

**Important Dates:**

Classes Begin: August 23, 2021  
 Labor Day (University Closed): September 6, 2021  
 Fall Recess: October 14 – 17, 2021  
 Last Day to Defend for Fall Graduation: November 5, 2021  
 Thanksgiving Recess: November 20 – 28, 2021  
 Thanksgiving Holiday (University Closed): November 25 – 26, 2021  
 Classes End: December 8, 2021  
 Final Exams: December 10 – 16, 2021  
 Deadline for Completion of Thesis/Dissertation: December 15, 2021  
 Fall Semester Ends: December 16, 2021  
 Fall Commencement: December 17, 2021

**Fall 2021 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	SLAB 120	Ozgekmen	15	
ATM 614	55	Introduction to Weather & Climate	3	T/R	1:30pm-2:45pm	MSC 343	Soden	12	
ATM 651 MPO	32	Introduction to Atmospheric Dynamics	3	M/W	10:30am-11:45am	MSC 343	Mapes	12	
ATM 652 MPO	52	Introduction to Atmospheric Physics	3	T/R	10:30am-11:45am	MSC 329	Zuidema	12	
ATM 653 MPO	54	Climate Change	3	T/R	12:00pm-1:15pm	MSC 343	Clement	20	
ATM 562/ 662 MPO	44	Advanced Weather Forecasting	3	F	12:00pm-2:45pm	MSC 123	Murphy Goes	15	
ATM 731 MPO	37	Air-Sea Interaction	3	M/W	3:00pm-4:15pm	MSC 329	Shay	15	

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ATM 768 MPO	35	ENSO Dynamics, Prediction, and Predictability	3	M/W	1:30pm-2:45pm	MSC 329	Kirtman	10	
ATM 770 MPO	01	Seminar in ATM/MPO	1	W	3:00pm-4:00pm	SLAB 103	Romeiser		
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 504/ 604 <i>Instructor Permission Required</i>	54	Biology of Marine Mammals	3	T/R	12:00pm-1:15pm	SLAB 103	Richardson	21	<b>Prerequisite:</b> 1 year of General Biology is strongly recommended
MBE 607 <i>Enrollment Permission Required: Priority for MMS Track</i>	42	Marine Mammal Applied Behavior Analysis & Managed Care	3	M/W	10:00am-12:00pm	<b>*Off-Campus Location:</b> Key Largo, FL Dolphins Plus	Richardson & Cooper	16	<b>Special Fees:</b> \$1820  *Transportation is required to travel back and forth to Key Largo
					1:00pm-2:30pm				
MBE 614 <i>Instructor Permission Required</i>	01	Tropical Marine Biology	3	<b>Special Dates:</b> December 17-22, 2021 <b>Location:</b> Broad Key, FL			D'Alessandro & Grubbs	10	
MBE 615	55	Tropical Marine Ecology	3	T/R	1:30pm-2:45pm	MSC 108 RSMAS Auditorium	L. Baker	95	
MBE 535/ 635	65	Practical Computing for Biologists	3	T	2:00pm-4:30pm	SLAB 120	Crawford & Oleksiak	8	
MBE 643 <i>Instructor Permission Required</i>	01	Ecology, Conservation, and Ecotourism in the Galapagos	3	<b>Special Dates:</b> December 27, 2021-January 8, 2022			D'Alessandro	16	<b>Additional Fee:</b> \$2600 + Airfare
MBE 704	32	Biological Oceanography	3	M/W	10:30am-11:45am	SLAB 120	Brand	15	
MBE 710 <i>Instructor Permission Required: For MMS Track Only</i>	52	Advanced Marine Mammal Biology	3	T/R	10:30am-11:45am	SLAB 103	Cartolano	15	<b>Prerequisites:</b> 1 year of General Biology/Labs and General Chemistry, 1 semester of Calculus, and at least 9 credits in the Natural Sciences
MBE 770 <i>Instructor Permission Required</i>	01	Mentoring & Supervising Skills	1-3	ARR	ARR	ARR	Various	12	

