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BL4274 Evolutionary Developmental Biology

(BL4274 online module handbook version 17)

Credits: 15

Semester: 1

Module Organiser

Prof Dave Ferrier dekf@st-andrews.ac.uk 01334 463480

Pre-requisite Modules:

Permission of Biology Honours Adviser required

Anti-requisite Modules:

Post-requisite Modules:

Additional Module Information:

<u>Please check MMS regularly</u> <u>for additional module</u> <u>information</u>

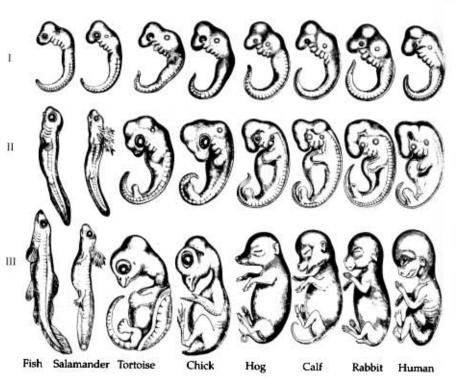


image: Ernst Haeckel\'s phylotypic stage

Evolution of new morphologies involves changes to the development of organisms. The field of evolutionary developmental biology is thus established as a major and essential component of any comprehensive understanding of evolutionary biology. This module aims to cover some of the main, current themes in evolutionary developmental biology.

BL4274View content for BL4274 (2023/4) in the Module Management System (MMS)

View the current Biology Online Module Catalogue for BL4274

BL4274View BL4274 (2023/4) in the University of St Andrews Module Catalogue

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BL4274: Timetable

DATE & TIME VENUE

Legend (not	all modules have every	event type):		
lecture	tutorial workshop	practical other		
Semester	1: Week 1			
DATE & TIME	VENUE	STAFF	EVENT	
Monday 11-09-2023 15:00 to 17:00	Scottish Oceans Institute SOI corner seminar room	Prof Dave Ferrier -	Lecture L1: Module introduction and Animal Phylogeny lecture 2023-4_BL4274_L1	
Semester	1: Week 2			
DATE & TIME	VENUE	STAFF	EVENT	
Monday 18-09-2023 15:00 to 17:00	Scottish Oceans Institute SOI corner seminar room	<u>Dr Carmel McDougall</u> -	Tutorial T1: Topic 1 - student-led class discussion	
			See handbook on Moodle for further details.	
Semester	1: Week 3			
DATE & TIME	VENUE	STAFF	EVENT	
Monday 25-09-2023 15:00 to 17:00	Scottish Oceans Institute SOI corner seminar room	Prof Dave Ferrier	Tutorial T2: Discussion of a formative <pre>piece of writing, and a review of common techniques in Evo-Devo</pre>	
			See handbook on Moodle for further details.	
Semester	1: Week 4			
DATE & TIME	VENUE	STAFF	EVENT	
Monday 02-10-2023	Scottish Oceans Institute SOI corner seminar room	Prof Dave Ferrier	Tutorial T3: Topic 2 - student-led class discussion	
15:00 to 17:00			See handbook on Moodle for further details.	
Semester	1: Week 5			
DATE & TIME	VENUE	STAFF	EVENT	
Monday 09-10-2023 15:00 to 17:00	Scottish Oceans Institute SOI corner seminar room	Prof Dave Ferrier	Tutorial T4: Topic 3 - Feedback class on practise essay.	
13.00 to 17.00			See handbook on Moodle for further details.	
Semester	1: Week 7			
DATE & TIME	VENUE	STAFF	EVENT	
Tuesday 24-10-2023 15:00 to 17:00	Scottish Oceans Institute SOI corner seminar room	Prof Dave Ferrier Dr Marcus Bischoff	Tutorial T5: Assessed Fellowship proposal presentations and discussion.	
			See handbook on Moodle for further details.	
Semester	1: Week 8			
DATE & TIME	VENUE	STAFF	EVENT	
Monday 30-10-2023 15:00 to 17:00	Scottish Oceans Institute SOI corner seminar room	Prof Dave Ferrier	Tutorial T6: Paper critique class 2022 de	
Semester	1: Week 9			
DATE & TIME	VENUE	STAFF	EVENT	
Monday 06-11-2023	Scottish Oceans Institute SOI corner seminar room	Prof Dave Ferrier	Tutorial T7: Assessed essay preparation class.	
15:00 to 17:00			See handbook on Moodle for further details.	
Semester 1: Week 10				

STAFF

EVENT

Monday 13-11-2023 15:00 to 17:00	Scottish Oceans Institute SOI corner seminar room	Prof Dave Ferrier	Other 01: Debate MANA MANA ON See handbook on Moodle for further details.		
Semester 1: Week 11					
DATE & TIME	VENUE	STAFF	EVENT		
Monday 20-11-2023 15:00 to 17:00	Scottish Oceans Institute SOI corner seminar room	Prof Dave Ferrier	Other O2: Feedback class and module review		

