

# BL4251 Tropical Marine Biology

(BL4251 online module handbook version 46)

**Credits:** 15

**Semester:** 1

**Module Organiser**

Prof Clare Peddie

[cmp@st-andrews.ac.uk](mailto:cmp@st-andrews.ac.uk)

01334 463548

**Pre-requisite Modules:**

**Anti-requisite Modules:**

**Post-requisite Modules:**

**Additional Module**

**Information:**

Please [check MMS](#) regularly for additional module information



image: Tropical Marine Reef System

The goal of this module is to examine the ecological and biological principles underpinning the major tropical marine ecosystems. The module provides an understanding of the ecological processes that control tropical marine ecosystems, and considers the organisms that are characteristic of each. All the major tropical marine habitats will be considered, but with a focus on coral reef, seagrass and mangrove ecosystems. The module also tackles topical research areas on the subject through student-led seminars, which will vary depending on the latest scientific research and the specific interests of participants. On completion of the module, students will have an understanding of coral reef, mangrove and seagrass ecology. They will understand the biology and physiology of corals and be able to identify the major phyla associated with tropical marine ecosystems. The module will also provide an understanding of the threats to tropical marine habitats, current research trends on tropical marine systems, and the scientific approaches and techniques used to tackle scientific questions relating to tropical marine biology.

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[View the current Biology Online Module Catalogue for BL4251](#)

[BL4251View BL4251 \(2018/9\) in the University of St Andrews Module Catalogue](#)

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# BL4251: Timetable

**Legend** (not all modules have every event type):

lecture	tutorial	workshop	practical	other
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## Semester 1: Week 1

DATE & TIME	VENUE	STAFF	EVENT
Friday 21-09-2018 09:00 to 10:00	Bute Building Lecture Theatre D	<a href="#">Prof Clare Peddie</a>	Lecture L1: <b>Introduction to Tropical Marine Biology</b> 2018-9_BL4251_L1

## Semester 1: Week 2

DATE & TIME	VENUE	STAFF	EVENT
Friday 28-09-2018 09:00 to 10:00	Bute Building Lecture Theatre D	<a href="#">Dr Iain Matthews</a> Prof Clare Peddie	Lecture L2: <b>Coral reef fishes. ID &amp; ecology</b> 2018-9_BL4251_L2
Friday 28-09-2018 10:00 to 11:00	Bute Building Lecture Theatre D	<a href="#">Prof Clare Peddie</a> Prof Clare Peddie	Lecture L3: <b>Coral biology</b> 2018-9_BL4251_L3

## Semester 1: Week 3

DATE & TIME	VENUE	STAFF	EVENT
Friday 05-10-2018 09:00 to 10:00	Bute Building Lecture Theatre D	<a href="#">Prof Clare Peddie</a> Prof Clare Peddie	Lecture L4: <b>Coral biodiversity, ID &amp; ecology</b> 2018-9_BL4251_L4
Friday 05-10-2018 10:00 to 11:00	Bute Building Lecture theatre D	<a href="#">Prof Clare Peddie</a>	Lecture L5: <b>Tropical reef survey techniques</b> 2018-9_BL4251_L5

## Semester 1: Week 4

DATE & TIME	VENUE	STAFF	EVENT
Friday 12-10-2018 09:00 to 10:00	Bute Building Lecture theatre D	<a href="#">Dr Iain Matthews</a>	Lecture L6: <b>Coral reef fish behaviour</b> 2018-9_BL4251_L6
Friday 12-10-2018 10:00 to 11:00	Bute Building Lecture Theatre D	<a href="#">Prof Clare Peddie</a> Prof Clare Peddie	Lecture L7: <b>Tropical marine invertebrates. ID &amp; ecology</b> 2018-9_BL4251_L7

