

Curriculum Structure

Fourth Academic Year	<div>Marine Biology</div> <div><ul style="list-style-type: none">●Field Work in Biological Oceanography●Independent Studies in Marine Biology(I)(II)●Molecular Cell Biology●Physiology of Marine Organisms●Marine Invertebrate Zoology(I)(II)</div>	<div>Marine Chemistry</div> <div><ul style="list-style-type: none">●Field Work in Chemical Oceanography●Independent Studies in Marine Chemistry(I)(II)</div> <div>Marine Geochemistry</div> <div>Marine Pollution and Sea Life</div>	<div>Marine Geology</div> <div><ul style="list-style-type: none">●Field Work in Geological Oceanography●Independent Studies in Marine Geology(I)(II)●Introduction to Paleoclimatology●Electron Microscopic Analysis●Exploration and Implement of Geosciences</div>	<div>Physical Oceanography</div> <div><ul style="list-style-type: none">●Field Work in Physical Oceanography●Independent Studies in Physical Oceanography(I)(II)●Remote Sensing in Oceanography●Dynamical Oceanography●Wave and Tide●Application of Fluid Mechanics for Ocean Dynamics, Remote Sensing and Numerical Simulation</div>
	<div>Seminar(I)(II)(適用 108 學年度前入學學生), Off-Campus Internship and Practice, Marine Environmental Impact Assessment, Advanced Scientific English, Overseas Internship and Practice, Graduation Project, Seminar(適用 108 學年度(含)之後入學學生)</div>			
Third Academic Year	<div><ul style="list-style-type: none">●Marine Vertebrate Zoology●Biodiversity Action Planning Skills in Practice●Marine Biodiversity and Ecology●Introduction of Fisheries Science●Marine Microbiology and Practice</div>	<div><ul style="list-style-type: none">●Marine Chemistry●Trace Analysis of Seawater●Modern Oceanography</div> <div>Introduction to Geochemistry, Data Processing in Marine Chemistry and Geology</div>	<div><ul style="list-style-type: none">●Introduction to Paleoceanography●Introduction to Geophysics●Coastal Geology●Marine Micropaleontology (Practice)</div>	<div><ul style="list-style-type: none">●Fluid Mechanics(I)(II)●Data Analysis in Physical Oceanography●Ocean Hazards●Coastal Hydrodynamics●Advanced Applied Mathematics(I)(II)●Numerical Methods with Matlab●Environmental Data Analysis and Matlab Programming</div>
	<div>Scientific English(I)(II), Shipboard Operations Practice, Ocean Observation and Investigation, The Development of Observing Instrument and Vehicle For Marine Science</div>			
Second Academic Year	<div><ul style="list-style-type: none">●Introduction to Marine Biology●General Biology(I)●Phytoplankton●Introduction to Marine Ecology●Fundamental Biochemistry</div>	<div><ul style="list-style-type: none">●Introduction to Marine Chemistry●Analytical Chemistry (I)(II)</div> <div>Introduction to Environmental Science</div> <div>Introduction to Global Environmental Change</div>	<div><ul style="list-style-type: none">●Mineralogy(Laboratory)●General Geology (Laboratory)●Introduction to Earth Science</div>	<div><ul style="list-style-type: none">●Introduction to Physical Oceanography●Oceanic Circulation●Marine Sciences Observation Technology and Applications●Meteorology●Physical Oceanography Practice</div>
	<div>Frontier of Marine Sciences, Applied Statistics(Practice)(I)(II), Programming Design</div>			
First academic year	<div>Calculus(I)(II), General Chemistry(I)(II), General Physics(I)(II), Ocean System Sciences(I)(II), General Biology(I), Marine Chemistry Laboratory(I)(II), General Physics Laboratory(I)(II), General Biology Laboratory, Applied Marine Sciences (院核心必修課程)</div>			