BL4274: Reading List

BL4274Click for BL4274 reading list

BL4274: Assessment

Coursework = 100%

BL4274View coursework assessment details for BL4274 (2023/4) in MMS

The following related information applies to all Biology modules:

School of Biology Marking Criteria: See JH booklet info (st-andrews.ac.uk)Â

Late submission of continuous All late submissions of coursework that do not require assessment work:

electronic submission should be made via the Biology Teaching Office, Level 2, BMS Building, North Haugh.

Exam details: See School of Biology UG Handbook IH booklet info (st-

andrews.ac.uk)Â: All Biology exams will be conducted

online for 2022-23.

See Timetables - Exams - University of St Andrews (st-Exam timetable:

andrews.ac.uk)Â

See JH booklet info (st-andrews.ac.uk) Â for detailed Expected attendance:

attendance requirements.

See JH booklet info (st-andrews.ac.uk)

Good Academic Practice & Avoiding

Academic Misconduct:

University Student Handbook: **University Student Handbook**

School and University regulations in the <u>IH booklet info (st-andrews.ac.uk)</u>

School and University Undergraduate **University Student Handbook**

Handbook relating to absence

reporting, penalties and rules for late submission of work, extensions for coursework, return of coursework, Scoding, good academic practice and

Academic Alerts.:

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	Contact	
General teaching matters	Biology Teaching Office (<u>bioteach@st-andrews.ac.uk</u>)	
Rescheduled or cancelled events	Check your University email	
Lecture or practical content	The lecturer who presented the material	
Completing assessed practical assignments	The lecturer who set the assignment	
Completing assessments	Module Organiser (<u>Prof Dave Ferrier</u> <u>dekf@st-andrews.ac.uk</u>)	
Marking on continuous assessment	The Demonstrator or Module Organiser (Prof Dave Ferrier dekf@st-andrews.ac.uk)	
Marking on exams	Module Organiser (<u>Prof Dave Ferrier</u> <u>dekf@st-andrews.ac.uk</u>)	
Rearranging practical days	Module Organiser (Prof Dave Ferrier dekf@st-andrews.ac.uk)	
Absence and/or extensions	Module Organiser (Prof Dave Ferrier dekf@st-andrews.ac.uk) and the Biology Teaching Office (bioteach@st-andrews.ac.uk)	
Difficulties with academic progress which impact more than one module:	Year Coordinator See School of Biology UG Handbook for list: JH booklet info (st-andrews.ac.uk)	
Overall performance, progress or future directions:	Advisor of Studies	
Disability:	Disability Coordinator (biodisabilities@st-andrews.ac.uk)	
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 Web: https://www.standrews.ac.uk/ask-a-question/ Tel: 01334 462020	
University assistance with urgent matters out of office hours:	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

BL4274: Contributing Staff

Prof Dave Ferrier (Module Organiser)

Dr Marcus Bischoff

Prof Dave Ferrier
(Module Organiser)

Dr Carmel McDougall

Reader in Biology and Deputy Director of the Scottish Oceans

Institute

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BL4274: Learning Outcomes

Students completing module BL4274 successfully should be able to:

- Communicate a deep and balanced appreciation of the evolutionary developmental biology questions and controversies being considered, both verbally and in writing.
- Find up-to-date, relevant primary research literature that is critically evaluated.
- Exhibit verbal communication skills that demonstrate the ability to distil a synthesis of research on a topic into a short verbal presentation supported with visual aids.
- Conduct a verbal discussion to develop the understanding of the entire group and incorporate views and information provided by all group members.
- Develop questions about a topic in evolutionary developmental biology that improves the understanding of both the questioner and the group.
- Clearly articulate a critical evaluation of chosen topics in evolutionary developmental biology via essay writing.

BL4274: Acquired Skills

Practical Skills

Transferable Skills

- Group discussion leading
- Group discussion participating
- Journal club
- Long individual presentation on given topic (>15 min)
- Short individual presentation on given topic (up to 15 min)
- Short individual presentation on project idea (up to 15 min)
- Long essay (>2000 words)
- Research proposal
- Critically evaluating sources/information
- Finding literature
- Referencing
- Sourcing figures/tables
- Generating questions
- Peer assessment
- Critiquing experimental design
- 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 <u>University</u> <u>Handbook</u> and in the School of Biology UG handbook Â <u>JH booklet info (st-andrews.ac.uk)Â</u>
- 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 UG hand book JH booklet info (standrews.ac.uk)Â Â 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/