## Semester 1: Week 5

DATE & TIME	VENUE	STAFF	EVENT
Friday 19-10-2018 09:00 to 10:00	Bute Building Lecture Theatre D	<a href="#">Dr Iain Matthews</a>	Lecture L8: <b>Coral reef fisheries</b> 2018-9_BL4251_L8
Friday 19-10-2018 10:00 to 11:00	Bute Building Lecture Theatre D	<a href="#">Prof Clare Peddie</a>	Tutorial T1: <b>What makes a good presentation</b> 2018-9_BL4251_T1

## Semester 1: Week 7

DATE & TIME	VENUE	STAFF	EVENT
Friday 02-11-2018 09:00 to 10:00	Bute Building Lecture Theatre D	<a href="#">Prof Clare Peddie</a>	Lecture L9: <b>Mangrove/seagrass ecology</b> 2018-9_BL4251_L9
Friday 02-11-2018 10:00 to 10:30	Bute Building Lecture Theatre D	<a href="#">Prof Clare Peddie</a>	Workshop W1: <b>Alexa Roditi - Damselfish - algae associations</b> 2018-9_BL4251_W1
Friday 02-11-2018 10:30 to 11:00	Bute Building Lecture Theatre D	<a href="#">Prof Clare Peddie</a>	Workshop W2: <b>Alison Parr - Coral bleaching - friend or foe?</b> 2018-9_BL4251_W2

## Semester 1: Week 8

DATE & TIME	VENUE	STAFF	EVENT

Friday 09-11-2018 09:00 to 09:30	Bute Building Lecture Theatre D	<a href="#">Prof Clare Peddie</a>	Workshop W3: <b>Georgie Harwell - Impact of the marine aquarium fish and invertebrate trade</b> <small>2018-9_BL4251_W3</small>
Friday 09-11-2018 09:30 to 10:00	Bute Building Lecture Theatre D	<a href="#">Prof Clare Peddie</a>	Workshop W4: <b>Alexa Krywulak - the negative and positive impacts of recreational SCUBA diving on tropical marine systems</b> <small>2018-9_BL4251_W4</small>
Friday 09-11-2018 10:00 to 10:30	Bute Building Lecture Theatre D	<a href="#">Prof Clare Peddie</a>	Workshop W5: <b>Rowan Stanforth - Coral farming - what is the value?</b> <small>2018-9_BL4251_W5</small>
Friday 09-11-2018 10:30 to 11:00	Bute Building LTD		Workshop W6: <b>Lara Leonard - what value are coral reefs?</b> <small>2018-9_BL4251_W6</small>

## Semester 1: Week 9

DATE & TIME	VENUE	STAFF	EVENT
Friday 16-11-2018 00:00 to 00:00	Bute Building LTD		Workshop W7: <b>Berta Manzano - Global decline in reef ecosystems - is there hope</b> <small>2018-9_BL4251_W7</small>
Friday 16-11-2018 09:00 to 09:30	Bute Building Lecture Theatre D	<a href="#">Prof Clare Peddie</a>	Workshop W8: <b>Mia Ferraiolo - Artificial tropical reefs - what is the value?</b> <small>2018-9_BL4251_W8</small>
Friday 16-11-2018 09:30 to 10:00	Bute Building Lecture Theatre D	<a href="#">Prof Clare Peddie</a>	Workshop W9: <b>Holly Cunningham - the impact of hurricanes on coral reefs</b> <small>2018-9_BL4251_W9</small>
Friday 16-11-2018 10:00 to 10:30	Bute Building Lecture Theatre D	<a href="#">Prof Clare Peddie</a>	Workshop W10: <b>Antonia Kloecker - Sponges - the current and future role in reef ecosystems</b> <small>2018-9_BL4251_W10</small>

