MARINE SCIENCE, M.S.

Degree Requirements (30 Hours)

General requirements for degrees in Marine Science are the same as those established by the Graduate School. The M.S. program of study and other specific degree requirements are planned in consultation with the graduate student, the graduate student's advisory committee, the Marine Science Graduate Studies Committee, and the Marine Science Program Director.

The M.S. degree requires the satisfactory completion of a minimum of 30 credit hours, including 12 hours of core courses and one additional course numbered 700 or above (other than 799, Thesis Preparation). The remaining credits may be earned in courses numbered above 500, including 6 hours of 799.

M.S. students must achieve and maintain an overall GPA of 3.00 on all courses taken for graduate credit and complete each of the core courses with a minimum grade of B.

A written thesis is required of all Masters students. Students must successfully defend their thesis in a final Comprehensive Examination according to the calendar approved by the Graduate School. As a portion of the comprehensive assessment of the thesis, the material will be presented in a public seminar. This presentation must take place no earlier than sixty (60) days after successful MS Thesis Research Plan presentation. The student's major professor must notify the Graduate Studies Director of an impending defense in writing (an email is sufficient) not less than 14 days prior to the scheduled defense date. This notification must include an abstract of the thesis. The defense must be publicly announced not less than seven days prior to the defense and is open to all faculty and students. At the end of the seminar, the audience will be excused and the defense will continue with only the candidate, the advisory committee and interested members of the faculty present. The thesis advisor must inform the Graduate Studies Director via appropriate form when the thesis is satisfactorily defended and accepted by the committee.

Required Courses for Marine Science Program

The following courses are required for students in the Marine Science Program unless they are specifically exempted:

Course	Title	Credits
MSCI 745	Geological Oceanography	3
MSCI 750	Advanced Biological Oceanography	3
MSCI 781	Physical Oceanography	3
MSCI 782	Chemical Oceanography	3
Total Credit Hours		12

Areas of Emphasis in Marine Science

A number of courses exist in various departments and colleges that enable students to specialize in a particular area of emphasis in marine science.

- · Marine biology/Biological oceanography
- · Marine chemistry/Chemical oceanography
- · Marine geology/Geological oceanography
- · Physical oceanography/Atmospheric dynamics

Non-MSCI Courses Acceptable for Major Credit

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Course	Title	Credits
BIOL 534	Animal Behavior	3
BIOL 534L	Animal Behavior Laboratory	1
BIOL 543	Comparative Physiology	3
BIOL 543L	Comparative Physiology Laboratory	1
BIOL 570	Principles of Ecology	3
BIOL 570L BIOL 651	Principles of Ecology Laboratory	1
	Limnology	4
BIOL 722	Aquatic Bacteriology	3
BIOL 722L	Aquatic Bacteriology Laboratory	1
BIOL 727	Marine Phytoplankton	3
BIOL 728	Advanced Phycology	3
BIOL 729	The Biology of Fish	3
BIOL 730	The Biology of Fish	3
BIOL 731	Advanced Invertebrate Zoology I	3
BIOL 755	Quantitative Ecology	3
BIOL 759	Physiological Ecology	3
BIOL 760	Electron Microscopy	3
BIOL 760L	Electron Microscopy Laboratory	
CHEM 511	Inorganic Chemistry	3
CHEM 541L	Physical Chemistry Laboratory	2
CHEM 542	Physical Chemistry	3
CHEM 542L	Physical Chemistry Laboratory	2
CHEM 729	Special Topics in Analytical Chemistry	3
CHEM 741	Chemical Thermodynamics	3
EMCH 501	Engineering Analysis I	3
EMCH 502	Engineering Analysis II	3
EMCH 741	Viscous and Turbulent Flow	3
EMCH 751	Advanced Heat Transfer	3
EMCH 794	Thermodynamics	3
ECIV 751	Water and Wastewater Treatment Theory I	3
ECIV 752	Water and Wastewater Treatment Theory II Industrial Wastewater Treatment	3
ECIV 755	madeliai rideteriater riedtirierit	3
ECIV 765	Erosion and Sediment Control	
GEOG 510	Special Topics in Geographic Research	3
GEOG 531	Quantitative Methods in Geographic Research	3
GEOG 541	Advanced Cartography Weather Applying and Egregating	3
GEOG 545 GEOG 546	Weather Analysis and Forecasting	
GEOG 540 GEOG 551	Applied Climatology Remote Sensing of the Environment	4
GEOG 551	•	
GEOG 563	Spatial Programming Advanced Geographic Information Systems	3
GEOG 763	Seminar in Geographic Information Systems	3
GEOL 516	Sedimentology	4
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GEOL 518	Surface to Subsurface Stratigraphy	3
GEOL 520	Isotope Geology and Geochronology	3
GEOL 546 GEOL 570	Marine Geophysics	3
GEOL 570	Environmental Hydrogeology	3
GEOL 722 GEOL 750	Aqueous Geochemistry	3
	Basin Analysis Seminar	
GEOL 751	Carbonate Petrology	3

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