MBE 702	01	MBE Graduate Student Seminar	1	F	12:00pm-1:00pm	SLAB 103	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 602	55	Economics of Natural Resources	3	T/R	1:30pm-2:45pm	MSC 123	Letson	18	
MES 603 ECS 601	FG	Interdisciplinary Environmental Research: Introduction to the Why & the How	3	M	2:15pm-4:45pm	Ungar 230C/D Coral Gables Campus	Mach	5	
MES 612	52	Aquaculture I	3	T/R	10:30am-11:45am	MSC 123	Benetti	21	
MES 616	35	Ocean Policy Development & Analysis	3	M/W	1:30pm-2:45pm	MSC 108 RSMAS Auditorium	Shivlani	48	
MES 517/ 617	35	Aquaculture IV: Aquaculture Business, Regulatory, and Environmental Considerations	3	M/W	1:30pm-2:45pm	MSC 123	Stieglitz	18	
MES 620	58	Environmental Law & Policy	3	T/R	4:30pm-5:45pm	SLAB 103	K. Cox	30	
MES 620	59	Environmental Law & Policy	3	T/R	6:00pm-7:15pm	SLAB 103	K. Cox	30	
MES 624	34	Statistics & Data Analysis for Environmental Science & Policy	3	M/W	12:00pm-1:15pm <b>LECTURE</b>	MSC 123	Molina	25	Students must enroll in both sections
	4E			W	3:00pm-4:00pm <b>DISCUSSION</b>	MSC 343			
MES 625	51	Fisheries Socioeconomics & Management	3	T/R	9:00am-10:15am	MSC 123	Agar	20	

MES 626 Instructor Permission Required	45	Submerged Cultural Resource Management	3	W	1:30pm-4:00pm	SG 116	Hanselmann	8	
MES 532/ 632 Instructor Permission Required	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	18	
MES 535/ 635	35	Oceans of Thought: Exploring Marine and Environmental Literature	3	M/W	1:30pm-2:45pm	SLAB 120	Haywood	12	
MES 660	41	Introduction to Marine Geographic Information Systems (GIS)	3	M	9:00am-10:15am	MSC 108 RSMAS Auditorium	Estevanez	40	Corequisite: MES 661 (01, 02, 03)
MES 661	01	Intro to Marine GIS Lab	0	M	12:00pm-1:15pm	SLAB 120	Estevanez	14	Corequisite: MES 660 (41)
	02			M	12:00pm-1:15pm	SLAB 103		13	
	03			M	12:00pm-1:15pm	SG 116		13	
MES 660	42	Introduction to Marine Geographic Information Systems (GIS)	3	W	9:00am-10:15am	MSC 108 RSMAS Auditorium	Estevanez	40	Corequisite: MES 661 (04, 05, 06)
MES 661	04	Intro to Marine GIS Lab	0	W	12:00pm-1:15pm	SLAB 120	Estevanez	14	Corequisite: MES 660 (42)
	05			W	12:00pm-1:15pm	SLAB 103		13	
	06			W	12:00pm-1:15pm	SG 116		13	
MES 664	57	Citizen & Participatory Science	3	T/R	3:00pm-4:15pm	MSC 108 RSMAS Auditorium	Haywood	48	
MES 670	37	Conservation & Management of Marine Mammals	3	M/W	3:00pm-4:15pm	MSC 108 RSMAS Auditorium	Cartolano	30	

MES 670	43	Conservation & Management of Marine Mammals	3	F	11:30am-2:15pm	SG 116	Herring, Loos & Cartolano	16	
<b>Enrollment Permission Required: For MMS Track Only</b>									
MES 671	32 LEC	Marine Conservation Biology	4	M/W	10:30am-11:45am LECTURE	MSC 108 RSMAS Auditorium	C. Macdonald	40	Students in lecture section 32 must enroll in lab section 01 or 02
	01 LAB			M	3:00pm-4:30pm LAB	MSC 123	Shivlani	20	
	02 LAB			M	4:45pm-6:15pm LAB	MSC 123	Shivlani	20	
MES 671	34 LEC	Marine Conservation Biology	4	M/W	12:00pm-1:15pm LECTURE	MSC 108 RSMAS Auditorium	C. Macdonald	40	Students in lecture section 34 must enroll in lab section 03 or 04
	03 LAB			W	3:00pm-4:30pm LAB	MSC 123	Shivlani	20	
	04 LAB			W	4:45pm-6:15pm LAB	MSC 123	Shivlani	20	
MES 671	31 LEC	Marine Conservation Biology	4	M/W	9:00am-10:15am LECTURE	SLAB 103	C. Macdonald	22	Students in lecture section 31 must enroll in lab section 05.
	05 LAB			M	1:30pm-3:00pm LAB	SLAB 103	C. Macdonald	22	
MES 673	45	Marine Conservation Outreach	3	F	1:00pm-3:30pm	SLAB 120	Fletcher	15	
MES 674	60	Theoretical & Practical Issues in Exploration Science	3	T	9:00am-11:45am	SG 116	Broad	18	
MES 692	01	Archaeological Study of Submerged Pre-Contact Sites	3	<b>Special Dates: TBA (December)</b>			Hanselmann	8	
<b>Instructor Permission Required</b>				<b>Location: TBA</b>					
MES 713	32	Marine Population Dynamics	3	M/W	10:30am-11:45am	SLAB 103	Die	25	

