

Course	Course Title	Credit Hours	Current Course Instructor(s)	Term	Year	SP25	SU25	FA25	SP26	SU26	FA26	SP27	pre-requisites	co-requisites
MSCI 201	Marine Science Mash-Up	1	Hein	FA	all			X			X			
MSCI 330	Intro to Marine Sci	3	Brush	SP	all	X			X			X		
MSCI 331	Field Studies in Coastal Mar Env	3	Krueger-Hadfield, Snyder, Brush	SU	all		X			X			MSCI 330	
MSCI 332	Coastal Habitats in North Wales	3	Luckenbach, Hein	SU	even					X			MSCI 330	
MSCI 340	Marine Biology	3	Shields	SP	all	X			X			X	BIOL 204	
MSCI 398	Marine Science Seminar - Various Titles	1	Various Teaching Fellows	FA SP	all	X		X	X		X	X		
MSCI 401A	Motion of the Ocean: Fundamentals Phys Oc	3	Gong	SP	all	X			X			X		
MSCI 401B	Fundamentals Chem Oce	3	Colombo	FA	all	X					X			
MSCI 401C	Fundamentals Marine Geology	2	Kuehl	FA	odd			X						
MSCI 401D	Fundamentals Biol Oceanog	2	Steinberg, Millette	FA	all			X			X			
MSCI 401E	Fundamentals Aquatic Health	2	Wargo, Seeley	SP	all	X			X			X		
MSCI 401F	Fundamentals Mar Fisheries Science	3	Hilton	SP	odd	X						X		
MSCI 401R	Fundamentals Mar Sci - Recitation	1	Various	FA SP	all	X		X	X		X	X		MSCI 401C, 401D, 401E
MSCI 404	Microb Proc Coast Envir	2	Song	FA	all			X			X			
MSCI 421	Marine Geology	3	Hein	FA	even						X			
MSCI 490	Research in Marine Science	1-3	Various	AR	all									
MSCI 497	Problems in Marine Science	1-4	Various	AR	all									
MSCI 498	Special Topics in Marine Science	1-3	Various	AR	all									
MSCI 501A	Fundamentals Phys Oceanog	2	Mazzini	SP	all	X			X			X		
MSCI 501B	Fundamentals Chem Oce	2	Hardison	FA	all			X			X			
MSCI 501C	Fundamentals Marine Geology	2	Kuehl	FA	odd			X						
MSCI 501D	Fundamentals Biol Oceanog	2	Steinberg, Millette	FA	all			X			X			
MSCI 501E	Fundamentals Aquatic Health	2	Wargo, Seeley	SP	all	X			X			X		
MSCI 501F	Fundamentals Mar Fisheries Sci	2	Hilton, Scheld	SP	all	X			X			X		
MSCI 503	Interdis Res Estua/Coastal Sys	2	Brush	SP	all	X			X			X		
MSCI 504	Fundamentals Stats Methods & Data Analysis	3	Patrick	FA	all			X			X			
MSCI 506	Scientific Communication Skill	2	Steinberg, Patrick	SP	even				X					
MSCI 507	Responsible Conduct of Resrch	1	Hilton	FA	all			X			X			
MSCI 508	College Science Teaching	1	H. Macdonald	FA	all			X			X			
MSCI 509	Communicating Science to Diverse Audiences	2	Rivest	SP	odd	X						X		
MSCI 515	Marine Science Seminar	0-1	M. Friedrichs, C. Friedrichs, Rudders	FA SP	all	X		X	X		X	X		
MSCI 521	Advanced Marine Geology	3	Hein	FA	even						X		UG intro geol	
MSCI 523	Human Dimensions of Marine Science	3	Michaelis	FA	even						X			
MSCI 529	Fish Physiology	3	Dichiera	SP	odd	X						X		
MSCI 531	Water System Processes	3	Zhang	FA	odd			X						
MSCI 532	Intro to Hydrodyamic Model Programming	1	Zhang	FA	even						X			
MSCI 534	Disease in Marine Systems	3	Carnegie	FA	all			X			X			
MSCI 548	Intro to Coastal Wetlands	3	Kirwan	SP	AR									
MSCI 548	Scientific Illustration	1	Hilton	SP	AR									
MSCI 550	Rivers: Processes & Problems	3	Hein, Fabrizio	SP	3 yr				X					

