

The University of Southern Mississippi

Division of Marine Science

Fall 2022 - Course List

HYD 600	Classical Geodesy	Mon / Wed	8:00am – 9:15am
HYD 607	Oceanography for Hydrographers	Mon / Wed	9:30am – 10:45am
HYD 608	Practical Hydrographic Science	Tues / Thurs	9:30am – 10:45am
HYD 609	Nautical Science	Tuesdays	1:00pm – 3:45pm
HYD 620	Math Concepts for Hydrographers	Tues / Thurs	8:00am – 9:15am
MAR 591	Special Topics in Marine Science: Scientific Writing in Ocean Science	Mon / Wed	8:00am – 9:15am
MAR 591 / 684	Special Topics in Marine Science / Geological Oceanography	Thursdays	1:00pm – 3:45pm
MAR 640	Marine Chemistry	Tues / Thurs	9:30am – 10:45am
MAR 640L	Marine Chemistry Laboratory	Tuesdays	1:00pm – 3:45pm
MAR 660	Physical Oceanography	Mon / Wed	9:30am – 10:45am
MAR 660L	Physical Oceanography Laboratory	Wednesdays	1:00pm – 3:45pm
MAR 668	Applied Ocean Acoustics	Mon / Wed	11:00am – 12:15pm
MAR 670	Coastal Physical Oceanography	Tues / Thurs	11:00am – 12:15pm
MAR 689	Seminar in Marine Science	Fridays	2:30pm – 3:30pm

Course Descriptions

HYD 600	Classical Geodesy	Mon / Wed	8:00am – 9:15am
	Instructor: Hiroji		
	(Section G001) Prerequisite(s): Permission of instructor. Introduction to determination of curvature, shape, and dimensions of the earth, and to positions of ocean bottom features and topography.		
HYD 607	Oceanography for Hydrographers	Mon / Wed	9:30am – 10:45am
	Instructor: Diercks		
	(Section G001) An integrated approach to the oceanographic operating environment, this course covers physical oceanography and marine geology.		
HYD 608	Practical Hydrographic Science	Tues / Thurs	9:30am – 10:45am
	Instructor: Neves		
	(Section G001) Prerequisite(s): Permission of instructor. Practical aspects of planning, conducting, and evaluating results of hydrographic projects.		

HYD 609	Nautical Science Instructor: Neves (Section G001) This is an 8-week course that will begin the week of August 22 nd . Prerequisite(s): Permission of instructor. This course will provide the student with a basic understanding of the principles of nautical science as applied to hydrographic science.	Tuesdays	1:00pm – 3:45pm
HYD 620	Math Concepts for Hydrographers Instructor: Nechaev (Section G001) Prerequisite(s): Permission of instructor. Application of mathematical and statistical concepts for hydrographic science.	Tues / Thurs	8:00am – 9:15am
MAR 591	Special Topics in Marine Science: Scientific Writing in Ocean Science Instructor: Mojica (Section G003) Prerequisite(s): Permission of instructor. Directed study in area for which no formal courses are offered.	Mon / Wed	8:00am – 9:15am
MAR 591 / 684	Special Topics in Marine Science / Geological Oceanography Instructor: Wallace (591: Section G002; 684: Section G001) Prerequisite(s): Permission of instructor. Directed study in area for which no formal courses are offered.	Thursdays	1:00pm – 3:45pm
MAR 640	Marine Chemistry Instructor: Hayes (Section G001) Prerequisite(s): CHE 100, MAT 168 or permission of instructor. Sea water chemistry and cycles and their impact on the marine environment.	Tues / Thurs	9:30am – 10:45am
MAR 640L	Marine Chemistry Laboratory Instructor: Hayes (Section G001) Corequisite(s): MAR 640. A laboratory designed to accompany MAR 640.	Tuesdays	1:00pm – 3:45pm
MAR 660	Physical Oceanography Instructor: Buijsman (Section G001) Prerequisite(s): PHY 112, or 202 and MAT 168 or permission of instructor. An introduction to the physical properties of the oceans.	Mon / Wed	9:30am – 10:45am
MAR 660L	Physical Oceanography Laboratory Instructor: Buijsman (Section G001) A laboratory designed to accompany MAR 660.	Wednesdays	1:00pm – 3:45pm

- MAR 668** **Applied Ocean Acoustics** **Mon / Wed** **11:00am – 12:15pm**
Instructor: Oguntuase
(Section G001) Prerequisite(s): Permission of instructor. Fundamentals of sound propagation, scattering and noise in the sea and applications for transducers, arrays, and signal processing.
- MAR 670** **Coastal Physical Oceanography** **Tues / Thurs** **11:00am – 12:15pm**
Instructor: Nechaev
(Section G001) Prerequisite(s): MAR 660 or permission of instructor. Dynamic circulation of continental shelves; includes steady and time-varying flows, pressure gradients, wind stress, bottom friction, and oceanic forcing.
- MAR 689** **Seminar in Marine Science** **Fridays** **2:30pm – 3:30pm**
Instructor: Wiggert & Nechaev
(Section G001) Prerequisite(s): Permission of instructor. Current topics in marine science explored via student discussion and presentation. May be repeated.

University of Southern Mississippi Registration Information

Registration

Students interested in registering for a USM Division of Marine Science class should contact Dajaneir Thompson at 228.688.3177. Classes begin August 22nd.

Admissions

All student applicants must complete an application form and provide official transcripts from all schools attended. All students entering USM for the first time must document proof of immunization for measles, mumps, and rubella.

Students pursuing a master's and Ph.D. degree must be fully admitted to the Graduate School and follow a program approved by the major department and the Graduate School. Application materials for Marine Science should be obtained from the Division of Marine Science in Building 1020 (phone number: 228-688-7097).

<https://www.usm.edu/admissions/>

Non-Degree Seeking Student Admission

Students who do not wish to pursue a degree may seek admission as a non-degree seeking student. However, only a limited number of non-degree credits may be applied towards a master's degree, and no non-degree credits may be applied towards a doctoral degree.

Tuition for Fall 2022

Graduate Students: Resident tuition is \$512.12 per graduate semester hour for 1-8 hours. Non-resident tuition is \$624.12 per graduate semester hour for 1-8 hours.

More information about tuition and fees can be found at: <https://www.usm.edu/business-services/general-tuition-fees.php>

More information about residency status can be found at: <https://www.usm.edu/registrar/mississippi-residency.php>

Note: The Center of Higher Learning makes every attempt to accurately list tuition rates for our participating universities. It is advisable, however, to check with the University before submitting your final paperwork or payment.

Refund Schedule

100% minus a \$30 fee	First 6 working days
0%	After 6 working days

See <https://www.usm.edu/business-services/withdrawals-and-tuition-credit> for important refund information.

Important Dates

August 22 nd	Classes begin
August 29 th	Last day to drop full term classes without academic or financial penalty and receive 100% tuition credit
December 5 th	Final exams begin