MES 714 Instructor Permission Required	54	Population Modeling, Risk Assessment & Management	3	T/R	12:00pm-1:15pm	SLAB 120	Ault	12	Prerequisites: MES 608 & MES 713, or Permission
MES 715 Instructor Permission Required	51	Machine Learning & Predictive Analytics in Marine Science	3	T/R	9:00am-10:15am	SLAB 120	Ault	12	Prerequisites: MES 608, MES 624, or Permission
MES 720	58	Coastal Law & Policy	3	T/R	4:30pm-5:45pm	SG 116	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 611	52	Earth Surface Processes	3	T/R	10:30am-11:45am	SLAB 120	Eberli	12	
MGS 514	D	Geophysics	3	M/W/F	11:45am-12:35pm	Ungar 210P Coral Gables Campus	Becker	10	
MGS 614	D	Geophysics	3	M/W/F	11:45am-12:35pm	N 351	Lin	6	
MGS 535/ 635	31	Geological Hazards	3	M/W	9:00am-10:15am	SLAB 120	Amelung	10	
MGS 682	55	Introduction to Seismology	3	T/R	1:30pm-2:45pm	N 351	Lin	10	
MGS 723	37	Geodynamics	3	M/W	3:00pm-4:15pm	N 351	Holt	10	
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	Mariano	15	
MPO 611 ATM OCE	38	Geophysical Fluid Dynamics I	3	M/W	4:30pm-5:45pm	SLAB 120	Ozgekmen	15	
MPO 651 ATM	32	Introduction to Atmospheric Dynamics	3	M/W	10:30am-11:45am	MSC 343	Mapes	12	
MPO 652 ATM	52	Introduction to Atmospheric Physics	3	T/R	10:30am-11:45am	MSC 329	Zuidema	12	
MPO 653 ATM	54	Climate Change	3	T/R	12:00pm-1:15pm	MSC 343	Clement	20	
MPO 662 ATM	44	Advanced Weather Forecasting	3	F	12:00pm-2:45pm	MSC 123	Murphy Goes	15	
MPO 731 ATM	37	Air-Sea Interaction	3	M/W	3:00pm-4:15pm	MSC 329	Shay	15	
MPO 762 OCE	34	Computer Models of Fluid Dynamics	3	M/W	12:00pm-1:15pm	MSC 329	Iskandarani	8	
MPO 768 ATM	35	ENSO Dynamics, Prediction, and Predictability	3	M/W	1:30pm-2:45pm	MSC 329	Kirtman	10	
MPO 770 ATM	01	Seminar in ATM/MPO	1	W	3:00pm-4:00pm	SLAB 103	Romeiser		
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 603 MPO	52	Physical Oceanography	3	T/R	10:30am-11:45am	MSC 343	Mariano	15	
OCE 508/ 608	45	Introduction to Ocean Systems Engineering	3	F	1:30pm-4:00pm	MSC 329	Various	10	
OCE 511/ 611 ATM MPO	38	Geophysical Fluid Dynamics I	3	M/W	4:30pm-5:45pm	SLAB 120	Ozgekmen	15	
OCE 512/ 612	57	Marine Organic Geochemistry	3	T/R	3:00pm-4:15pm	MSC 329	Close	8	
OCE 575/ 675	A	Fluid Mechanics	3	M/W/F	8:00am-8:50am	MSC 329	Brown	10	
OCE 701	B	Mathematical Methods in Marine Physics	3	M/W/F	9:00am-9:50am	MSC 329	Brown	10	
OCE 705	34	Chemical Oceanography	3	M/W	12:00pm-1:15pm	MSC 343	Wu	8	
OCE 762 MPO	34	Computer Models of Fluid Dynamics	3	M/W	12:00pm-1:15pm	MSC 329	Iskandarani	8	
OCE 770	01	Seminar in OCE	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)

### Enrollment Requirements for Research Diving

Must have a valid recreational diver certification with a major accredited agency, pass a swim test, and complete a diving physical exam with a certified medical professional by the specified deadline.

