MODULE TITLE	Foundation Biology 2 (Human Biology)		CREDIT VALUE	20
MODULE CODE	INT0031	MODULE CONVENER	Julia de Ste Croix	

DURATION	TERM	1	2	3	Number Students Taking Module (anticipated)	10
	WEEKS	N/A	12	N/A		

DESCRIPTION – summary of the module content (100 words)

This module complements the Foundation Biology module, INT0016, extending your knowledge of the basic physiology and functioning of human body systems. It is intended to prepare you for the first year of undergraduate study in medicine or related medical or biological sciences. You will broaden your analytical and interpretative skills building on those developed in the Introduction to Biological Science module, INT0016 and the Foundation Chemistry module, INT0015.

It is a requirement of this module that you have studied or will be concurrently studying the Introduction to Biological Science module, INT0016.

MODULE AIMS – intentions of the module

1. To develop essential knowledge and understanding of different areas of human biology and how they relate to each other.

2. To provide a foundation knowledge of human body systems and homeostasis which, in conjunction with the content of the Foundation Biology module, INT0016, gives the preparatory biological requirement for progression to the first year of an undergraduate programme in medicine or related medical or biological sciences.

3. To prepare students for a problem/enquiry-based approach to learning.

INTENDED LEARNING OUTCOMES (ILOs) (see assessment section below for how ILOs will be assessed)
On successful completion of this module ***you should be able to***:

Module Specific Skills and Knowledge:	
1	Describe the systems of the human body which are associated with particular functions
2	Describe the interrelationship of each system with other systems and the body as a whole
3	Evaluate data and reports associated with functioning of the body systems studies
4	Describe the effects of named diseases on the human body with particular emphasis on the body systems targeted
5	Describe the role of homeostasis in keeping a stable internal environment and in the regulation of body systems
Discipline Specific Skills and Knowledge:	
6	Explain the way key body systems relate to each other under normal conditions and how disease can disrupt this relationship
7	Describe and begin to evaluate aspects of knowledge in the medical sciences with reference to data sources outside of lectures
8	Analyse, interpret and evaluate experimental methods and results

Personal and Key Transferable/ Employment Skills and Knowledge:	
9	Take responsibility for most of your learning, with some tutor support
10	Work co-operatively and effectively in groups
11	Present your work effectively, both orally and in writing, to your peers
12	Consideration of ethical issues and the multiple perspectives that influence decisions regarding the treatment of human conditions

SYLLABUS PLAN – summary of the structure and academic content of the module

- Overview of the body as an organism (organisation, body systems and tissue types)
  Brief histology of epithelium, cuboid and ciliated; muscle, smooth and striated; connective tissue, collagen.
- Digestive system
  Structure and function of the human alimentary canal, its secretions and their role in digestion, *conditions affecting the digestive system*
- Circulatory system
  Structure and functions of the blood, heart and blood vessels, heart function, tissue fluid, *cardio-vascular disease*
- Respiratory system
  Ventilation, exchange of gases, *asthma*
  Biochemistry of respiration
- Nervous system
  Response to stimuli, spinal cord, simple reflex arc, structure of motor neurone, synapse and synaptic transmission, *effect of psychoactive drugs, motor neurone disease*
- Control systems
  Homeostasis and the concept of negative feedback, structure and function of the kidney, endocrine system, *kidney failure and dialysis*
- Fight or flight – muscles, hormones and nerves working together
  The production of a coordinated response, muscle contraction
- Reproductive system
  Structure and function of human reproductive systems, gametogenesis, fertilisation and implantation, *infertility, IVF*
- Human defence mechanisms
  Barriers against infection, immune response, vaccination, *HIV*

LEARNING ACTIVITIES AND TEACHING METHODS (given in hours of study time)

Scheduled Learning & Teaching activities	60	Guided independent study	140	Placement/study abroad	0

DETAILS OF LEARNING ACTIVITIES AND TEACHING METHODS

Category	Hours of study time	Description
Scheduled Learning and Teaching activities	60	Formal teaching/lectures, group tutorials and supervised group work
Guided independent study	140	Preparation for lectures and tutorial exercises. Reading and research. Carrying out coursework exercises both independently and in groups depending on the exercise.

ASSESSMENT

FORMATIVE ASSESSMENT - for feedback and development purposes; does not count towards module grade

Form of Assessment	Size of the assessment e.g. duration/length	ILOs assessed	Feedback method
class exercises e.g. tests, exam style questions, research, problem solving group tasks, data analysis	varies with topic	1-8,10-12	Oral feedback in class time
Presentation of disease research	Presentation approx. 10 minutes.	4, 6-8, 11	Formative feedback prior to report writing

SUMMATIVE ASSESSMENT (% of credit)

Coursework	40	Written exams	60		0

DETAILS OF SUMMATIVE ASSESSMENT

Form of Assessment	% of credit	Size of the assessment e.g. duration/length	ILOs assessed	Feedback method
Group exercise	20	Reflective log (10%) of formative group work covering at least 4 weeks followed by an assessed group exercise (10%) covering 2 weeks.	1-7, 9-12	Oral and/or written
Researching a named disease. Production of a written report	20	1000 words	1-9, 11, 12	Written feedback on formal submission.
Mid –term exam	20	2 hour written paper Section A – MCQs (10%) Section B - structured questions (10%)	1-6, 11	Formal grade only
Final exam	40	2 hour paper. Section A - MCQs (20%) Section B – structured questions (20%)	1-6, 11	Formal grade only.

DETAILS OF RE-ASSESSMENT (where required by referral or deferral)

Original form of assessment	Form of re-assessment	ILOs re-assessed	Time scale for re-assessment
Final exam (referral)	Exam	1-6, 11	Usually taken in next exam period
Final exam (deferral)	Exam	1-6, 11	Usually taken in next exam period

RE-ASSESSMENT NOTES

This is the process whereby a further attempt at the final examination, following a referral, is permitted without the requirement to repeat any attendance. Referral will constitute a second formal examination which will represent 100% of the final mark– coursework will not be included in the re-assessment. The grade for the referred exam, and therefore the module grade, will be capped at 40%.

All summative coursework must be completed before entitlement to a referral.

For students who are deferred, there will be an opportunity to re-sit the exams and coursework, as required. These students will not be capped.

RESOURCES

INDICATIVE LEARNING RESOURCES - The following list is offered as an indication of the type & level of information that you are expected to consult. Further guidance will be provided by the Module Convener.

Basic reading: Boyle,M (2008) Collins Advanced Science – Human Biology, Pub Collins Educational

ELE – http://vle.exeter.ac.uk/ (add URL for this module when we have one)

Other resources: (add when these become available)

CREDIT VALUE	20	**ECTS VALUE**	10
PRE-REQUISITE MODULES	Introduction to Biological Sciences module, INT0016 OR		
CO-REQUISITE MODULES	Introduction to Biological Sciences module, INT0016		
NQF LEVEL (FHEQ)	3	**AVAILABLE AS DISTANCE LEARNING**	NO
ORIGIN DATE	01/05/2015	**LAST REVISION DATE**	03/07/2015
KEY WORDS SEARCH	Human Biology, human body systems, homeostasis		

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