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BL3323 Terrestrial Zoology

(BL3323 online module handbook version 84)

Credits: 20

Semester: 1

Module Organiser

Dr Michael Morrissey mbm5@st-andrews.ac.uk 01334 463738

Pre-requisite Modules:

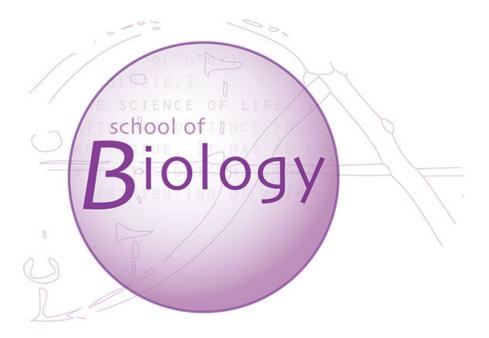
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Anti-requisite Modules:

Post-requisite Modules:

Additional Module Information:

for additional module information



Please check MMS regularly This module covers the biology of land animals, including their early evolution, their strategies to cope with unusual terrestrial habitats (extremes of hot, arid and cold, urban life, island life, etc, including climate change effects), and their special problems with reproduction and locomotion. It then looks at insights gained from modern techniques, including molecular, bioinformatics and bar-coding approaches, bio-logging and tracking, and developmental adaptations. It concludes with special topics on particular animals or groups that have improved our understanding of terrestrial peculiarities, whether behavioural, sensory, physiological, mechanical, metabolic or ecological; and of threats to terrestrial diversity for certain groups.

BL3323View content for BL3323 (2022/3) in the Module Management System (MMS)

View the current Biology Online Module Catalogue for BL3323

BL3323View BL3323 (2022/3) in the University of St Andrews Module Catalogue

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BL3323: Timetable

Legend (not all modules have every event type):			
lecture	tutorial workshop	practical other	
Semester :	l: Week 1		
DATE & TIME	VENUE	STAFF	EVENT
Monday 12-09-2022 09:00 to 10:00	Psychology, St Mary's College Old Library	<u>Dr Michael Morrissey</u> -	Lecture L1: Introduction to the course, models of populations 2022-3_BL3323_L1
Wednesday 14-09-2022 09:00 to 10:00	Biomolecular Sciences Building Biology New Hive	<u>Dr Michael Morrissey</u> -	Other O1: Drop-in session to support self- study of practical materials
Thursday 15-09-2022 09:00 to 11:00	Biomolecular Sciences Building Biology NewHive	Dr Michael Morrissey	Other O2: Drop-in session to support self- study of practical materials
Semester :	L: Week 2		
DATE & TIME	VENUE	STAFF	EVENT
Monday 19-09-2022 09:00 to 10:00	Psychology, St Mary's College Old Library	<u>Dr Michael Morrissey</u>	Lecture L2: Births and deaths 2022-3_BL3323_L2
Tuesday 20-09-2022 09:00 to 10:00	Biomedical Sciences Building Biology New Hive	<u>Dr Michael Morrissey</u>	Other O3: Drop-in session to support self- study of practical materials
Wednesday 21-09-2022 09:00 to 10:00	Biomedical Sciences Building Biology NewHive	<u>Dr Michael Morrissey</u>	Other O4: Drop-in session to support self- study of practical materials
Semester :	L: Week 3		
DATE & TIME	VENUE	STAFF	EVENT
Monday 26-09-2022 09:00 to 10:00	Psychology, St Mary's College Old Library	<u>Dr Michael Morrissey</u>	Lecture L3: Births and deaths and population growth/decline 2022-3_BL3323_L3
Tuesday 27-09-2022 09:00 to 10:00	Biomedical Sciences Building Biology New Hive	<u>Dr Michael Morrissey</u>	Other O5: Drop-in session to support self- study of practical materials
Wednesday 28-09-2022 09:00 to 10:00	Biomedical Sciences Building Biology New Hive	<u>Dr Michael Morrissey</u>	Other O6: Drop-in session to support self- study of practical materials
Semester :	L: Week 4		
DATE & TIME	VENUE	STAFF	EVENT
Monday 03-10-2022 09:00 to 10:00	Psychology, St Mary's College Old Library	Prof Graeme Ruxton	Lecture L4: Island ecosystems 1 2022-3_BL3323_L4
Tuesday 04-10-2022 09:00 to 10:00	St Mary's College T205	Prof Graeme Ruxton	Lecture L5: Island ecosystems 2 2022-3_BL3323_L5
Wednesday 05-10-2022 09:00 to 10:00	Psychology, St Mary's College Old Library	Prof Graeme Ruxton	Workshop W1: Conservation culturomics 2022-3_BL3323_W1 Formulating a good research question
Semester :	L: Week 5		
DATE & TIME	VENUE	STAFF	EVENT
Monday 10-10-2022 09:00 to 10:00	Psychology, St Mary's College Old Library	Prof Graeme Ruxton	Lecture L6: Desert ecosystems 1 2022-3_BL3323_L6
Tuesday 11-10-2022 09:00 to 10:00	St Mary's College T205	Prof Graeme Ruxton	Lecture L7: Desert ecosystems 2 2022-3_BL3323_L7

