

# BS356-15 Laboratories and Assessments for Biochemistry

21/22

**Department**

Life Sciences

**Level**

Undergraduate Level 3

**Module leader**

Daniel Franklin

**Credit value**

15

**Module duration**

30 weeks

**Assessment**

Multiple

**Study location**

University of Warwick main campus, Coventry

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## Description

### Introductory description

Subject specific laboratory classes and a small group tutorial programme.

### Module aims

To complete the development of students' research and transferrable skills through a program of laboratory and tutorial activities (continuation of programs in Years 1 and 2).

### 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.

Students will complete the third year of a laboratory and tutorial-based skills program. The key aims of the year 3 program are to embed final year level literature and practical research skills. This will be achieved through a combination of tutorial set tasks, some of which are formative, some summatively assessed, and laboratory classes.

## Learning outcomes

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

- Students should be able to critically analyse data produced in the laboratory or during field work
- Students should be able to critically analyse the primary research literature
- Students should be able to design experiments
- Students should be able to navigate ethical approval

## Subject specific skills

- a. Demonstrate clear understanding of the scientific topic
- b. Contain evidence of extended reading and lateral integration of material not covered in the lectures
- c. Demonstrate independent thought and deep understanding
- d. Specifically answer the set question using information from multiple lectures and sources
- e. Be structured and formatted in a way that demonstrates understanding and logical flow
- f. Use multiple sources to construct complex scientific arguments and integrating these to build and develop the student's own scientific conclusions.

## Transferable skills

1. Critical appraisal of source material
  2. Self directed learning
  3. Adult learning
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## Study

### Study time

Type	Required
Tutorials	12 sessions of 1 hour (8%)
Practical classes	50 sessions of 1 hour (33%)
Private study	88 hours (59%)
Total	150 hours

### Private study description

Labs - data analysis and report writing.

Tutorials - preparation of material for each contact session, and assessment reports.

## Costs

No further costs have been identified for this module.

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## Assessment

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

### Assessment group A

	<b>Weighting</b>	<b>Study time</b>	<b>Eligible for self-certification</b>
Structural Biology lab report Submission of lab report	40%		Yes (extension)
Dynamics lab report 1 Submission of lab report	10%		Yes (extension)
Dynamics lab report 2 Submission of lab report	10%		Yes (extension)
Dynamics lab report 3 Submission of lab report	20%		Yes (extension)
Experimental design 1 Deconstruction or rejected paper	10%		Yes (extension)
Experimental design 2 Analysis of research paper with ethical approval submission	10%		Yes (extension)

### Assessment group R

	<b>Weighting</b>	<b>Study time</b>	<b>Eligible for self-certification</b>
TBC	100%		No

### Feedback on assessment

Written individual feedback

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## Availability

## Courses

This module is Core for:

- Year 3 of UBSA-C700 Undergraduate Biochemistry
- ULFA-C1A2 Undergraduate Biochemistry (MBio)
  - Year 3 of C1A2 Biochemistry
  - Year 3 of C700 Biochemistry
- Year 4 of ULFA-C702 Undergraduate Biochemistry (with Placement Year)
- Year 3 of ULFA-C1A6 Undergraduate Biochemistry with Industrial Placement (MBio)