

## General Information

**Module Code**

BIO-5004A

**Academic Year**

2021/2

**Module Title**

HUMAN PHYSIOLOGY

**Module type**

WW

**Semester / Term**

SEM1

**Level**

5

**Credit Value**

20

**Scheme**

UG

**Related Modules:**

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**Pre-requisite**

4013Y and 4009Y (or CHE-4602Y)

**Co-requisite****Forbidden**

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**Timetable slot**

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**Is this module suitable for inbound study abroad students?**

Y

**Additional costs**

**Maximum number of students**

999

**Module Organiser**

Dr Jeremy Rhodes

**Module Description****What is this module about?**

This module will provide you with an understanding of the themes and principles of physiology and a detailed knowledge of the major human organ systems. An understanding of how disease affects the ability of organ systems to maintain the status quo will be an important part of this course.

**Learning objectives and Outcomes****What are the Learning objectives?**

1. To further develop a detailed knowledge of the principles of human physiology and the major organ systems.
2. To develop an understanding of the mechanisms and effects of human disease on the functioning of the human body.
3. The opportunity to develop key transferable skills such as lab skills, report writing, assignment preparation, researching and evaluating evidence.

**What are the Learning Outcomes?**

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<b>Name</b>	<b>Details</b>
<b>1</b>	To develop a good understanding of the major themes and principles of human physiology and the major organ systems of the body. Study of the following aspects of physiology: cellular organisation of the body, the compartmentalisation of the body, the organ systems of the body, homeostasis, feedback control and regulatory mechanisms.
<b>2</b>	A detailed knowledge of one or more specific aspects of human physiology and disease. A detailed individual study of a particular aspect of human physiology will be carried out as part of the module. This aspect of the module will be assessed in the form of an essay.
<b>3</b>	Learn basic skills in scientific writing. Students will be required to write an essay and two laboratory reports.
<b>4</b>	Develop skills in reading and critical interpretation of original scientific research papers.

Students will be given the opportunity to review original scientific literature as part of the preparation for writing an essay on a current research topic.

## 5

Learn basic skills in experimental design, practical data collection, analysis and report writing.

In practical classes students will perform basic physiology experiments and data collection. They will learn to analyse their data and apply knowledge gained from the lectures to write a comprehensive scientific report on their results.

## 6

Learn how to work independently.

Students will be expected to take personal responsibility for their studies. They will be given the opportunity to develop skills in working independently while preparing their essay and lab reports.

## Learning activities and Effort hours

Learning activity	Total effort hours	Indicative effort hours per week
1. Class sessions (Lectures, workshops, lab sessions, seminars etc.)	40	3.5
2. Pre-class preparation and follow up study	40	3.5
3. Work-based or Placement Hours		
4. Formative assessments/ activities	30	2.5
5. Feedback/ Feed forward sessions		
6. Summative assessments (essays, dissertations, oral presentations, worksheets, lab reports etc.)	30	
7. Background reading	58	2.5
8. Exams/ OSCEs	2	
9. Course Tests		
10. Tutorials (Individual or small groups)		
<b>Total Hours =</b>	<b>200.00</b>	<b>12.00</b>

## Learning Support Materials

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

N

Link to Talis (<https://uea.rl.talis.com/index.html>)**Formative Assessments**

<b>Sequence</b>	<b>Assessment Type</b>	<b>Title</b>	<b>Deadline</b>
FM2	Formative Assessment	Practical Report	
FM4	Formative Assessment	SEM1 VIS Students: Practical Report	

**Summative Assessments**

<b>Sequence</b>	<b>Assessment Type</b>	<b>Title</b>	<b>Deadline</b>	<b>Weighting</b>	<b>Method of submission</b>	<b>Method of return</b>	<b>Return date</b>	<b>Format and purpose of feedback</b>
001	Written Assignment	Essay		20 / 200	e:Vision (*NOT IN USE*)	VIA HUB		
<b>Further Details</b>								
002	Written Assignment	Practical Report		20 / 200	Via the Hub (*NOT IN USE*)			
<b>Further Details</b>								
003	Exam Standard	Examination		60 / 200	In Class (*NOT IN USE*)			
<b>Further Details</b>								

Sequence	Assessment Type	Title	Deadline	Weighting	Method of submission	Method of return	Return date	Format and purpose of feedback
004	Written Assignment	SEM1 VIS Students: Essay		20 / 200	e:Vision (*NOT IN USE*)			
<b>Further Details</b>								
005	Written Assignment	SEM1 VIS Students: Practical Report		20 / 200	Via the Hub (*NOT IN USE*)			
<b>Further Details</b>								
006	Coursetest or Problem sheet	SEM1 VIS Students: Course Test		60 / 200				
<b>Further Details</b>								

## 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