

BS240-24 Biochemistry Laboratories

20/21

Department

Life Sciences

Level

Undergraduate Level 2

Module leader

Robert Spooner

Credit value

24

Module duration

8 weeks

Assessment

100% coursework

Study location

University of Warwick main campus, Coventry

Description

Introductory description

BS240-24 Biochemistry Laboratories

Module aims

This module aims to increase the practical laboratory skills, data handling, and problem-solving skills of Biochemistry students and to reinforce the need to use Good Laboratory Practice. It covers core labs taken by all students (bioinformatics and molecular cell biology) and labs specific for Biochemistry students (Protein Biochemistry, Tools for Biochemistry and Signalling and Integration). The core labs introduce students to the techniques of PCR and cloning, and to sequence –handling i.e. from clone to genome. The specific labs are strongly linked to lecture modules, with the aim of co-ordinating theory with practical skills.

Outline syllabus

This is an indicative module outline only to give an indication of the sort of topics that may be covered. Actual sessions held may differ.

Laboratories covering:

Bioinformatics

Molecular Biology

Tools for Biochemistry
Protein Biochemistry
Signalling and Integration

Learning outcomes

By the end of the module, students should be able to:

- Improving laboratory, data-handling and problem-solving skills. See section 22 for detail

Subject specific skills

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Transferable skills

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Study

Study time

Type	Required
Practical classes	14 sessions of 1 hour (6%)
Fieldwork	5 sessions of 1 hour (2%)
Private study	221 hours (92%)
Total	240 hours

Private study description

No private study requirements defined for this module.

Costs

No further costs have been identified for this module.

Assessment

You do not need to pass all assessment components to pass the module.

Assessment group A2

	Weighting	Study time
Labs	100%	
Laboratory reports and in-lab assessments.		
Oral presentations and data handling		

Feedback on assessment

Group feedback via Moodle and individual feedback on reports\r\n\r\n

Availability

Courses

This module is Core for:

- Year 2 of UBSA-C700 Undergraduate Biochemistry
- ULFA-C1A2 Undergraduate Biochemistry (MBio)
 - Year 2 of C1A2 Biochemistry
 - Year 2 of C700 Biochemistry
- Year 2 of UBSA-C701 Undergraduate Biochemistry (with Intercalated Year)
- Year 2 of ULFA-C1A6 Undergraduate Biochemistry with Industrial Placement (MBio)