

# LBIOL4144 Integrated Anatomy and Physiology I Course Descriptor

Course Code	LBIOL4144	Discipline	Biology
UK Credit	20	US Credit	5
FHEQ Level	4	Date Approved	July 2023
Core Attributes	ND <i>subject to approval by the NUpath Committee</i>		
Prerequisites			
Co-requisites			

## Course Overview

This course introduces students to key concepts and principles of human anatomy and physiology, with a focus on the structure and function of cells, tissues and organs. Students will explore the integumentary, skeletal, muscular, nervous, and endocrine systems, learning how to identify and describe their major structures and components using anatomical terms. Building on this foundational knowledge, students will explore the anatomical and physiological relationships between organ systems, how they maintain homeostasis, and the effects of disrupting this equilibrium. Additionally, students will discuss some of the clinical implications of anatomy and physiology in the context of health and disease. The course will be taught using a combination of lectures, demonstrations, hands-on experimentation, and simulations.

This is the first of two courses offered in the Northeastern University GlobalNetwork studying all body systems: in a subsequent course (namely, Integrated Anatomy and Physiology II), students will have the opportunity to explore the circulatory, immune, respiratory, urinary, digestive and reproductive systems.

## Learning Outcomes

On successful completion of the course, students will be able to:

### Knowledge and Understanding

- K1a Demonstrate a detailed understanding of human anatomy and physiology, with a focus on the integumentary, skeletal, muscular, nervous, and endocrine systems.
- K2a Understand the relationship between structure and function, and its role in maintaining body homeostasis.
- K3a Relate knowledge of normal anatomy and physiology towards recognising and explaining states of pathology.

### Subject Specific Skills

- S1a Identify and describe major anatomical structures and systems that constitute the human body, with accuracy and using the appropriate terminology.
- S2a Analyse and interpret experimental data, relating conclusions to the underlying anatomy and/or physiology.

### Transferable and Professional/Employability Skills

- T1a Develop the preliminary skills necessary for independent study.
- T2a Display a developing technical proficiency in written English and an ability to communicate clearly and accurately in structured and coherent pieces of writing.

## Teaching and Learning

Teaching and learning strategies for this course will include: A minimum of 50 contact hours, typically to include interactive group teaching, co-curriculars, practical sessions, and in-class presentations and exams.

Course information and supplementary materials are available on the University's Virtual Learning Environment (VLE). Students will receive individualised developmental feedback on their work for this course.

Students are required to attend and participate in all the formal and timetabled sessions for this course. Students are also expected to manage their directed learning and independent study in support of the course.

## Assessment

### Formative

Students will be formatively assessed in class through class activities and practical exercises. Formative assessments do not count towards the final grade but provide students with developmental feedback.

### Summative

AE	Assessment Activity	Weighting (%)	Duration	Length
1	Examination	20	1 hour	n/a
2	Examination	40	2 hours	n/a
3	Portfolio	40	20-30 hours of work	

Indicative Content:

Portfolio:

- Part 1 Post-lab worksheet
- Part 2 Patient education handouts

Further information on the structure of summative assessment elements can be found in the Summative Assessment Briefs.

## Feedback

Students will receive feedback in a variety of ways: written (including via email correspondence); oral (within office hours or on an *ad hoc* basis) and indirectly through class discussion.

Feedback on examinations is provided through generic internal examiners' reports and are made available to the student on the VLE. For all other summative assessment methods, feedback is made available to the student either via email, the VLE or another appropriate method.

## Indicative Reading

Comprehensive and current reading lists for courses are produced annually in the Course Syllabus or other documentation provided to students. The indicative reading list provided below is used as part of the approval/modification process only.

## Books

Betts et al. (2022) Anatomy and Physiology 2e. [OpenStax](#). ISBN-13 978-1-711494-06-7 (hardcover); ISBN-13 978-1-951693-42-8 (digital)

## Indicative Topics

Students will typically study the following topics:

- Basic biochemistry and cell biology
- Human tissues and organs
- Skin
- Skeletal and muscular anatomy and physiology
- The Nervous system
- The Endocrine system

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