Degree Programs

Bachelor of Science in Marine Sciences

Master of Science in Marine Sciences



Externally Supported Research & Training Programs

DOEd SSUMMS

NOAA LMRCSC

NSF Bridge to Research

Office of Naval Research (ONR)

Contact us to schedule a tour! Department of Marine and Environmental Sciences Faculty Offices and Research Facility 2717 Livingston Ave Savannah, Georgia 31406 p: 912-358-4101 | f: 912-358-4046

Marine Sciences Program

www.savannahstate.edu/marinesciences

The SSU Marine Sciences Program provides vital research, education, and outreach programming to develop a technically qualified, intellectually thoughtful, and ethnically diverse community of ocean scientists.

Stop by to meet the faculty and visit our beautiful locations next to Country Club Creek!



Boat photo courtesy of Dr. Matthew Gilligan, "Students collecting samples" courtesy of Courtney Pegus.



R. Kiser sampling courtesy of Robin Perrtree.

The Marine Sciences Program at Savannah State University offers an array of hands on educational research opportunities. Popular experiences include sample and data collection aboard SSU's vessels, including the *R/V Margaret C. Robinson*. Skills in aquarium systems, GIS, data analytics, technical writing, and ocean instrumentation are developed in our courses and are applied in student research.







A University System of Georgia Institution

Program Map: Marine Sciences Department of Marine and Environmental Sciences, College of Sciences and Technology

Core IMPACTS Curriculum (Program Preferred Options in Bold)			
	- Institutional Priority - 5 hrs		
1.	AFRS 1501 Survey of African-American Experience	2 hrs	
2.	Select one of the following:		
	DATA 1501 Introduction to Data Science	3 hrs	
	POLS 2401 Global Issues	3 hrs	
	HUMN 1201 Critical Thinking & Communication	3 hrs	
4	AFRS 2000 Introduction to Africana Studies	3 hrs	
<i>Area M – Mathematics & Quantitative Skills – 3 hrs</i> 1. Select one of the following:			
1.	Select one of the following: MATH 1001 Quantitative Reasoning	3 hrs	
	MATH 1001 Quantitative Reasoning MATH 1111 College Algebra	3 hrs	
	MATH 1401 Elementary Statistics	3 hrs	
	MATH 1113 Pre-Calculus	3 hrs	
Area P – Political Science and U.S. History - 6 hrs			
1.	POLS 1101 American Government	3 hrs	
2.	HIST 2111 U.S. History to the Post-Civil War Period	3 hrs or	
	HIST 2112 U.S. History from the Post-Civil War to I		
Area A – Arts, Humanities and Ethics - 6 hrs			
1.	Select two of the following:		
	ARTS 1101 Introduction to Visual Art	3 hrs	
	DNCE 2010 Dance Appreciation	3 hrs	
	ENGL 2111 World Literature I	3 hrs	
	ENGL 2112 World Literature II	3 hrs	
	ENGL 2121 British Literature I	3 hrs	
	ENGL 2122 British Literature II	3 hrs	
	ENGL 2131 American Literature I	3 hrs	
	ENGL 2132 American Literature II	3 hrs	
	ENGL 2140 Introduction to African American Literat		
	ENGL 2521 Introduction to Film	3 hrs	
	HUMN 2011 Humanities	3 hrs	
	MUSC 1101 Introduction to Music	3 hrs	
	PHIL 2010 Introduction to Philosophy	3 hrs	
	PHIL 2030 Introduction to Ethics	3 hrs	
1C	THEA 2101 Introduction to Theatre	3 hrs	
Area C - Communicating in Writing - 6 hrs 1. ENGL 1101 English Composition I 3 hrs			
2.	ENGL 1101 English Composition II	3 hrs	
	–Technology, Mathematics and Sciences - 10 hrs	5 1115	
1. <u>Select one of the following</u> :			
	ASTR 1000 Introduction to the Universe	3 hrs	
	BIOL 1103/1103L General Biology	4 hrs	
	BIOL 1104/1104L Human Biology	4 hrs	
	CILS 1130 Computer Applications	3 hrs	
	CSCI 1130 Computer Applications	3 hrs	
	CSCI 1301 Computer Science I	3 hrs	
	DATA 1501 Introduction to Data Science	3 hrs	
	ENVS 1140 Environmental Issues	3 hrs	
	FSCI 1107 Introduction to Molecular Forensic Science	e 3 hrs	
	ISCI 1101 Integrated Science I	3 hrs	
	MATH 1111 College Algebra	3 hrs	
	MATH 1401 Elementary Statistics	3 hrs	
	MATH 1113 Pre-Calculus	3 hrs	
2.	Select two of the following lab sciences:		
	BIOL 1103/1103L General Biology	3+1 hrs	
	BIOL 1104/1104L Human Biology	3+1 hrs	
	BIOL 1107/1107L Principles of Biology I	3+1 hrs	
	BIOL 1108/1108L Principles of Biology II CHEM 1101K Introductory Chemistry	3+1 hrs	
	CHEM 1101K Introductory Chemistry CHEM 1211/1211L Principles of Chemistry	4 hrs 3+1 hrs	
	CHEM 1212/1211L Principles of Chemistry CHEM 1212/1212L Principles of Chemistry	3+1 hrs	
	ISCI 1111K Integrated Science II	4 hrs	
	MSCI 1501K Introduction to Marine Biology	4 hrs	
	PHYS 1111K Introductory Physics I 4 hrs		
	PHYS 1112K Introductory Physics II 4 hrs		

