General Information Module Code BIO-5002A Academic Year 2021/2 Module Title BIOCHEMISTRY Module type ww Semester / Term SEM1 Level 5 Credit Value 20 Scheme UG Related Modules: Pre-requisite BIO-4018B or BIO-4017Y Co-requisite Forbidden Timetable slot H1-I1, H3/, G2/, C1/-B3, C2 Is this module suitable for inbound study abroad students? Y	22/21, 3.39 PW	BIO-3002A, BIOCHEWISTRY, 2021.Hulli
BIO-5002A Academic Year 2021/2 Module Title BIOCHEMISTRY Module type WW Semester / Term SEM1 Level 5 Credit Value 20 Scheme UG Related Modules: Pre-requisite BIO-4016B or BIO-4017Y Co-requisite Frobidden Timetable slot H1-I1, H3/, G2/, C1/-B3, C2 Is this module suitable for inbound study abroad students?	General Information	
Academic Year 2021/2 Module Title BIOCHEMISTRY Module type WW Semester / Term SEM1 Level 5 Credit Value 20 Scheme UG Related Modules: Pre-requisite BIO-4016B or BIO-4017Y Co-requisite Forbidden Timetable slot H1-I11, H3/, G2/, C1/-B3, C2 Is this module suitable for inbound study abroad students?	Module Code	
Module Title BIOCHEMISTRY Module type WW Semester / Term SEM1 Level 5 Credit Value 20 Scheme UG Related Modules: Pre-requisite BIO-4016B or BIO-4017Y Co-requisite Forbidden Timetable slot H1-I1V, H3V, G2V, C1/-B3, C2 Is this module suitable for inbound study abroad students?	BIO-5002A	
Module Title BIOCHEMISTRY Module type WW Semester / Term SEM1 Level 5 Credit Value 20 Scheme UG Related Modules: Pre-requisite BIO-4016B or BIO-4017Y Co-requisite Forbidden Timetable slot H1-I1V, H3/, G2/, C1/-B3, C2 Is this module suitable for inbound study abroad students?	Academic Year	
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Module type WW Semester / Term SEM1 Level 5 Credit Value 20 Scheme UG Related Modules: Pre-requisite BIO-4016B or BIO-4017Y Co-requisite Forbidden Timetable slot H1-I1 H3/, G2/, C1/-B3, C2 Is this module suitable for inbound study abroad students?	Module Title	
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Semester / Term SEM1 Level 5 Credit Value 20 Scheme UG Related Modules: Pre-requisite BIO-4016B or BIO-4017Y Co-requisite Forbidden Timetable slot H1-11 H3/, G2/, C1/-B3, C2 Is this module suitable for inbound study abroad students?	Module type	
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Level 5 Credit Value 20 Scheme UG Related Modules: Pre-requisite BIO-4016B or BIO-4017Y Co-requisite Forbidden Timetable slot H1-I1 H3/, G2/, C1/-B3, C2 Is this module suitable for inbound study abroad students?	Semester / Term	
Credit Value 20 Scheme UG Related Modules: Pre-requisite BIO-4016B or BIO-4017Y Co-requisite Forbidden Timetable slot H1-I1 H3/, G2/, C1/-B3, C2 Is this module suitable for inbound study abroad students?	SEM1	
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Timetable slot H1-I1 H3/, G2/, C1/-B3, C2 Is this module suitable for inbound study abroad students?	Co-requisite	
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Is this module suitable for inbound study abroad students?	Timetable slot	
	H1-I1 H3/, G2/, C1/-B3, C2	
Υ	Is this module suitable for inbound study abroa	ad students?
	Υ	
Additional costs	Additional costs	

Maximum number of students

999

Module Organiser

Professor Richard Bowater

Module Description

What is this module about?

This module aims to develop your understanding of contemporary biochemistry, especially in relation to mammalian physiology and metabolism. There will be a particular focus on proteins and their involvement in cellular reactions, bioenergetics and signalling processes.

Learning objectives and Outcomes

What are the Learning objectives?

This module aims to develop understanding of contemporary biochemistry, especially in relation to mammalian physiology and metabolism. There will be a particular focus on proteins and their involvement in cellular reactions, bioenergetics and signalling processes.

What are the Learning Outcomes?

Name Details

1

Cellular metabolism

Understand the main pathways of cellular metabolism and explain how they inter-relate and are regulated.

2

Basic biochemical processes

Provide a detailed biochemical explanation of energy conversion processes, especially in terms of the mitochondria, membrane transport and signalling pathways.

