

**SEMESTER II**  
**LSM3272 GLOBAL CHANGE BIOLOGY**

**Prerequisite:** LSM2252

**Workload:** 26 lecture hours + 24 tutorial/practical hours

**Course description:**

The objective of this module is to promote a “general understanding” of current biology-related environmental issues from a multidisciplinary approach. Students will discuss and explore selected themes of prevailing environmental, biological, socio-economical & technological issues/solutions through lectures (based on literature reviews & documentaries of relevant themes), field trips and group projects. Key themes will include (causes, effects, and mitigations of) climate change, environmental changes (to habitats and ecological functions & services), pollution (in light and sound, particularly oceanic noise pollution) and how it affects animal behaviour, & how Singapore should approach & deal with climate change. Key instrumentations involved in environmental sciences will be introduced at relevant topics.

S/N	Selected Topics	Lecture hours
1.	Habitat Loss & Degradation	26h
2.	Biodiversity & Ecosystem Functions & Services	
3.	Diseases	
4.	Pollution: Environmental Change & Behavioural Changes	
5.	Ocean noise pollution	
6.	Climate Change: Causes, consequences, mitigations	
7.	Singapore Environmental Issues	
		Total Lectures: 26h Practicals + Tutorials: 24h
		<b>Total hours:</b> 50h

**MODE OF ASSESSMENT:**

40% CA, 60% Final Examination

**MODULE CO-ORDINATOR:**

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