



### 1. Programme Title(s) and Code(s):

<i>Programme Title</i>	<i>UCAS Code</i>	<i>GU Code</i>
BSc Honours in Biochemistry	C700	C700-2105

### 2. Academic Session:

2018-19

### 3. SCQF Level (see [Scottish Credit and Qualifications Framework Levels](#)):

10

### 4. Credits:

480

### 5. Entrance Requirements:

Please refer to the current undergraduate prospectus at: <http://www.gla.ac.uk/undergraduate/>

### 6. ATAS Certificate Requirement (see [Academic Technology Approval Scheme](#)):

ATAS Certificate not required

### 7. Attendance Type:

Full Time

### 8. Programme Aims:

Biochemistry combines the approaches of biology and chemistry to understand the molecular basis of life. Biochemistry is a rapidly-developing subject which aims to explain the working of living systems at a molecular level, including the structural and biological roles of metabolites, nucleic acids and proteins.

This programme provides a broad education in the subject followed by advanced coverage of selected topics.

<sup>1</sup> This specification provides a concise summary of the main features of the programme and the learning outcomes that a typical student might reasonably be expected to achieve and demonstrate if full advantage is taken of the learning opportunities that are provided. More detailed information on the learning outcomes, content and teaching, learning and assessment methods of each course can be found in course handbooks and other programme documentation and online at [www.gla.ac.uk/](http://www.gla.ac.uk/)

The accuracy of the information in this document is reviewed periodically by the University and may be checked by the Quality Assurance Agency for Higher Education.

The particular strengths of the programme are: (a) the extensive range of laboratory-based training, (b) the opportunity to undertake a wide variety of research projects, and (c) the detailed and advanced coverage of topics provided by research-active staff at the cutting edge of Biochemistry. There is strong emphasis on the development of key scientific and transferrable skills including data analysis, problem solving, report writing and oral communication.

The principal aims are:

- To equip students with core knowledge and understanding of Biochemistry.
- To provide a research-led education in selected advanced topics in Biochemistry.
- To expose students to the nature and use of the relevant methods and strategies of scientific investigation.
- To provide students with the opportunity to undertake independent research in Biochemistry or a cognate discipline.
- To develop appropriate transferable, intellectual, interpersonal and practical skills important for employment or study.
- To develop the confidence and life-long learning skills of students.
- Across the programme, identify aims and goals; design appropriate strategies; manage time and resources; work to deadlines; assess outcomes; and reflect on the outcomes to inform subsequent work.

#### **9. Intended Learning Outcomes of Programme:**

The programme provides opportunities for students to develop and to demonstrate knowledge and understanding, skills and other attributes as described below.

By the end of this programme, students will be able to:

- Assess and apply knowledge of the central facts and concepts of Biochemistry.
- Assess and apply advanced knowledge of the principles behind, and applications of, key experimental approaches and strategies used in Biochemistry.
- Conduct and report on a supervised independent research project in Biochemistry or a cognate discipline.
- Assimilate relevant information from primary and secondary scientific literatures in Biochemistry and judge the relative credibility of alternative sources of information.
- Relate Biochemistry to the larger context of other life sciences.
- Process and analyse data, and solve problems of a logical nature, in Biochemistry.

#### **10. Typical Learning and Teaching Approaches:**

Typically, these will include:

Lectures

Laboratories

Workshops

Tutorials

Problem based learning

Group projects

Seminars

Dissertation

Honours project

## 11. Typical Assessment Methods:

Typically, these will include:

Written examinations (essays, objective testing, short answers and problem-solving)

Laboratory reports

Essays

Peer reviews

Oral presentations

Posters

Dissertation

Honours project report

## 12. Programme Structure and Features:

The BSc Honours programme normally lasts 4 years, comprises both compulsory and optional courses, and comprises 480 credits (120 credits each year).