## Semester 1: Week 10

DATE & TIME	VENUE	STAFF	EVENT
Friday 23-11-2018 09:00 to 09:30	Bute Building Lecture Theatre D	<a href="#">Prof Clare Peddie</a>	Workshop W11: <b>Austin Morin - Acoustic signalling and displays in tropical marine fish</b> <small>2018-9_BL4251_W11</small>
Friday 23-11-2018 09:30 to 10:00	Bute Building Lecture Theatre D	<a href="#">Prof Clare Peddie</a>	Workshop W12: <b>Hazel Adams - Territoriality in reef fish</b> <small>2018-9_BL4251_W12</small>
Friday 23-11-2018 10:00 to 10:30	Bute Building Lecture Theatre D	<a href="#">Prof Clare Peddie</a>	Workshop W13: <b>Lydia Thompson - Mangroves and sea grass beds as fish nurseries</b> <small>2018-9_BL4251_W13</small>

## Semester 1: Week 11

DATE & TIME	VENUE	STAFF	EVENT
Friday 30-11-2018 00:00 to 00:00	Bute Building LT D	<a href="#">Prof Clare Peddie</a>	Workshop W14: <b>Yasmin Dennis - Anemone and clownfish associations</b> <small>2018-9_BL4251_W14</small>
Friday 30-11-2018 00:00 to 00:00	Bute Building LT D		Workshop W15: <b>Meagan Redmonds - Cleaner fish and shrimp -</b> <small>2018-9_BL4251_W15</small>
Friday 30-11-2018 09:00 to 10:00	Bute Building Lecture Theatre D	<a href="#">Prof Clare Peddie</a>	Workshop W16: <b>Course summary and feedback session</b> <small>2018-9_BL4251_W16</small>

# BL4251: Reading List

[BL4251 Click for BL4251 reading list](#)

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## BL4251: Assessment

Coursework = 100%

### Assessment:

Due by:

Type:

Weight:

### Presentation

Feedback due by:

Turnitin

0%

### Assessment:

Due by:

Feedback due by:

Type:

Weight:

### Presentation Abstract

12/10/2018 09:00

26/10/2018 09:00

Turnitin

25%

### Assessment:

Due by:

Feedback due by:

Type:

Weight:

### Grant application

02/11/2018 09:00

16/11/2018 09:00

Turnitin

60%

### Assessment:

Due by:

Feedback due by:

Type:

Weight:

### Revised grant application

23/11/2018 09:00

07/12/2018 09:00

Turnitin

15%

(MMS assessment data cached: 25 April 2019

23:20:21.)

The following related information applies to all Biology modules:

School of Biology Marking Criteria:

[See School of Biology Undergraduate Handbook](#)

Late submission of continuous assessment work:

All late submissions of coursework that do not require electronic submission should be made via the **late submissions box** in the Biomolecular Science Building (beside the Teaching Office)

Exam details:

[See School of Biology Undergraduate Handbook](#)

Exam timetable:

see <http://www.st-andrews.ac.uk/students/academic/examinations/examtimetable/current/>

Expected attendance:

[See School of Biology Undergraduate Handbook](#) for detailed attendance requirements.

Good Academic Practice & Avoiding Academic Misconduct:

[See School of Biology Undergraduate Handbook](#)

University Student Handbook:

[University Student Handbook](#)

School and University regulations in the School and University Undergraduate Handbook relating to absence reporting, penalties and rules for late submission of work, extensions for coursework, return of coursework, S-coding, good academic practice and Academic Alerts.:

[School of Biology Undergraduate Handbook University Student Handbook](#)

## Who to ask

(Information in this section applies to all Biology Modules)

Questions about different aspects of the module should be directed to different people:

### Questions about

General teaching matters  
Rescheduled or cancelled events  
Lecture or practical content  
Completing assessed practical assignments  
Completing assessments

Marking on continuous assessment

Marking on exams

Rearranging practical days

Absence and/or extensions

Difficulties with academic progress which impact more than one module:

Overall performance, progress or future directions:

Disability:

For advice and support on any issue e.g. academic, financial, international, personal or health matters, or if you are unsure of who to go to for help:

**University assistance with urgent matters out of office hours:**

### Contact

Biology Teaching Office ( [bioteach@st-andrews.ac.uk](mailto:bioteach@st-andrews.ac.uk) )

