

Curriculum Structure

<p>Fourth Academic Year</p>	<p>Marine Biology</p> <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) 	<p>Marine Chemistry</p> <ul style="list-style-type: none"> ●Field Work in Chemical Oceanography ●Independent Studies in Marine Chemistry(I)(II) 	<p>Marine Geology</p> <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 	<p>Physical Oceanography</p> <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
<p>Marine Geochemistry</p>				
<p>Marine Pollution and Sea Life</p>				
<p><u>Seminar(I)(II)</u>(適用 108 學年度前八學學生), Off-Campus Internship and Practice, Marine Environmental Impact Assessment, Advanced Scientific English, Overseas Internship and Practice, <u>Graduation Project</u>, <u>Seminar</u>(適用 108 學年度(含)之後入學學生)</p>				
<p>Third Academic Year</p>	<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 	<ul style="list-style-type: none"> ●Marine Chemistry ●Trace Analysis of Seawater ●Modern Oceanography 	<ul style="list-style-type: none"> ●Introduction to Paleoceanography ●Introduction to Geophysics ●Coastal Geology ●Marine Micropaleontology (Practice) 	<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
<p>Introduction to Geochemistry, Data Processing in Marine Chemistry and Geology</p>				
<p><u>Scientific English(I)(II)</u>, <u>Shipboard Operations Practice</u>, Ocean Observation and Investigation, The Development of Observing Instrument and Vehicle For Marine Science</p>				
<p>Second Academic Year</p>	<ul style="list-style-type: none"> ●<u>Introduction to Marine Biology</u> ●General Biology(I) ●Phytoplankton ●Introduction to Marine Ecology ●Fundamental Biochemistry 	<ul style="list-style-type: none"> ●<u>Introduction to Marine Chemistry</u> ●Analytical Chemistry (I)(II) 	<ul style="list-style-type: none"> ●Mineralogy(Laboratory) ●General Geology (Laboratory) ●Introduction to Earth Science 	<ul style="list-style-type: none"> ●<u>Introduction to Physical Oceanography</u> ●Oceanic Circulation ●Marine Sciences Observation Technology and Applications ●Meteorology ●Physical Oceanography Practice
<p>Introduction to Environmental Science</p>				
<p>Introduction to Global Environmental Change</p>				
<p>Frontier of Marine Sciences, Applied Statistics(Practice)(I)(II), Programming Design</p>				
<p>First academic year</p>	<p><u>Calculus(I)(II)</u>, <u>General Chemistry(I)(II)</u>, <u>General Physics(I)(II)</u>, <u>Ocean System Sciences(I)(II)</u>, <u>General Biology(I)</u>, Marine Chemistry Laboratory(I)(II), General Physics Laboratory(I)(II), General Biology Laboratory, <u>Applied Marine Sciences</u> (院核心必修課程)</p>			