

BL4260 Biological Oceanography

(BL4260 online module handbook version 31)

Credits: 15

Semester: 2

Module Organiser

Prof Patrick Miller

pm29@st-andrews.ac.uk

01334 463554

Pre-requisite Modules:

BL4260 Pre-Requisite

Anti-requisite Modules:

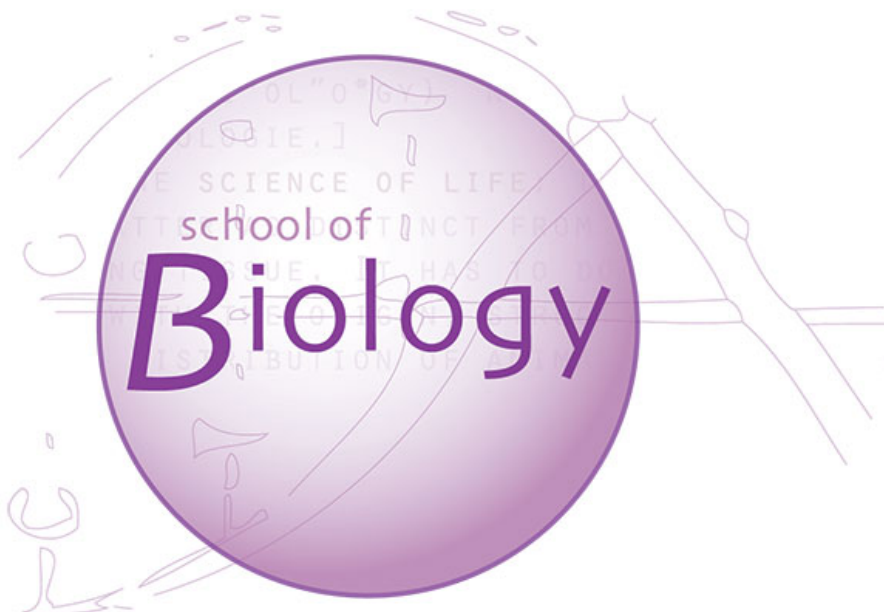
Post-requisite Modules:

Additional Module

Information:

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

This module will provide primarily seminar-based instruction on the fundamentals of Biological Oceanography (BO). A few introductory lectures will focus on basic principles in BO and oceanography, including physical and geochemical principles as they apply to biological oceanography. Students will present seminars on particular focus areas within each lecture topic, based upon reading primary literature. BO is a broad field, so the module will provide an overview of the field with depth in a few chosen areas. At least one practical will be offered on the use of remote-sensing data for ocean observation, and we hope to develop a practical of zooplankton sampling. This module should coordinate especially well with marine acoustics and scientific diving.



[BL4260View content for BL4260 \(2022/3\) in the Module Management System \(MMS\)](#)

[View the current Biology Online Module Catalogue for BL4260](#)

[BL4260View BL4260 \(2022/3\) in the University of St Andrews Module Catalogue](#)

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BL4260: Timetable

Legend (not all modules have every event type):

lecture	tutorial	workshop	practical	other
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Semester 2: Week 1

DATE & TIME	VENUE	STAFF	EVENT
Monday 16-01-2023 10:05 to 10:55	Scottish Oceans Institute SOI Corner Room	Miller -	Lecture L1: Introduction / History of Biological Oceanography 2022-3_BL4260_L1 reading: L&P ch 1
Wednesday 18-01-2023 14:05 to 14:55	Scottish Oceans Institute SOI Corner Room	Miller -	Lecture L2: Spring Bloom I / Physical features of the ocean 2022-3_BL4260_L2 Miller, ch11 (pg 238-245)
Friday 20-01-2023 10:05 to 10:55	Scottish Oceans Institute SOI Corner Room	Miller -	Lecture L3: Phytoplankton: the primary producers 2022-3_BL4260_L3 L&P ch 3, Miller ch 2

Semester 2: Week 2

DATE & TIME	VENUE	STAFF	EVENT
Monday 23-01-2023 14:05 to 14:55	Scottish Oceans Institute SOI Corner Room	Boehme -	Lecture L4: Physical Oceanography 2022-3_BL4260_L4 L&P ch 2
Wednesday 25-01-2023 14:05 to 14:55	Scottish Oceans Institute SOI Corner Room	Miller -	Lecture L5: Determinants of production / Spring Bloom II 2022-3_BL4260_L5 L&P ch 3, Miller ch 3
Friday 27-01-2023 09:05 to 09:55	Online TEAMS	Boehme Miller	Tutorial T1: Q/A for lectures 1-5 2022-3_BL4260_T1 Submit questions by 12 noon on 26 January

