

## **COURSE SPECIFICATION DOCUMENT**

**NOTE:** ANY CHANGES TO A CSD MUST GO THROUGH ALL OF THE RELEVANT APPROVAL PROCESSES, INCLUDING LTTC.

**Academic School/Department:** General Education

**Programme:** Combined Studies

**FHEQ Level:** 3

**Course Title:** Human Biology

**Course Code:** BIO 3105

**Course Leader:** Dr Peter A. Bolton

**Student Engagement Hours:** 120

Lectures: 45

Seminar / Tutorials:

Independent / Guided Learning : 75

**Semester:** Fall

**Credits:** 12 UK CATS credits

6 ECTS credits

3 US credits

### **Course Description:**

The basis for study is the human body. This course deals with the healthy body and what can go wrong, and how the individual can maintain his or her body as far as is currently understood. Topics include: cell structure; viruses and their effect; cancer; digestion; nutrition; circulation; immunity; the endocrine system and genetics.

**Pre- or co-requisite:** MTH 3000 or Mathematics Assessment exemption.

### **Aims and Objectives**

This course aims to expose students to an understanding of the natural and physical world around us. The understanding of the human body comes from a thorough examination of the various body systems with respect to their anatomy, biochemistry and physiology. Emphasis will be placed on disease prevention and control, especially 'Lifestyle Diseases' and the importance of diet and exercise stressed.

### **Programme Outcomes :**

3Ai, 3Bi, 3Ci, 3Di

A detailed list of the programme outcomes are found in the Programme Specification.

This is located at the Departmental/Schools page of the portal.

### **Learning Outcomes**

- a) Demonstrate knowledge of cell structure and metabolism. Knowledge of form and function, principles of homeostasis.
- b) Understand the structure and function of different body systems. Demonstrate the ability to bring together principles and concepts from different areas of human biology and apply them in a particular context. (synoptic skills).
- c) Demonstrate an ability to think critically and synthesize scientific information.
- d) Ability to reflect upon and discuss the nature of human biology as a science and its role in medicine and industry.

### **Indicative Content:**

- The Cell and Organelles
- Body Organisation and Biological Chemistry
- The Digestive System
- The Respiratory System
- The Circulatory System
- Body Organisation and Homeostasis
- The Nervous System
- The Muscular System
- The Reproductive System
- Genetics and Human Inheritance
- Infectious and Lifestyle Diseases and their Prevention and Control

### **Assessment:**

This course conforms to the Richmond University Standard Assessment Norms approved by Academic Council on 28 June 2012.

### **Teaching Methodology:**

The course material will be presented by means of lectures (Powerpoint Presentations) with full handouts. There are weekly reading assignments (see course schedule) and additional topical material will be introduced as and when it appears. Class discussions will be based on DVD presentations and current news topics.

**Bibliography:** See Syllabus for complete Reading List

**IndicativeText(s):** Goodenough J., Mc Guire B. and Wallace R. (2012). *Biology of Humans. Concepts, Applications and Issues*. International Edition. 4<sup>th</sup> Edition. Pearson.

*Please Note: The core and reference texts will be reviewed at the time of designing the semester syllabus*

---

Change Log for this CSD:

