

BL4210 Module Handbook: page 1

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BL4210: 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
Monday 11-09-2023 14:00 to 15:00	Medical and Biological Sciences Building 103 Seminar Room 1	Dr Michael M Nevels -	Lecture L1: Introduction to Module Mutagenesis & qPCR Pre-plan Advice 2023-4_BL4210_L1
Thursday 14-09-2023 14:00 to 17:00	Biomolecular Sciences Building 205a/b Teaching Lab	Dr Simon Young -	Practical P1: Bioinformatics Practical I 2023-4_BL4210_P1
Friday 15-09-2023 14:00 to 17:00	Biomolecular Sciences Building 205a/b Teaching Lab	Dr Simon Young -	Practical P2: Bioinformatics Practical II 2023-4_BL4210_P2

Semester 1: Week 4

DATE & TIME	VENUE	STAFF	EVENT
Monday 02-10-2023 14:00 to 15:00	Biomolecular Sciences Building RM001 Seminar Room	Dr Michael M Nevels -	Lecture L2: Mutagenesis & qPCR Pre-plan Discussion Practical Advice 2023-4_BL4210_L2
Tuesday 03-10-2023 10:00 to 17:00	Biomolecular Sciences Building 205b Teaching Lab	Dr Michael M Nevels -	Practical P3: Mutagenesis & qPCR Practical 2023-4_BL4210_P3
Thursday 05-10-2023 10:00 to 13:00	Biomolecular Sciences Building 205a/b Teaching Lab	Dr Michael M Nevels -	Practical P4: Mutagenesis & qPCR Practical 2023-4_BL4210_P4
Friday 06-10-2023 14:00 to 16:00	Medical and Biological Sciences Building 103 Seminar Room 1	Jason Corbett Miss InÃs Ferreira	Tutorial T1: Mutagenesis & qPCR Class Data Collation Data Analysis Advice 2023-4_BL4210_T1

Semester 1: Week 5

DATE & TIME	VENUE	STAFF	EVENT
Friday 13-10-2023 14:00 to 15:00	Biomolecular Sciences Building RM001 Seminar Room	Dr Michael M Nevels -	Lecture L3: Cell Transfection Pre-plan Advice 2023-4_BL4210_L3

Semester 1: Week 9

DATE & TIME	VENUE	STAFF	EVENT
Monday 06-11-2023 14:00 to 15:00	Biomolecular Sciences Building RM001 Seminar Room	Dr Michael M Nevels -	Lecture L4: Cell Transfection Pre-plan Discussion Practical Advice 2023-4_BL4210_L4
Tuesday 07-11-2023 10:00 to 13:00	Biomolecular Sciences Building 205a/b Teaching Lab	Dr Michael M Nevels -	Practical P5: Cell Transfection Practical 2023-4_BL4210_P5
Thursday 09-11-2023 10:00 to 17:00	Biomolecular Sciences Building 205a/b Teaching Lab	Dr Michael M Nevels -	Practical P6: Cell Transfection Practical 2023-4_BL4210_P6
Friday 10-11-2023 14:00 to 16:00	Biomolecular Sciences Building RM001 Seminar Room	Jason Corbett Miss InÃs Ferreira	Tutorial T2: Cell Transfection Class Data Collation Data Analysis Advice 2023-4_BL4210_T2

BL4210: Reading List

[BL4210Click for BL4210 reading list](#)

BL4210: Assessment

Coursework = 100%

[BL4210View coursework assessment details for BL4210 \(2023/4\) in MMS](#)

The following related information applies to all Biology modules:

School of Biology Marking Criteria:	See JH booklet info (st-andrews.ac.uk)
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 UG Handbook JH booklet info (st-andrews.ac.uk) : All Biology exams will be conducted online for 2022-23.
Exam timetable:	See Timetables - Exams - University of St Andrews (st-andrews.ac.uk)
Expected attendance:	See JH booklet info (st-andrews.ac.uk) for detailed attendance requirements.
Good Academic Practice & Avoiding Academic Misconduct:	See JH booklet info (st-andrews.ac.uk)
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.:	JH booklet info (st-andrews.ac.uk) 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 (Dr Michael M Nevels mmn3@st-andrews.ac.uk)
The Demonstrator or Module Organiser (Dr Michael M Nevels mmn3@st-andrews.ac.uk)
Module Organiser (Dr Michael M Nevels mmn3@st-andrews.ac.uk)
Module Organiser (Dr Michael M Nevels mmn3@st-andrews.ac.uk)
Module Organiser (Dr Michael M Nevels mmn3@st-andrews.ac.uk)
and the Biology Teaching Office (bioteach@st-andrews.ac.uk)
Year Coordinator
See School of Biology UG Handbook for list: [JH booklet info \(st-andrews.ac.uk\)](http://www.st-andrews.ac.uk/jh-booklet-info)
Advisor of Studies

Disability Coordinator (biodisabilities@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

BL4210: Contributing Staff

Dr Michael M Nevels
(Module Organiser)

Reader in Virology

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Jason Corbett

Postgraduate Student

jwc7@st-andrews.ac.uk

Miss In s Ferreira

Postgraduate Student

iaf1@st-andrews.ac.uk

Dr Michael M Nevels
(Module Organiser)

Reader in Virology

mmn3@st-andrews.ac.uk

Dr Simon Young

Associate Lecturer (Education
focused)

say2@st-andrews.ac.uk

BL4210: Learning Outcomes

Students completing module BL4210 successfully should be able to:

- Probe databases for relevant information and use bioinformatics tools in biochemistry and molecular biology research projects
- Design experimental protocols, incorporate appropriate negative/positive experimental controls and anticipate likely experimental outcomes
- Carry out key modern biochemistry and molecular biology experiments and create clear and complete research records
- Analyse and interpret experimental data, compare results and draw valid conclusions
- Write clear and logical scientific prose

BL4210: Acquired Skills

Practical Skills

- Biomolecule isolation/characterisation
- Buffers
- Database interrogation
- DNA isolation
- Enzyme assay
- Handling mammalian cells
- Handling microbes
- Image analysis
- Image processing
- Pipetting
- Polymerase Chain Reaction (PCR)
- Protein quantitation
- Transformation

Transferable Skills

- "Full" practical write-up (Intro, Methods, Results, Discussion)
- Critically evaluating sources/information
- Finding information on the web
- Referencing
- Searching databases
- Lab safety awareness
- Reflective analysis
- Calculations/equations
- Concentrations
- Data analysis
- Data analysis (depending on project)
- Data presentation
- Descriptive statistics
- Dilutions
- Distinguish different types of data
- Draw a line of best fit
- Linear regression
- Produce graphs/figures
- Produce tables
- SI units
- Use Excel
- Volumes
- Lab or field notebook
- Designing experiments
- Generate class dataset
- 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 [University Handbook](#) and in the School of Biology UG handbook [JH booklet info \(st-andrews.ac.uk\)](#)
- 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 handbook [JH booklet info \(st-andrews.ac.uk\)](#) 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/>