Department of Oceanography National Sun Yat-sen University Curriculum for the Graduate School

Subjects of Compulsory or Elective	Division	Division of Marine Biology		Division of Marine Chemistry and Geology		Division of Physical
	Ph.D. /M.S.			Marine Chemistry	Marine Geology	Oceanography
Compulsory	Ph.D. Program	 ◆#Seminar in Marine Biology(I)(II)(III)(IV) ◆Introduction to Oceanography ◆Independent Studies in Marine Biology (I)(II)(III)(IV) Core Curriculum: (Require 3 out of the 4) ◆Marine Ecology ◆Systematics and Evolution ◆Physiology of Marine Organisms ◆Molecular Cell Biology 		◆Colloquium(I)(II)(III)(IV) ◆Scientific English(I)(II)(III)(IV)		●Seminar in Physical Oceanography(I)(II)(III)(IV) ●Advanced Physical Oceanography(I)(II)
		●Introduction to Oceanography (海洋相關科系畢業者可免修) ●Oceanographic Cruise (海洋相關科系畢業並且修過海上實習相關的課程可免修)				
	Masters Program	●#Seminar in Marine Biology(I)(II)(III)(IV) ●Independent Studies in Marine Biology (I)(II)(III)(IV) Core Curriculum: (Require 2 out of the 4) ●Marine Ecology ●Systematics and Evolution ●Physiology of Marine Organisms ●Molecular Cell Biology		Technical Writing(I) Advanced Marine Chemistry Advanced Marine Geology Colloquium(I)(II)(III)(IV)		●Seminar in Physical Oceanography(I)(II)(III)(IV) ●Advanced Physical Oceanography(I)(II)
	Ph.D. Program	#Special Topics on Oceanography#Practicum in Oral Presentation for International Conferences				
Elective	Masters Program		ety concerns. Students attend e insurance required.	-	Oclimate Dynamics Advanced Paleoceanography Introduction to Paleoclimatology Coastal Geology Analyses of Marine Sediments Coastal and Estuarine Processes Coastal and Estuarine Processes Laboratory Stable Isotope Geochemistry Advanced Radioisotope Geochemistry Independent Studies In Marine Geology and Biogeochemistry (I)(II)(III)(IV) Data Processing in Marine Chemistry and Geology arine Sciences to necessary measures and obtain was	 Dynamical Oceanography Marine Numerical Analysis Ocean Currents and Circulation Ocean Turbulence and Mixing Field Observations and Data Analysis Wave and Tide Independent Studies in Physical Oceanography (I)(II)(III)(IV) Environmental Data Analysis and Matlab Programming Sea Ice and High-Latitude Oceanography Nonlinear Waves and Solitary Waves in the Ocean