

MINOR IN AQUATIC ECOLOGY

Host Faculties:

- Faculty of Science (Department of Biological Sciences)
- Faculty of Arts and Social Sciences (Department of Geography)

The Minor in Aquatic Ecology aims to expose students to the important disciplines of marine and freshwater ecological studies while developing relevant specific skills, knowledge, and experience among them. With the increasing governmental, private, and societal interests in aquatic sciences, there is a growing demand for manpower with expertise in freshwater and/or marine ecology. This Minor complements aptly the primary disciplines of students from the Life Sciences Major and Geography Major. It will also enhance the training for students keen in related career opportunities at relevant governmental and private institutions in Singapore, including Public Utilities Board (PUB), National Environment Agency (NEA), National Parks Board (NParks), The Maritime and Port Authority of Singapore (MPA), Tropical Marine Science Institute (TMSI), DHI Group, and Singapore-Delft Water Alliance (SDWA).

To be awarded the Minor, the following requirements are to be fulfilled:

Minor in Aquatic Ecology Requirements (For Cohorts AY2015/16 and earlier)	Minor in Aquatic Ecology Requirements (For Cohorts AY2016/17 and after)
Essential Modules – Pass the following 4 modules	Essential Modules – Pass the following 4 modules
LSM1103/LSM2252 Biodiversity	LSM2251 Ecology and Environment
LSM2251 Ecology and Environment	LSM3254 Ecology of Aquatic Environments
GE2229 Water and Environment	GE2229 Water and Environment
SP3203 Aquatic Ecology Research	SP3203 Aquatic Ecology Research
Elective Modules – Pass 2 of the following modules [For students reading Life Sciences Major, please select at least one non-LSM-prefixed module.] [For students reading Bachelor of Environmental Studies, please select from GEH1033/GEK1548, LSM2253, LSM3264 and LSM4266.]	Elective Modules – Pass 2 of the following modules [For students reading Life Sciences Major, please select at least one non-LSM-prefixed module.]
GE2215 Introduction to GIS and Remote Sensing	GE2215 Introduction to GIS and Remote Sensing
GE2220 Terrestrial and Coastal Environments	GE2220 Terrestrial and Coastal Environments
GE2228 Weather and Climate	GE2228 Weather and Climate
GE3216 Applications of GIS & Remote Sensing	GE3216 Applications of GIS & Remote Sensing
GE3221 Ecological Systems	GE3221 Ecological Systems
GE3223 Environmental Change in the Tropics	GE3223 Environmental Change in the Tropics
GE3246 Environmental Pollution {Newly added}	GE3246 Environmental Pollution {Newly added}
LSM2253 Applied Data Analysis in Ecology and Evolution	LSM2253 Applied Data Analysis in Ecology and Evolution
LSM3254 Ecology of Aquatic Environments	LSM2252 Biodiversity

LSM4257 Aquatic Vertebrate Diversity	LSM4257 Aquatic Vertebrate Diversity
LSM4260 Plankton Ecology {Newly added}	LSM4260 Plankton Ecology {Newly added}
LSM4261 Marine Biology	LSM4261 Marine Biology
LSM4264 Freshwater Biology	LSM4264 Freshwater Biology
LSM4266 Aquatic Invertebrate Diversity {Newly added}	LSM4266 Aquatic Invertebrate Diversity {Newly added}
LSM3264 Environmental Biochemistry	
GEH1033/GEK1548 How the Ocean Works [If GEH1033 is read for this Minor, it cannot be used to fulfil General Education.]	

Note:

For Life Sciences Major students, please take note that the double-counting between Life Sciences Major and this Minor in Aquatic Ecology is up to 8MC or two modules only. Please read sufficient additional LSM modules to fulfill the two programmes.

Application

This Minor is open to undergraduate students from all disciplines, except those who are reading the Bachelor of Environmental Studies (BES) degree from Cohorts AY2016/17 onwards. Application is required and successful entry to the Minor is subject to approval.

Application is via EduRec. Please refer to the Academic Plan Application/Declaration (APAD) [website](#) for more details.

To join the Minor in Semester 1 of AY2020/2021, please submit the application from **17 Apr to 1 May 2020**.

For enquiry on Minor in Aquatic Ecology, you may contact the Minor Programme Coordinator, Assoc Prof Peter Todd (dbspat@nus.edu.sg).