Wednesday 12-10-2022	Psychology, St Mary's College Old Library	Prof Graeme Ruxton	Workshop W2: Conservation culturomics 2022-3_BL3323_W2
09:00 to 10:00	0.u <u>1</u> .u.,		Design of a data-collection protocol
Semester :	1: Week 7		
DATE & TIME	VENUE	STAFF	EVENT
Monday 24-10-2022 09:00 to 10:00	Psychology, St Mary's College Old Library	Prof Graeme Ruxton	Lecture L8: Polar ecosystems 1 2022-3_BL3323_L8
Tuesday 25-10-2022 09:00 to 10:00	St Mary's College T205	Prof Graeme Ruxton	Lecture L9: Polar ecosystems 2 2022-3_BL3323_L9
Wednesday 26-10-2022 09:00 to 10:00	Psychology, St Mary's College Old Library	Prof Graeme Ruxton -	Workshop W3: Conservation culturomics 2022-3_BL3323_W3 Data Analysis
Semester :	1: Week 8		
DATE & TIME	VENUE	STAFF	EVENT
Monday 31-10-2022 09:00 to 10:00	Psychology, St Mary's College Old Library	Prof Graeme Ruxton -	Lecture L10: Subterranean ecosystems 2022-3_BL3323_L10
Tuesday 01-11-2022 09:00 to 10:00	St Mary's College T205	Prof Graeme Ruxton -	Lecture L11: Montane ecosystems 2022-3_BL3323_L11
Wednesday	Psychology, St Mary's College	Prof Graeme Ruxton	Workshop W4: Conservation culturomics
02-11-2022 09:00 to 10:00	Old Library		Critical evaluation of the strengths of limitations of your study
Semester :	1: Week 9		
DATE & TIME	VENUE	STAFF	EVENT
Monday 07-11-2022 09:00 to 10:00	Psychology, St Mary's College Old Library	<u>Dr Marcus Bischoff</u> -	Lecture L12: Developmental biology and genetics of adaptation 2022-3_BL3323_L12
Tuesday 08-11-2022 09:00 to 10:00	St Mary's College T205	Dr Verena Dietrich-Bischoff -	Lecture L13: bees 2022-3_BL3323_L13
Wednesday 19-11-2022 19:00 to 10:00	Psychology, St Mary's College Old Library	Dr Verena Dietrich-Bischoff -	Lecture L14: Aspects of amphibians and their decline 2022-3_BL3323_L14
Semester :	1: Week 10		
DATE & TIME	VENUE	STAFF	EVENT
Monday 14-11-2022 09:00 to 10:00	Psychology, St Mary's College Old Library	<u>Dr Verena Dietrich-Bischoff</u> -	Lecture L15: The weird naked mole rats 2022-3_BL3323_L15
Tuesday 15-11-2022 09:00 to 10:00	St Mary's College T205	-	Lecture L16: TBD 2022-3_BL3323_L16
Semester :	1: Week 11		
DATE & TIME	VENUE	STAFF	EVENT
Monday 21-11-2022 09:00 to 10:00	Psychology, St Mary's College Old Library	Prof Graeme Ruxton	Lecture L17: Zebra stripes: how modern research is conducted 2022-3_BL3323_L17
Tuesday 22-11-2022 09:00 to 10:00	St Mary's College T205	Dr V Anne Smith	Lecture L18: Avian reproduction 1 2022-3_BL3323_L18
Wednesday 23-11-2022 09:00 to 10:00	Psychology, St Mary's College Old Library	Dr V Anne Smith	Lecture L19: Avian reproduction 2 2022-3_BL3323_L19

BL3323: Reading List

BL3323Click for BL3323 reading list

BL3323: Assessment

3-hour Written Examination = 50%, Coursework = 50%

BL3323View coursework assessment details for BL3323 (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: <u>See School of Biology Undergraduate Handbook</u>; All Biology exams will be

conducted online for 2022-23.

Exam timetable: se

http://www.st-andrews.ac.uk/students/academic/examinations/examtimetab

lescurrent/

Expected attendance: See School of Biology Undergraduate Handbook for detailed attendance

requirements.

Good Academic Practice & Avoiding Academic

Misconduct:

University Student Handbook:

<u>University Student Handbook</u> School of Biology Undergraduate Handbook

See School of Biology Undergraduate 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.:

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.

Check your University email

The lecturer who presented the material

The lecturer who set the assignment

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:

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:

Advice & Support Centre Address: 79 North Street, St Andrews Email: theasc@st-andrews.ac.uk

University assistance with urgent matters out of office hours:

Module Organiser (Dr Michael Morrissey mbm5@st-andrews.ac.uk)

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

The Demonstrator or Module Organiser (<u>Dr Michael Morrissey mbm5@st-andrews.ac.uk</u>)

Module Organiser (<u>Dr Michael Morrissey</u> <u>mbm5@st-andrews.ac.uk</u>)

 $\label{thm:module organiser} \begin{tabular}{ll} Module Organiser (\underline{Dr} Michael Morrissey mbm5@st-andrews.ac.uk) and the Biology Teaching Office ($\underline{bioteach@st-andrews.ac.uk}$) \end{tabular}$

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 (<u>Dr Jacqueline Nairn</u> jn37@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

BL3323: Contributing Staff



Dr Michael Morrissey (Module Organiser)

Research Fellow

mbm5@st-andrews.ac.uk



Dr Marcus Bischoff

Lecturer

mb273@st-andrews.ac.uk



Dr Verena Dietrich-Bischoff

Lecturer (Education-Focused) vdb@st-andrews.ac.uk



Dr Michael Morrissey (Module Organiser)

Research Fellow

mbm5@st-andrews.ac.uk



Prof Graeme Ruxton

Professor

gr41@st-andrews.ac.uk



Dr V Anne Smith

Senior Lecturer

vas1@st-andrews.ac.uk

BL3323: Learning Outcomes

The module objectives are to develop knowledge and understanding of:+ the timing and patterns of the evolution of animal life on land;+ key adaptations of terrestrial animals, for (among other things) feeding, reproduction, and gathering sensory information; gathering;+ animal specialisations in particularly challenging terrestrial habitats;+ how cutting-edge methods -- such as molecular and genomic techniques, and animal tracking technologies -- are changing our understanding of terrestrial zoology;+ key aspects of the importance of animals in terrestrial ecosystems;+ how zoology matters in our approach to studying behaviour, ecology and evolution.

Students completing module BL3323 successfully should be able to:

- + an understanding of all of the above objectives;
- + improved ability to search for, understand, and precis evidence reported in the primary literature;
- + an appreciation of the importance of animal function and adaptation in terrestrial ecology and evolution.

BL3323: Acquired Skills

Practical Skills

- Species identification (Invertebrates)
- Using dichotomous keys

Transferable Skills

- Long group presentation on given topic (>15 min)
- Critically evaluating sources/information
- Finding literature
- Data analysis (depending on project)
- Working in pairs/small groups

Policies

(Information in this section applies to all Biology Modules)

- The procedures and regulations followed by the School of Biology are outlined in the <u>University Handbook</u> and in the <u>School of Biology Undergraduate Handbook</u> (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/