Check your University email

The lecturer who presented the material

The lecturer who set the assignment

Module Organiser ( [Prof Clare Peddie cmp@st-andrews.ac.uk](mailto:Prof.Clare.Peddie@st-andrews.ac.uk) )

The Demonstrator or Module Organiser ( [Prof Clare Peddie cmp@st-andrews.ac.uk](mailto:Prof.Clare.Peddie@st-andrews.ac.uk) )

Module Organiser ( [Prof Clare Peddie cmp@st-andrews.ac.uk](mailto:Prof.Clare.Peddie@st-andrews.ac.uk) )

[Grant Brown](#)

Module Organiser ( [Prof Clare Peddie cmp@st-andrews.ac.uk](mailto:Prof.Clare.Peddie@st-andrews.ac.uk) ) **and** the Biology Teaching Office ( [bioteach@st-andrews.ac.uk](mailto:bioteach@st-andrews.ac.uk) )

Year Coordinator

See [School of Biology Undergraduate student handbook](#) for list:

<http://biology.st-andrews.ac.uk/documents/UndergraduateHandbook.pdf>

Advisor of Studies

Disability Coordinator ( [Dr Jacqueline Nairn jn37@st-andrews.ac.uk](mailto:Dr.Jacqueline.Nairn@st-andrews.ac.uk) )

Advice & Support Centre

Address: 79 North Street, St Andrews

Email: [theasc@st-andrews.ac.uk](mailto:theasc@st-andrews.ac.uk)

Web: <https://www.standrews.ac.uk/ask-a-question/>

Tel: 01334 462020

Tel: 01334 476161

Web: <https://www.st-andrews.ac.uk/students/advice/counselling/incrisis/>

## Biology Teaching Office:

We are happy to hear from you about teaching matters. The School of Biology Teaching Office is open Monday to Friday 09.00 - 13.00 and 14.00 - 17.00. School of Biology staff will respond to your emails during these hours. Our team will provide a response to you within three working days.

Biology Teaching Office, The Biology Hive, New Technology Centre, University of St Andrews, North Haugh, St Andrews, Fife KY16 9SR

Email: [bioteach@st-andrews.ac.uk](mailto:bioteach@st-andrews.ac.uk)

Tel: 01334 463602/3566

## BL4251: Contributing Staff



**[Prof Clare Peddie](#)**  
(Module Organiser)

Head of School

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**[Prof Clare Peddie](#)**  
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Head of School

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## **BL4251: Learning Outcomes**

Students completing module BL4251 successfully should be able to:

- Explain coral reef, mangrove and seagrass ecology
- Understand the biology and physiology of coral
- Identify the major groups and phyla associated with tropical marine ecosystems
- Explain the nature of the threats to tropical marine habitats
- Discuss current research trends on tropical marine system
- Understand the scientific approaches and techniques used to tackle scientific questions relating to tropical marine biology

# **BL4251: Acquired Skills**

## **Practical Skills**

## **Transferable Skills**

- Long individual presentation on given topic (>15 min)
- Handout (for presentation or poster)
- Research proposal
- Response to comments on proposal
- Critically evaluating sources/information
- Finding literature
- Referencing
- Searching databases
- Sourcing figures/tables
- Ethical considerations
- Peer assessment
- Reflective analysis
- Self assessment
- Designing experiments

# Policies

(Information in this section applies to all Biology Modules)

- The procedures and regulations followed by the School of Biology are outlined in the [University Handbook](#) and in the [School of Biology Undergraduate Handbook](#) (<https://synergy.st-andrews.ac.uk/biocurrentstudent/files/2017/09/UndergraduateHandbook.pdf>).
- All coursework associated with the module must be completed and submitted by its due date.
- Specific School regulations relating to absence reporting, penalties and rules for late submission of work, extensions for coursework, return of coursework, S-coding, Good Academic Practice and Academic Alert are stated in the [School of Biology Undergraduate Handbook](#) and students are required to carefully read these regulations.
- Students are also referred to the University Handbook, available at: <http://www.st-andrews.ac.uk/studenthandbook/>