3

Turnover of proteins and cells

Describe biochemical processes involved in the turnover of proteins and cells.

4

Laboratory skills

Demonstrate a sound understanding in the practical aspects of biochemistry and the laboratory skills it involves.

5

Translational skills

Demonstrate improved translational skills, e.g. in team-working and presentation.

Learning activities and Effort hours

Learning activity	Total effort hours	Indicative effort hours per week
1. Class sessions (Lectures, workshops, lab sessions, seminars etc.)	42	
2. Pre-class preparation and follow up study	30	
3. Work-based or Placement Hours		
4. Formative assessments/ activities	10	
5. Feedback/ Feed forward sessions		
6. Summative assessments (essays, dissertations, oral presentations, worksheets, lab reports etc.)	35	
7. Background reading	30	
8. Exams/ OSCEs	3	
9. Course Tests		
10. Tutorials (Individual or small groups)		
Total Hours =	150.00	0.00

Learning Support Materials

Should this module be exempt from requiring an online reading list?

Ν

Link to Talis (https://uea.rl.talis.com/index.html)

Formative Assessments

Assessment Type	Title	Deadline
Formative Assessment	Online Test	
Formative Assessment	Online Data Analyses	18/Nov/2021
Formative Assessment	Formative version of module exam	16/Dec/2021
	Formative Assessment Formative Assessment	Formative Assessment Online Test Formative Assessment Online Data Analyses

Summative	Assessments						
Sequence	Assessment Type	Title	Deadline	Weighting	Method of submission	Method of return	Return (
001	Written Assignment	Practical Report (3000 words)	16/Dec/2021	40 / 100	Coursework: Bb file submission point	VIA BLACKBOARD	08/Feb/2
Further Details							
002	Exam Standard	Examination		60 / 100			
Further Details							

Attribute Development

On this module students will develop knowledge, insights and attributes that are readily transferable into future or current work settings. The attributes are articulated below to help understand how the module will help students to thrive on their course and prepare them for the world of work. These attributes are also articulated within the UEA Award.

Academic excellence

- In-depth and extensive knowledge, understanding and skills in chosen discipline(s)
- The ability to collect, collate, analyse and critically engage with a wide range of information sources, and evidence

☑ The ability to analyse and critically engage with a wide range of concepts and ideas
Critical thinking & problem solving
☑ A capacity for independent, conceptual and creative thinking
A capacity for informed argument and logical reasoning
A capacity for problem identification and problem-solving
Learning & personal development
A commitment to developing professional values, self-insight and capabilities
☐ The ability to respond positively to constructive criticism and feedback from peers, tutors and colleagues
Self-confidence and an ability to exercise own 'voice'
Digital literacy and IT
Confidently employ a range of digital technologies for academic and professional/ career development purposes
Use appropriate digital technologies and resources to locate diverse types of information for both academic and non-academic purposes
The ability to critically evaluate and engage with the information obtained
Self-management & professionalism
A capacity for taking responsibilities and ownership of actions
An ability to manage time effectively, including setting priorities, juggling competing demands and meeting deadlines
An understanding of work cultures and practices, including work place professionalism
Team working and leadership
An ability to co-operate and collaborate with others, including working to shared aims
An ability to take other viewpoints, have empathy for other people's position and give constructive feedback
An ability to motivate and lead others, including taking the initiative and delegating when required
Communication
An ability to communicate in written form for different purposes, audiences and contexts
☐ An ability to communicate in person for different purposes, audiences and contexts
An ability to network effectively with others for specific purposes
Applied numeracy and Technical proficiency
An ability to perform routine calculations in daily tasks and in applied contexts
An ability to analyse and interpret data and evidence
Proficiency in skilled techniques used for academic and professional purposes
Career management

A capacity to reflect on and articulate qualities, strengths and attributes
☐ The ability to research specific job and career areas
An ability to present your experience and attributes positively to graduate employers
Commercial awareness
A knowledge of the link between academic subjects and their commercial applications
An understanding of business priorities and the needs of graduate employers
☐ The ability to understand and prioritise customer needs
Innovation and enterprise
☐ The confidence to introduce and establish something new
☐ The potential to take an idea through to its practical application
☐ The potential to apply an enterprising mind-set to situations
Citizenship and stewardship
An understanding of your place within local and global communities
An awareness of the need to manage shared and finite resources, including an appreciation of moral and ethical dimensions
An ability to improve the lives of others and lobby for positive change through community and/or political engagement