### Structure

Course Title	Course Code	Credits	Core	Optional	Semester(s) taught
<b>Year 1:</b>					
Biology-1A	BIOL1001	20	✓		Sem 1
Biology-1B	BIOL1002	20	✓		Sem 2
<b>EITHER</b> Chemistry-1	CHEM1001	40	✓		Sem 1–2
<b>OR</b> Science Fundamentals-1X & -1Y	CHEM1002 CHEM1003	2 x 20			Sem 1–2
<i>other Level-1 course(s)</i>		40		✓	
<b>Year 2:</b>					
Fundamental Topics in Biology 2	BIOL2039	30	✓		Sem 1
Genes, Molecules & Cells 2	BIOL2042	30	✓		Sem 2
Key Skills in Biology 2	BIOL2040	30		✓	Sem 1
<i>other Level-1 or -2 course(s)</i>		30		✓	
<b>Year 3 (Honours):</b>					
Biochemistry 3A	BIOL4009	60	✓		Sem 1
Biochemistry 3B	BIOL4010	60	✓		Sem 2
<b>Year 4 (Honours final year):</b>					
Biochemistry Advanced Studies	BIOL4011	20	✓		Sem 1–2
<i>One of these project courses:</i>					
Life Sciences Investigative Honours Project	BIOL4246P	20	✓		Sem 1–2
Life Sciences Dissertation Honours Project	BIOL4247P				
Life Sciences Outreach Honours Project	BIOL4248P				
Life Sciences Internship Honours Project	BIOL4249P				
<i>4 x Life Sciences Honours options</i>		4 x 20		✓	

### Life Sciences Honours Options:

The programme will prescribe a mixture of compulsory, recommended and/or suitable Honours options courses. In addition, the list of available Honours option courses is liable to change each session. The options available in the current session can be found via the University's Course Catalogue ([www.gla.ac.uk/coursecatalogue/](http://www.gla.ac.uk/coursecatalogue/)).

### Features:

Students may apply to study abroad during either Year 2 or Year 3; this is subject to approval by the School of Life Sciences.

Years 1 and 2 may be available for part-time study. Years 3 and 4 are normally only available on a full-time

basis.

**Regulations:**

This programme will be governed by the relevant regulations published in the University Calendar. These regulations include the requirements in relation to:

- (a) Award of the degree
- (b) Progress
- (c) Early exit awards
- (d) (For undergraduate programmes, where appropriate) Entry to Honours

[www.gla.ac.uk/services/senateoffice/policies/calendar/](http://www.gla.ac.uk/services/senateoffice/policies/calendar/)

**13. Programme Accredited By:**

**14. Location(s):**

Glasgow

**15. College:**

College of Medical Veterinary and Life Sciences

**16. Lead School/Institute:**

Life Sciences [REG20100000]

**17. Is this programme collaborative with another institution:**

No

**18. Awarding Institution(s):**

University of Glasgow

**19. Teaching Institution(s):**

University of Glasgow

**20. Language of Instruction:**

English

**21. Language of Assessment:**

English

**22. Relevant QAA Subject Benchmark Statements (see [Quality Assurance Agency for Higher Education](http://www.qaa.ac.uk))**

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**and Other External or Internal Reference Points:**

See QAA Benchmark Statement for Biosciences:  
[www.qaa.ac.uk/en/Publications/Documents/SBS-Biosciences-15.pdf](http://www.qaa.ac.uk/en/Publications/Documents/SBS-Biosciences-15.pdf)

**23. Additional Relevant Information (if applicable):**

Support for students is provided by the Postgraduate/Undergraduate Adviser(s) of Studies supported by University resources such LEADS ([www.gla.ac.uk/myglasgow/leads/](http://www.gla.ac.uk/myglasgow/leads/)), Counselling & Psychological Services ([www.gla.ac.uk/services/counselling/](http://www.gla.ac.uk/services/counselling/)), the Disability Service ([www.gla.ac.uk/services/studentdisability/](http://www.gla.ac.uk/services/studentdisability/)) and the Careers Service ([www.gla.ac.uk/services/careers/](http://www.gla.ac.uk/services/careers/)).

**24. Online Learning:**

No

<b>25. Date of approval:</b>	31/10/2017
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