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MSCI 551	Directed Readings in Shellfish Aquaculture	1	Walton, Carnegie	FA	odd			X						
MSCI 552A	Aquaculture in Practice: Ches Bay	2	Walton, Michaelis	SU	even					X				
MSCI 552B	Aquaculture in Practice: New Perspectives	2	Walton, Michaelis	SU	odd		X							
MSCI 553	Bound Layer/Sediment Transport	3	Harris	FA	odd			X						
MSCI 554	Principles Numerical Computing	3	Harris, Wang	FA	all			X			X			
MSCI 555	Marine Resource Economics	3	Scheld	FA	odd			X						
MSCI 556	Statistics & Data Science	3	Chiu	SP	all	X			X			X	UG intro stat	
MSCI 559	Parasitology	3	Shields	FA	odd			X						
MSCI 560A	Aquaculture: Biology & Production	1	Walton, Small	FA	even						X			
MSCI 560B	Aquaculture: Environmental Interactions	1	Kellogg	FA	even						X			
MSCI 560C	Aquaculture: Economics & Policy	1	Scheld	FA	even						X			
MSCI 561	Intro to R and using generative AI to code	3	Weng	FA	all			X			X			
MSCI 562	Environmental Pollution	2-3	Hale	FA	all			X			X			
MSCI 567	HABs & Toxins	2-3	Smith	SP	even				X					
MSCI 568	Crustacean Health Issues	1	Shields	AR	all	X		X	X					
MSCI 571	Marine Ecology	3	Johnson	SP	all	X			X			X		
MSCI 574	Phytoplankton Ecology	2	Millette	SP	odd	X						X		
MSCI 575	Aquatic Microbial Ecology	3	Song	SP	odd	X						X		
MSCI 583	Bioinformatics	3	McDowell, Reece	SP	odd	X						X		
MSCI 597	Internship in Marine Science	4	Mitchell	ALL	all	X	X	X	X	X	X	X		
MSCI 598	Capstone Research in Marine Science	2-6	Mitchell	ALL	all	X	X	X	X	X	X	X		
MSCI 602	SCHISM Modeling	3	Zhang	SP	even	X			X				MSCI 531 or 554	
MSCI 611	Estuarine Hydrodynamics I	3	Wang, Zhang	FA	all			X			X			
MSCI 615	Coastal/Estuarine Model	3	Wang	SP	even				X					
MSCI 617	Estuarine Water Quality Models	3	Wang	SP	AR									
MSCI 622	Holocene Coastal Evolution	3	Hein	SP	3 yr								MSCI 501C or 521	MSCI 501C or 521
MSCI 626	Global Ocean Change Biology	2	Rivest	FA	even						X			
MSCI 631	Wetland Ecogeomorphology	3	Kirwan	SP	all	X			X			X		
MSCI 644	Aquatic Epidemiology	3	Wargo	FA	odd			X						
MSCI 649	Modeling Biol and Ecol Sys	3	Brush	FA	odd			X						
MSCI 650	Estuarine Ecology	3	Brush	FA	even						X			
MSCI 655	Marine Physiological Ecology	2	Rivest	SP	even				X					
MSCI 658	Larval Ecology	3	Mann	FA	even						X			
MSCI 663	Deep-Sea Biology	2	Vecchione	SP	odd	X						X		
MSCI 666	Ichthyology	4	Hilton	SP	even				X					
MSCI 667	Got Data, Now What?	2-3	Lipcius	SP	all	X			X			X	MSCI 504	
MSCI 668	Malacology	3	Mann	FA	odd			X						
MSCI 669	Linear Models in Ecology	3	Fabrizio	FA	all			X			X		MSCI 556	
MSCI 671	Fisheries Population Dynamics	3	Latour	FA	all			X			X			
MSCI 672	Ecology of Fishes	3	Weng	FA	AR									

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MSCI 673A	Princ Molecular Biology	2	Reece, McDowell, Song	SP	even				X					MSCI 673B or 673C
MSCI 673B	Metagenomics & Bioinformatics	2	Song	SP	even				X					MSCI 673A
MSCI 673C	Princ Mol & Phylo-Genetics	2	McDowell, Reece	SP	even				X					MSCI 673A
MSCI 675	Molecular Techniques	1-2	Song	SP	AR									
MSCI 676	Bayesian Modeling	1	Chiu	SU	odd		X						MSCI 669	
MSCI 679	Dependent Data Structures	3	Chiu	SP	all	X			X			X	MSCI 669	
MSCI 687	Environmental Policy	3	WM Public Policy	FA	AR									
MSCI 688	Coastal and Marine Policy Seminar	1-2	Scheld, Mitchell	SP	all	X			X			X		
MSCI 689	Pub Pol for Sci & Professions	3	Rossiter	FA	all			X			X			
MSCI 690	Spatial Modeling	1	Chiu	SU	even					X			MSCI 676 or 679	
MSCI 693	Environmental Law	3	WM Law School	SP	AR									
MSCI 694	Land Use Control	3	WM Law School	FA	AR									
MSCI 695	Administrative Law	3	WM Law School	FA SP	AR									
MSCI 697	Hatchery & Nursery Operations	2	Walton	ALL	AR	X	X	X	X	X			MSCI 560A	
MSCI 697	Problems in Population Genetics	2	McDowell	FA	even						X			
MSCI 697	VA Coastal Policy Practicum	2	Mitchell, S. Stafford	FA	all			X			X			
MSCI 698	Climate Change	2	WM Law School	SP	AR									
MSCI 698	Coastal Transport Modeling	2	Harris	SP	AR									
MSCI 698	GIS for Marine Science	3	Loftis	SP	AR									
MSCI 698	Model Implementation & Analysis	3	Harris	FA	AR									