



## UNIVERSITI TEKNOLOGI MARA

### BDY511: FOREST AND AQUATIC HABITATS

<b>Course Name (English)</b>	FOREST AND AQUATIC HABITATS <b>APPROVED</b>
<b>Course Code</b>	BDY511
<b>MQF Credit</b>	3
<b>Course Description</b>	This course provides a broad overview of aquatic and forest habitats. This course is designed for all students interested in forest habitats, types and resources and human uses of those resources. It provides an overview of forest attributes and tree species that and the site conditions they occur. This course also introduces students to the fundamental principles of marine and freshwater ecology. In addition, abiotic features of aquatic habitats, dynamic interactions between organisms and their environmental will also be discussed. The importance of forests and aquatic habitats in sustaining human societies is emphasized, and we consider the appropriate roles of humans in managing and conserving forests for the numerous products, values, and amenities they provide.
<b>Transferable Skills</b>	<ol style="list-style-type: none"><li>1. Apply the principle marine and freshwater ecology.</li><li>2. Able to develop and establish the suitable sampling plots in the field work in both terrestrial and aquatic habitats.</li><li>3. Communicate effectively with others to solve some given situations and problems.</li><li>4. Apply the proper skill to identify forest types, habitat formation and tree species identifications.</li><li>5. Able to manage the proper herbarium for tree samples.</li></ol>
<b>Teaching Methodologies</b>	Lectures, Blended Learning, Lab Work, Field Trip, Tutorial
<b>CLO</b>	<p>CLO1 a. Describe to the students knowledge of forest habitat formation as influenced by climatic climax, edaphic climax and biotic climax, within the context of the forest ecosystems and communities where they exist.</p> <p>CLO2 b. Recognize major forest types in Malaysia, the tree species that occur within them, and the site conditions on which they are typically found.</p> <p>CLO3 c. Describe to the students to the fundamental principles of marine and freshwater (stream) ecology.</p> <p>CLO4 d. Describe abiotic features of aquatic habitats, dynamic interactions between organisms and their environment (focus on the community level of organization); and biotic integrity of selected aquatic ecosystems (e.g., coral reefs) including discussions of applied ecology (e.g., coral bleaching).</p>
<b>Pre-Requisite Courses</b>	No course recommendations
<b>Topics</b>	
<b>1. Introduction to course</b> 1.1) N/A	
<b>2. Stream ecology (physical habitat)</b> 2.1) N/A	
<b>3. Energy and nutrients</b> 3.1) N/A	
<b>4. Predation and community patterns</b> 4.1) N/A	
<b>5. Plankton ecology and deep sea biology</b> 5.1) N/A	
<b>6. Introduction to Forest Habitat</b> 6.1) N/A	

<b>7. Climatic Climax Formation</b> 7.1) N/A
<b>8. Edaphic Climax Formation</b> 8.1) N/A
<b>9. Biotic Climax Formation</b> 9.1) N/A
<b>10. Major forest type in Malaysia</b> 10.1) N/A
<b>11. Principle of Forest Management</b> 11.1) N/A
<b>12. Sustainability and Ecosystem management</b> 12.1) N/A
<b>13. Product of Forests</b> 13.1) N/A
<b>14. Implications of forest harvesting toward forest ecology</b> 14.1) N/A

<b>Assessment Breakdown</b>	<b>%</b>
Continuous Assessment	45.00%
Final Assessment	55.00%

<b>Details of Continuous Assessment</b>	<b>Assessment Type</b>	<b>Assessment Description</b>	<b>% of Total Mark</b>	<b>CLO</b>
	Assignment	Assignment	5%	CLO2
	Lab Exercise	Laboratory wok	10%	CLO4
	Test	test 1	10%	CLO3
	Test	test 2	10%	CLO1
	Written Report	written report and presentation for the fieldtrip	10%	CLO2

<b>Reading List</b>	This Course does not have any book resources
<b>Article/Paper List</b>	This Course does not have any article/paper resources
<b>Other References</b>	This Course does not have any other resources