

Course	Course Title	Credit Hours	Current Course Instructor(s)	Term	Year	FA24	SP25	SU25	FA25	SP26	SU26	pre-requisites	co-requisites	XL courses
MSCI 201	Marine Science Mash-Up	1	Hein	FA	all	X			X					
MSCI 330	Intro to Marine Sci	3	Brush	SP	all		X			X				BIOL 330, ENSP 230, GEOL 330
MSCI 331	Field Studies in Coastal Mar Env	3	Krueger-Hadfield, Snyder	SU	all			X			X	MSCI 330		ENSP 440
MSCI 332	Coastal Habitats in North Wales	3	Luckenbach, Hein	SU	even						X	MSCI 330		ENSP 440
MSCI 340	Marine Biology	3	Shields	SP	all		X			X		BIOL 204		BIOL 340
MSCI 398	Marine Science Seminar - Various Titles	1	Various Teaching Fellows	FA   SP	all	X	X		X	X				ENSP 249
MSCI 401A	Motion of the Ocean: Fundamentals Phys Oc	3	Gong	SP	all		X			X				
MSCI 401B	Fundamentals Chem Oce	3	Hardison	SP	odd		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				
MSCI 401F	Fundamentals Mar Fisheries Science	3	Hilton	SP	odd		X							BIOL 404
MSCI 401R	Fundamentals Mar Sci - Recitation	1	Various	FA   SP	all	X	X		X	X			MSCI 401C, 401D, 401E	
MSCI 404	Microb Proc Coast Envir	2	Song	FA	all				X					BIOL 404
MSCI 421	Marine Geology	3	Hein	FA	even	X								GEOL 421
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				
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				
MSCI 501F	Fundamentals Mar Fisheries Sci	2	Hilton, Scheld	SP	all		X			X				
MSCI 503	Interdis Res Estua/Coastal Sys	2	Brush	SP	all		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							
MSCI 515	Marine Science Seminar	0-1	M. Friedrichs, C. Friedrichs, Rudders	FA   SP	all	X	X		X	X				
MSCI 521	Advanced Marine Geology	3	Hein	FA	even	X						ugrad-level intro geology		MSCI 421, GEOL 421
MSCI 523	Human Dimensions of Marine Science	3	Michaelis	FA	even	X								
MSCI 529	Fish Physiology	3	Dichiera	SP	odd		X							
MSCI 531	Water System Processes	3	Zhang	FA	odd				X					CEE 618 (UWisc)
MSCI 532	Intro to Hydrodynamic 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									GEOL 407
MSCI 548	Scientific Illustration	1	Hilton	SP	AR									
MSCI 550	Rivers: Processes & Problems	3	Hein, Fabrizio	SP	3 yr					X				
MSCI 551	Directed Readings in Shellfish Aquaculture	1	Walton, Carnegie	Fall	odd				X					
MSCI 552A	Aquaculture in Practice: Ches Bay	2	Walton, Michaelis	SU	even						X			
MSCI 552B	Aquaculture in Practice: New Perspectives	2	Walton	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		ugrad-level intro stat		
MSCI 559	Parasitology	3	Shields	FA	odd				X					BIOL 404/504

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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	Statistics & Graphics in R	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	X				
MSCI 571	Marine Ecology	3	Johnson	SP	all		X			X				
MSCI 574	Phytoplankton Ecology	2	Millette	SP	odd		X							
MSCI 575	Aquatic Microbial Ecology	3	Song	SP	odd		X							
MSCI 583	Bioinformatics	3	McDowell, Reece	SP	odd		X							
MSCI 597	Internship in Marine Science	4	Mitchell	ALL	all	X	X	X	X	X	X			
MSCI 598	Capstone Research in Marine Science	2-6	Mitchell	ALL	all	X	X	X	X	X	X			
MSCI 602	SCHISM Modeling	3	Zhang	SP	even		X			X		MSCI 531 or MSCI 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 620A	Coastal Environments I	1	Kuehl	FA	3 yr				X					
MSCI 620B	Coastal Environments II	1	Kuehl	FA	3 yr									
MSCI 620C	Coastal Environments: Belize	2	Kuehl	FA	3 yr	X								
MSCI 622	Holocene Coastal Evolution	3	Hein	SP	3 yr							MSCI 501C or MSCI 521	MSCI 501C or MSCI 521	
MSCI 626	Global Ocean Change Biology	2	Rivest	FA	even	X								
MSCI 631	Wetland Ecogeomorphology	3	Kirwan	SP	all		X			X				
MSCI 644	Aquatic Epidemiology	3	Wargo	SP	even					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							
MSCI 666	Ichthyology	4	Hilton	SP	even					X				
MSCI 667	Got Data, Now What?	2-3	Lipcius	SP	all		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	even	X								
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			MSCI 669	
MSCI 687	Environmental Policy	3	WM Public Policy	FA	AR									LAW 345, PUBP 622
MSCI 688	Coastal and Marine Policy Seminar	1-2	Scheld, Mitchell	SP	all		X			X				
MSCI 689	Pub Pol for Sci & Professions	3	Rossiter	FA	all	X			X					BUAD 6951, LAW 347, PUBP 614
MSCI 690	Spatial Modeling	1	Chiu	SU	even						X	MSCI 679 or MSCI 676		
MSCI 693	Environmental Law	3	WM Law School	SP	AR									LAW 424
MSCI 694	Land Use Control	3	WM Law School	FA	AR									LAW 425
MSCI 695	Administrative Law	3	WM Law School	FA   SP	AR									LAW 453
MSCI 697	Problems in Population Genetics	2	McDowell	FA	even	X								

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MSCI 697	VA Coastal Policy Practicum	2	Mitchell, S. Stafford	FA	all	X			X					
MSCI 698	Climate Change	2	WM Law School	SP	AR									LAW 679, PUBP 614
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									