00am-12:00pm	MSC 108 RSMAS Auditorium	Romeiser		
OCE 780	01	Capstone Independent Study of Coastal Engineering	3	ARR	ARR	MTLSS Bldg.	Haus		
OCE 805	01	MPS Internship	1-6	ARR	ARR	ARR	D'Alessandro		
OCE 810	01	Master's Thesis	1-6	ARR	ARR	ARR	Romeiser		
OCE 830	01	Doctoral Dissertation	1-12	ARR	ARR	ARR	Romeiser		

RSMAS General Courses (RSM)

COURSE	SEC	COURSE NAME	CR	DAY	TIME	ROOM	INSTRUCTOR	SEATS	NOTES
RSM 612	51	Statistics for Marine Scientists	3	T/R	9:00am-10:15am	MSC 108 RSMAS Auditorium	Babcock	40	
RSM 612	52	Statistics for Marine Scientists	3	T/R	10:30am-11:45am	MSC 123	Babcock	16	
RSM 612	57	Statistics for Marine Scientists	3	T/R	3:00pm-4:15pm	MSC 108 RSMAS Auditorium	Babcock	40	
RSM 622	01	Data Management for Scientists	2	ARR	ARR	ARR	Babcock	5	
RSM 647 TAL 675	48	Methods for Marine & Atmospheric Education	3	M	4:30pm-7:00pm	MSC 125	Coco	8	
RSM 780 <i>Enrollment Permission Required</i>	01	Directed Readings Special Topics in Coral Reefs	1	W	4:00pm-4:50pm	MSC 125	Baker	6	
RSM 780	02	Directed Readings Manuscript Writing Skills	1	ARR	ARR	ARR	Paris-Limouzy	5	
RSM 700	01	Research Ethics	0	ARR	ARR	ARR	Soden		
RSM 771	01	Educational Training 1	0	ARR	ARR	ARR	Soden		
RSM 772	01	Educational Training 2	0	ARR	ARR	ARR	Soden		
RSM 773	01	Educational Training 3	0	ARR	ARR	ARR	Soden		

Enrollment Requirements for Research Diving

Must be completed by August 14, 2020

1. Have a valid recreational diver certification with a major accredited agency;
2. Minimum of 10 logged open water dives, with at least 2 dives being within 6 months of starting the course (*this information will be confirmed by UM Diving Safety Office (DSO)*);
3. Pass a swim test and complete a diving physical exam prior to the start of the course
 - UM Diving Physical Exam form must be completed and signed by an MD or DO: <https://www.rsmas.miami.edu/about-us/administration/marineoperations/dive-office/index.html>
 - Students may arrange their swim test with the DSO anytime during the summer. Scheduled swim tests are also available during the week before classes start (times vary).

COURSE	SEC	COURSE NAME	CR	DAY	TIME	ROOM	INSTRUCTOR	SEATS	NOTES
RSM 500/ 600 <i>Enrollment Permission Required</i>	01	Research Diving Techniques	3	TBA	TBA	Pool RSMAS Campus	Riera-Gomez & Christian	12	<u>Mandatory Trip</u> Date: TBA Location: TBA
				TBA	TBA LECTURE	TBA			
				TBA	TBA	OW Dives			
RSM 500/ 600 <i>Enrollment Permission Required</i>	02	Research Diving Techniques	3	TBA	TBA	Pool RSMAS Campus	Riera-Gomez & Christian	12	<u>Mandatory Trip</u> Date: TBA Location: TBA
				TBA	TBA LECTURE	TBA			
				TBA	TBA	OW Dives			

Enrollment Requirements for MOCC

Must possess a valid U.S. Driver's License with less than 6 points.

COURSE	SEC	COURSE NAME	CR	DAY	TIME	ROOM	INSTRUCTOR	SEATS	NOTES
RSM 667 Enrollment Permission Required	01	Motorboat Operator Certification Course (MOCC)	2	T	8:00am-11:15am	ARR	Teare	3	
RSM 667 Enrollment Permission Required	02	MOCC	2	W	8:00am-11:15am	ARR	Teare	3	
RSM 667 Enrollment Permission Required	03	MOCC	2	R	8:00am-11:15am	ARR	Teare	3	
RSM 667 Enrollment Permission Required	04	MOCC	2	F	8:00am-11:15am	ARR	Teare	3	
RSM 667 Enrollment Permission Required	05	MOCC	2	T	1:15pm-4:30pm	ARR	Peebles	3	
RSM 667 Enrollment Permission Required	06	MOCC	2	W	1:15pm-4:30pm	ARR	Peebles	3	
RSM 667 Enrollment Permission Required	07	MOCC	2	R	1:15pm-4:30pm	ARR	Peebles	3	
RSM 667 Enrollment Permission Required	08	MOCC	2	F	1:15pm-4:30pm	ARR	Peebles	3	

