

# BS341-30 Research Project

**23/24**

**Department**

Life Sciences

**Level**

Undergraduate Level 3

**Module leader**

Daniel Franklin

**Credit value**

30

**Module duration**

30 weeks

**Assessment**

Multiple

**Study location**

University of Warwick main campus, Coventry

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## Description

### Introductory description

The Y3 research project is a capstone module, in which students bring together all the research and practical skills they have been taught in Y1-3 teaching laboratories and the tutorial program. Students are assigned a project and have to produce a 10,000 word thesis.

### Module aims

The aim of the module is to give students the opportunity to utilise the research and evaluation skills developed throughout years 1,2,and 3 in order to produce a substantial piece of research.

- Students complete a seminar based on their research project aimed at an educated lay audience.
- Students complete a research project which includes:
  1. A high quality scientific literature review of their chosen research field.
  2. Critical appraisal of source material- (including use of statistical knowledge covered during Year 1, 2 and 3 to appraise and evaluate published data)
  3. Construction of scientific arguments based on multiple sources
  4. Production of a scientific abstract
  5. Production of a discussion and conclusion which include evidence of independent thought

and reasoning

6. Evidence of reflective practice (in the form of a longitudinal project diary)

## **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.

1. A high quality scientific literature review of their chosen research field.
2. Critical appraisal of source material- (including use of statistical knowledge covered during Year 1, 2 and 3 to appraise and evaluate published data)
3. Construction of scientific arguments based on multiple sources
4. Production of a scientific abstract
5. Production of a discussion and conclusion which include evidence of independent thought and reasoning
6. Evidence of reflective practice (in the form of a longitudinal project diary)

## **Learning outcomes**

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

- O1: Plan and engage in an independent and sustained critical investigation and evaluation of a chosen research topic
- LO2: Research and present an oral seminar presentation on the project topic
- LO3: Identify and appraise relevant scientific literature using on-line literature search engines, relate this to appropriate methodologies and draw appropriate conclusions
- LO4: Critically review relevant research papers
- LO5: Demonstrate critical appraisal
- LO6: Effectively construct scientific results and arguments, using multiple sources.

## **Research element**

Critical appraisal of source material- (including use of statistical knowledge covered during Year 1, 2 and 3 to

appraise and evaluate published data)

Construction of scientific arguments based on multiple sources

Production of a scientific abstract

Production of a discussion and conclusion which include evidence of independent thought and reasoning

Evidence of reflective practice (in the form of a longitudinal project diary)

## **Subject specific skills**

Critical appraisal of source material- (including use of statistical knowledge covered during Year 1, 2 and 3 to

appraise and evaluate published data)

Construction of scientific arguments based on multiple sources

Production of a scientific abstract

Production of a discussion and conclusion which include evidence of independent thought and reasoning

Evidence of reflective practice (in the form of a longitudinal project diary)

## Transferable skills

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

### Study time

Type	Required
Lectures	2 sessions of 1 hour (1%)
Project supervision	8 sessions of 1 hour (3%)
Private study	290 hours (97%)
Total	300 hours

### Private study description

Independent study, covering research, background reading and data analysis- work culminates in production of a 10,000 word thesis and a 15 min research seminar presentation

## 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 A1

	Weighting	Study time
Research Project journal article report in the style of an academic journal paper presenting original research (max 8000 words)	64%	
Research Seminar	20%	

	<b>Weighting</b>	<b>Study time</b>
15 min seminar presentation		
Project performance	16%	

### **Assessment group R1**

	<b>Weighting</b>	<b>Study time</b>
No reassessment	100%	
In-module test, MCQ and short answer questions		

### **Feedback on assessment**

Individual written feedback for both seminar and report.

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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)
- UBSA-3 Undergraduate Biological Sciences
  - Year 3 of C100 Biological Sciences
  - Year 3 of C100 Biological Sciences
- Year 3 of ULFA-C1A1 Undergraduate Biological Sciences (MBio)
- Year 4 of ULFA-C113 Undergraduate Biological Sciences (with Placement Year)
- Year 3 of ULFA-C1A5 Undergraduate Biological Sciences with Industrial Placement (MBio)
- UBSA-C1B9 Undergraduate Biomedical Science
  - Year 3 of C1B9 Biomedical Science
  - Year 3 of C1B9 Biomedical Science
  - Year 3 of C1B9 Biomedical Science
- ULFA-C1A3 Undergraduate Biomedical Science (MBio)
  - Year 3 of C1A3 Biomedical Science
  - Year 3 of C1B9 Biomedical Science
- Year 3 of ULFA-C1A7 Undergraduate Biomedical Science with Industrial Placement (MBio)
- ULFA-CB18 Undergraduate Biomedical Science with Placement Year
  - Year 4 of CB18 Biomedical Science with Placement Year
  - Year 4 of CB18 Biomedical Science with Placement Year

- Year 4 of CB18 Biomedical Science with Placement Year
- Year 3 of ULFA-B140 Undergraduate Neuroscience (BSc)
- Year 3 of ULFA-B142 Undergraduate Neuroscience (MBio)
- Year 3 of ULFA-B143 Undergraduate Neuroscience (with Industrial Placement) (MBio)
- Year 4 of ULFA-B141 Undergraduate Neuroscience (with Placement Year) (BSc)

This module is Core optional for:

- UIPA-C1L8 Undergraduate Life Sciences and Global Sustainable Development
  - Year 3 of C1L8 Life Sciences and Global Sustainable Development
  - Year 3 of C1LA Life Sciences and Global Sustainable Development: Biological Sciences
  - Year 3 of C1LB Life Sciences and Global Sustainable Development: Ecology
- UIPA-C1L9 Undergraduate Life Sciences and Global Sustainable Development (with Intercalated Year)
  - Year 4 of C1L9 Life Sciences and Global Sustainable Development (with Intercalated Year)
  - Year 4 of C1LC Life Sciences and Global Sustainable Development: Biological Sciences (with Intercalated Year)
  - Year 4 of C1LD Life Sciences and Global Sustainable Development: Ecology (with Intercalated Year)