Module code	SB-4313		
Module Title	Aquatic Biology		
Degree/Diploma	Bachelor of Science (Biology)		
Type of Module	Major Option		
Modular Credits	4	**Total student workload**	8 hours/week
		Contact hours	6 hours/week
Prerequisite	None		
Anti-requisite	None		

Aims

The aim of this module is to gain the understanding of biological metabolisms and processes in aquatic ecosystems. All types of watery worlds are covered from poles to tropics with a special attention to the environments of Brunei. Abiotic environment and water properties in aquatic ecosystems are also covered.

Learning Outcomes:

On successful completion of this module, a student will be expected to be able to:

Lower order :	40%	- Describe abiotic environment in aquatic ecosystems - Describe the metabolism of major aquatic organisms - Describe the food webs and ecosystem structure in the oceans
Middle order :	40%	- Analyse and evaluate aquatic abiotic conditions - Analyse and evaluate aquatic primary production - Observe and identify zooplankton - Observe and identify fish
Higher order:	20%	- Develop competence in laboratory skills - Work and learn independently

Module Contents

- Abiotic environment in aquatic ecosystems
- Primary producers and primary production
- Phytoplankton, seaweeds, seagrass
- Zooplankton
- Nekton
- Benthos
- Food webs and energy flows
- The cycles of biogenic elements (carbon, nitrogen, phosphorus)
- Lower invertebrates (sponges and cnidarians)

Assessment	Formative assessment	Tutorial assignments and feedback
	Summative assessment	Examination: 60%
		Coursework: 40% - 3 practical assignments (15%) - 1 oral presentation (5%) - 2 class tests (20%)