Semester 2: Week 3

DATE & TIME	VENUE	STAFF	EVENT
Monday 30-01-2023 14:05 to 14:55	Scottish Oceans Institute SOI Corner Room	Miller -	Lecture L6: Zooplankton I: the animals and energy flows 2022-3_BL4260_L6 L&P chs 4, 5.1-5.3
Wednesday 01-02-2023 14:05 to 14:55	Scottish Oceans Institute SOI Corner Room	Miller -	Lecture L7: The Microbial Loop 2022-3_BL4260_L7 Miller ch 5
Friday 03-02-2023 10:05 to 10:55	Scottish Oceans Institute SOI Lecture Theatre	Miller -	Lecture L8: Benthic & Mid-water life in the oceans 2022-3_BL4260_L8 L&P ch 7; L&P ch 8.8, Miller ch 12

Semester 2: Week 4

DATE & TIME	VENUE	STAFF	EVENT
Monday 06-02-2023 14:05 to 14:55	Online TEAMS	Miller -	Tutorial T2: Q/A for lectures 6-8 2022-3_BL4260_T2 submit questions by 17:00 on 5 February
Wednesday 08-02-2023 14:05 to 14:55	Scottish Oceans Institute SOI Corner Room	Miller -	Lecture L9: Marine Nekton: from larval fish to whales 2022-3_BL4260_L9 L&P ch 6
Friday 10-02-2023 10:05 to 10:55	Scottish Oceans Institute SOI Lecture Theatre	Miller -	Lecture L10: Marine Nekton 2: Fisheries Oceanography 2022-3_BL4260_L10 L & P ch 6.7

Semester 2: Week 5

DATE & TIME	VENUE	STAFF	EVENT
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Monday 13-02-2023 14:05 to 14:55	Scottish Oceans Institute SOI Corner Room	Miller -	Lecture L11: The Carbon Cycle in changing climates 2022-3_BL4260_L11 Miller ch 16
Wednesday 15-02-2023 11:05 to 11:55	Online TEAMS	Miller -	Tutorial T3: Q/A session for lectures 9-11 2022-3_BL4260_T3 submit questions by 16:00 on 14 February

Spring Break: 27-Feb-2023 to 03-Mar-2023

Semester 2: Week 7

DATE & TIME	VENUE	STAFF	EVENT
Monday 06-03-2023 14:05 to 16:55	Scottish Oceans Institute SOI Lecture Theatre	Miller Boehme	Other O1: student presentations 2022-3_BL4260_O1 presentations 1-5
Tuesday 07-03-2023 14:05 to 16:55	Scottish Oceans Institute SOI Lecture Theatre	Miller Boehme	Other O2: Student presentations 2022-3_BL4260_O2 remaining presentations

BL4260: Reading List

[BL4260Click for BL4260 reading list](#)

BL4260: Assessment

2-hour Written Examination = 40%, Coursework = 60%

[BL4260View coursework assessment details for BL4260 \(2022/3\) in MMS](#)

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 Biology Teaching Office, Level 2, BMS Building, North Haugh.
Exam details:	See School of Biology Undergraduate Handbook ;All Biology exams will be conducted online for 2022-23.
Exam timetable:	see http://www.st-andrews.ac.uk/students/academic/examinations/examtimetables/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)

Before contacting staff, students should check the content of the Biology Undergraduate Handbook, the module handbook and specific task instructions.

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)

Check your University email

The lecturer who presented the material

The lecturer who set the assignment

Module Organiser (Prof Patrick Miller pm29@st-andrews.ac.uk)

The Demonstrator or Module Organiser (Prof Patrick Miller pm29@st-andrews.ac.uk)

Module Organiser (Prof Patrick Miller pm29@st-andrews.ac.uk)

[Dr Susan Gurney](#)

Module Organiser (Prof Patrick Miller pm29@st-andrews.ac.uk)

and the Biology Teaching Office (bioteach@st-andrews.ac.uk)

Year Coordinator

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

<https://biology.st-andrews.ac.uk/students/wp-content/uploads/sites/6/2022/08/Undergraduate-Handbook-2022-23-New-version.pdf>

Advisor of Studies

Disability Coordinator (Dr Jacqueline Nairn jn37@st-andrews.ac.uk)

Advice & Support Centre

Address: 79 North Street, St Andrews

Email: 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 (Level 2), University of St Andrews, Biomolecular Sciences Building, North Haugh, St Andrews, Fife KY16 9ST

Email: bioteach@st-andrews.ac.uk

Tel: 01334 46 3602 or 3566

BL4260: Contributing Staff

BL4260: Learning Outcomes

Students completing module BL4260 successfully should be able to:

- This module aims to provide a focused introduction to the broad field of Biological Oceanography, integrating and synthesizing some material presented in JH modules.
- Three weeks of lectures are linked strongly to reading material in two textbooks on Biological Oceanography which are available for loan from the library.

BL4260: Acquired Skills

Practical Skills

Transferable Skills

- Group discussion - participating
- Long individual presentation on given topic (>15 min)
- Review article on given topic

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://biology.st-andrews.ac.uk/students/wp-content/uploads/sites/6/2022/08/Undergraduate-Handbook-2022-23-New-version.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/>