COURSE	SEC	COURSE NAME	CR	DAY	TIME	ROOM	INSTRUCTOR	SEATS	NOTES
RSM 500/ 600 <i>Enrollment Permission Required</i>	01	Research Diving Techniques	3	T	8:00am-12:00pm	Pool RSMAS Campus	Nunn, Hanselmann & Keller	12	<b><u>Mandatory Trip</u></b> <b>Date:</b> October 21-24, 2021 <b>Location:</b> Little Salt Spring, FL
				TH	4:30pm-6:00pm <i>LECTURE</i>	MSC 108 RSMAS Auditorium			
				F <i>Dates Vary</i> <i>09/24/2021</i> <i>10/08/2021</i> <i>11/30/2021</i>	7:00am-1:00pm	Open Water Training/Dives			
RSM 500/ 600 <i>Enrollment Permission Required</i>	02	Research Diving Techniques	3	T	1:00pm-5:00pm	Pool RSMAS Campus	Nunn, Hanselmann & Keller	12	<b><u>Mandatory Trip</u></b> <b>Date:</b> October 28-31, 2021 <b>Location:</b> Little Salt Spring, FL
				TH	4:30pm-6:00pm <i>LECTURE</i>	MSC 108 RSMAS Auditorium			
				F <i>Dates Vary</i> <i>09/24/2021</i> <i>10/08/2021</i> <i>11/30/2021</i>	1:00pm-5:00pm	Open Water Training/Dives			
RSM 600 <i>Enrollment Permission Required</i>	03	Research Diving Techniques	3	W	8:00am-12:00pm	Pool RSMAS Campus	Nunn, Hanselmann & Keller	12	<b><u>Mandatory Trip</u></b> <b>Date:</b> November 4-7, 2021 <b>Location:</b> Little Salt Spring, FL
				TH	4:30pm-6:00pm <i>LECTURE</i>	MSC 108 RSMAS Auditorium			
				F <i>Dates Vary</i> <i>10/01/2021</i> <i>10/15/2021</i> <i>12/01/2021</i>	7:00am-1:00pm	Open Water Training/Dives			
RSM 600 <i>Enrollment Permission Required</i>	04	Research Diving Techniques	3	W	1:00pm-5:00pm	Pool RSMAS Campus	Nunn, Hanselmann & Keller	12	<b><u>Mandatory Trip</u></b> <b>Date:</b> November 11-14, 2021 <b>Location:</b> Little Salt Spring, FL
				TH	4:30pm-6:00pm <i>LECTURE</i>	MSC 108 RSMAS Auditorium			
				F <i>Dates Vary</i> <i>10/01/2021</i> <i>10/15/2021</i> <i>12/01/2021</i>	1:00pm-5:00pm	Open Water Training/Dives			

### Enrollment Requirements for MOCC

1. Must possess a valid US or international driver's license with a clean driving record (*no at-fault accidents within the last three years and no more than 3 points on Motor Vehicle Record*).
2. Must complete a boating physical exam. UM Boating Medical Exam forms must be completed and signed by a physician by **September 7, 2021**.

COURSE	SEC	COURSE NAME	CR	DAY	TIME	ROOM	INSTRUCTOR	SEATS	NOTES
RSM 667 <small>Enrollment Permission Required</small>	01	Motorboat Operator Certification Course (MOCC)	2	T	8:00am-11:15am	RSMAS Pier	Teare & Peebles	3	
RSM 667 <small>Enrollment Permission Required</small>	02	MOCC	2	W	8:00am-11:15am	RSMAS Pier	Teare & Peebles	3	
RSM 667 <small>Enrollment Permission Required</small>	03	MOCC	2	R	8:00am-11:15am	RSMAS Pier	Teare & Peebles	3	
RSM 667 <small>Enrollment Permission Required</small>	04	MOCC	2	F	8:00am-11:15am	RSMAS Pier	Teare & Peebles	3	
RSM 667 <small>Enrollment Permission Required</small>	05	MOCC	2	T	12:00pm-3:15pm	RSMAS Pier	Teare & Peebles	3	
RSM 667 <small>Enrollment Permission Required</small>	06	MOCC	2	W	12:00pm-3:15pm	RSMAS Pier	Teare & Peebles	3	
RSM 667 <small>Enrollment Permission Required</small>	07	MOCC	2	R	12:00pm-3:15pm	RSMAS Pier	Teare & Peebles	3	
RSM 667 <small>Enrollment Permission Required</small>	08	MOCC	2	F	12:00pm-3:15pm	RSMAS Pier	Teare & Peebles	3	

COURSE	SEC	COURSE NAME	CR	DAY	TIME	ROOM	INSTRUCTOR	SEATS	NOTES
RSM 611	37	Principles of Mass Spectrometry & Applications to Marine, Atmospheric, and Environmental Science	3	M/W	3:00pm-4:15pm	SLAB 120	Gaston	10	
RSM 612	51	Statistics for Marine Scientists	3	T/R	9:00am-10:15am	MSC 108 RSMAS Auditorium	Babcock	60	
RSM 612	52	Statistics for Marine Scientists	3	T/R	10:30am-11:45am	MSC 108 RSMAS Auditorium	Babcock	60	
RSM 647 TAL 675	48	Methods for Marine & Atmospheric Education	3	M	4:30pm-7:00pm	Online	Coco	18	
RSM 700	Y	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		