PHYS 2211K Principles of Physics I 4 hrs			
PHYS 2212K Principles of Physics II 4 hrs			
Area S – Social Sciences - 6 hrs			
1. <u>Select two of the following</u> :			
AFRS 2000 Introduction to Africana Studies 3 hrs			
ANTH 1101 Introduction to Anthropology 3 hrs			
ECON 2105 Principles of Macro-Economics 3 hrs			
GEOG 1101 Introduction to Human Geography 3 hr	S		
HIST 1111 World Hist to Early Modern Times 3 hrs			
HIST 1112 World History Early Modern Times to Pr	res 3 hrs		
POLS 2401 Global Issues 3 hrs			
PSYC 1101 Intro to General Psychology 3 hrs			
PSYC 2103 Human Growth & Development 3 hrs			
SOCI 1101 Introduction to Sociology 3 hrs			
SOCI 1160 Social Problems 3 hrs			
Major Guidelines***			
Field of Study Area (17 hrs)			
COST 1103 First Year Experience	2 hrs		
MSCI 1810K Marine Biology	4 hrs		
MSCI 2010K Intro to Oceanography	4 hrs		
PHYS 1111K Introductory Physics or			
PHYS 2211K Principles of Physics	4 hrs		
MATH 1401 Elementary Statistics or			
MATH 3000 Intro to Biostatistics	3 hrs		
Major Requirements (28 hrs)			
BIOL 1107L Prin of Biology I Lab	3 hrs		
MATH 2101 Calculus I	4 hrs		
CHEM 2501 Organic Chemistry	3 hrs		
CHEM 2501 Organic Chemistry Lab	1 hr		
CHEM 3301K Marine Chemistry & Analysis	4 hrs		
MSCI 3901 Technical Writing	3 hrs		
MSCI 4201K Marine Ecology	4 hrs		
MSCI 4350K Biological Oceanography	4 hrs		
MSCI 4902 Sr. Research/Internship	3 hrs		
MSCI 4904 Sr. Seminar	1 hr		
Marine Science Electives (6 hrs selected from options below)*	**		
MSCI 3401K Marine Invertebrate Zoology	4 hrs		
MSCI 3501 Ichthyology	4 hrs		
MSCI 4401K Marine Sediments	4 hrs		
MSCI 4447 Marine Mammalogy	3 hrs		
Marine Science Tools Electives (6 hrs selected from options be	elow)***		
MSCI 2701K Aquarium Systems I	4hrs		
MSCI 2702K Aquarium Systems II	4 hrs		
MSCI 3560 Big Data Analysis	3hrs		
MSCI 3702 Intro to GIS	3 hrs		
MSCI 4572 Oceanographic Instrumentation	3 hrs		
Math/Science Electives (3 hrs selected from options below)***	*		
PHYS 1112K/2212K Intro/Principles Physics II	4 hrs		
MATH 2111 Calculus II	4 hrs		
CHEM 2511/L Organic Chemistry II	4 hrs		
CHEM 3801 Biochemistry	3 hrs		
Other COST Electives (17 hrs)			
Additional courses within the College of Science & Techno			
2 MSCI courses. *** Extra hrs from the elective categories			
count here, for a total of 17 hours. 39 hours of 3000/4000 h			
required for the degree, thus limiting use of 1000/2000 elec	tives.		
Program Description			
The mission of the SSU Marine Sciences Program is to provide vital research,			
education, and outreach programming to develop a technically qualified,			
intellectually thoughtful, and ethnically diverse community of ocean scientists. Students are trained in research and science communication			
throughout their studies and develop technical skill sets for competitive job			
placement. The university is adjacent to a salt marsh tidal creek, has two docks, and multiple boats for instruction and research.			
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