# Medicine (MD) Modules

## MD3001 Medicine: Honours 1 (Cardiovascular and Respiratory Systems)

<table>
<thead>
<tr>
<th>SCOTCAT Credits:</th>
<th>60</th>
<th>SCQF Level 9</th>
<th>Semester</th>
<th>1</th>
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<tbody>
<tr>
<td>Academic year:</td>
<td>2019/0</td>
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<td>Planned timetable:</td>
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Medical Science Honours 1 and 2 form the second turn of the curriculum spiral taking an integrated approach to the scientific basis of medicine at an Honours level. These modules will build upon the material delivered in the preceding Foundations of Medicine 1 and 2 modules. Medicine Honours 1 will cover the structure and functions of the cardiovascular and respiratory systems. The anatomy of the thorax will be studied by dissection. The disease mechanisms and therapy of disorders pertinent to these body systems will be introduced and relevant clinical problems and clinical skills will provide clinical context. The ethical, moral and behavioural aspects relevant to these systems will be discussed. MD3001 also provides system contextualised learning in the vertical themes of infection, public health and health psychology, as well as being part of the research skills matrix which prepares students for the critical review of published data and scientific writing.

**Pre-requisite(s):** Before taking this module you must pass MD2001 and pass MD2002

**Learning and teaching methods of delivery:**
- **Weekly contact:** On average 10 lectures and 6 hours of seminars/tutorials/practicals each week. Clinical case studies and clinical skills on a 2-week cycle including 5 day placements in clinical settings. Up to 6 hours per week of directed self-learning
- **Scheduled learning:** 250 hours
- **Guided independent study:** 350 hours

**Assessment pattern:**
- As defined by QAA: Written Examinations = 75%, Practical Examinations = 0%, Coursework = 25%
- As used by St Andrews:
  - Module Examinations will comprise 2 written examinations totaling 75% of the module grade. Coursework will comprise a written examinations totaling 25% of the module grade.

**Re-assessment pattern:** 2 x 1.5-hour Written Examinations = 100%

**Module coordinator:** Dr R A Humphreys

**Module teaching staff:** Dr Enis Cezayirli
MD3002 Medicine: Honours 2 (Reproductive, Renal and Gastrointestinal Systems)

- **SCOTCAT Credits:** 60
- **SCQF Level:** 9
- **Semester:** 2

**Academic year:** 2019/0
**Availability restrictions:** Available only to students enrolled in the BSc Honours Medicine programme.
**Planned timetable:** To be arranged.

Medicine Honours 2 will:
- Provide in depth coverage of the structure and functions of the reproductive, renal and gastrointestinal systems.
- Study the anatomy of the abdomen and pelvis by dissection.
- Cover the disease mechanisms and therapy of the disorders pertinent to these body systems.
- Use relevant clinical problems to provide the clinical context.
- Integrate the ethical, moral and behavioural aspects relevant to these systems.

MD3002 also provides system contextualised learning in the vertical themes of microbiology, public health and healthy psychology, as well as being part of the research skills matrix which prepares students for the critical review of published data and scientific writing.

**Pre-requisite(s):** Before taking this module you must pass MD2001 and pass MD2002

**Learning and teaching methods of delivery:**
- **Weekly contact:** 10 lectures and 6 hours of seminars/tutorials/practicals each week. Clinical case studies and clinical skills on a 2-week cycle including 5 day placements in clinical settings. Up to 6 hours per week of directed self-learning.
- **Scheduled learning:** 219 hours
- **Guided independent study:** 381 hours

**Assessment pattern:**
- **As defined by QAA:**
  - Written Examinations = 75%, Practical Examinations = 0%, Coursework = 25%
- **As used by St Andrews:**
  - Module Examinations will comprise 2 written examinations totaling 75% of the module grade. Attainment of competence in clinical skills appropriate to this stage of a medical curriculum as demonstrated in a pass/fail objective structured clinical exam (OSCE). Coursework will comprise a written examination totaling 25% of the module grade.

**Re-assessment pattern:**
- 2 x 1.5-hour Written Examinations = 100%

**Module coordinator:** Dr R Cruickshank
**Module teaching staff:** Dr Paul Reynolds

MD3101 Year 2 MBChB (Graduate Entry)

- **SCOTCAT Credits:** 180
- **SCQF Level:** 9
- **Semester:** Full Year
- **Academic year:** 2019/0
- **Availability restrictions:** Only available to students enrolled on the Medicine (Graduate Entry) programme.
- **Planned timetable:** To be arranged

The module will consist of an induction week in St Andrews, followed by a rotating series of 6-week clinical placements around NHS regions in Scotland. The first 4 blocks will focus on Case-Based Learning. Students will learn in primary care and secondary care settings. Students will then complete their Agents of Change project, undertaking a project over 6 weeks. The final block of the module will be Patient Journey and Emergency Care. Students will return to St Andrews for the end of year assessment.

**Pre-requisite(s):** Before taking this module you must pass MD2101

**Learning and teaching methods of delivery:**
- **Weekly contact:** Average 10 hours total lectures and tutorials over 30 weeks (Case-Based Learning and Patient Journey and Emergency Care blocks) plus two days of workplace-based learning (one with Generalist Clinical Mentor). Average 6 hours total of lectures, seminars and tutorials over 6 week project block.
- **Scheduled learning:** 0 hours
- **Guided independent study:** 0 hours

**Assessment pattern:**
- **As defined by QAA:**
  - Written Examinations = 40%, Practical Examinations = 40%, Coursework = 20%
- **As used by St Andrews:**
  - Coursework = 20%, Practical Examination = 40%, Written Examination = 40%

**Re-assessment pattern:**
- Coursework = 20%, Practical Examination = 40%, Written Examination = 40%

**Module coordinator:** Dr E W Williams
**Module teaching staff:** Prof J Zajicek
### MD4001 Medicine: Honours 3 (Central Nervous System and Endocrine System)

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This module continues the strategy of the spiral curriculum by revisiting foundation knowledge and progressing to the most complex integrative physiological systems namely the central nervous and endocrine systems. Medicine Honours 3 will: - provide in depth coverage of normal structure and function of the CNS and endocrine systems - study the anatomy of the head and neck by dissection - introduce diseases and possible therapies pertinent to these important control systems - present case studies associated with the CNS and endocrine systems to highlight appropriate clinical skills for the identification of neurological and endocrinological disorders - utilise audiovisual, literary and theoretical works to integrate ethical issues and behavioural science with clinical medicine - consider the evidence base for medicine and develop critical appraisal skills.

**Pre-requisite(s):** Before taking this module you must pass MD3001 and pass MD3002

**Learning and teaching methods of delivery:**
Weekly contact: On average 10 lectures and 6 hours of seminars/tutorials/practicals each week. Students typically spend two hours a week on clinical case studies and clinical skills, in addition to some whole day placements in clinical settings. Up to 6 hours per week of directed self-learning.

Scheduled learning: 250 hours
Guided independent study: 350 hours

**Assessment pattern:**
As defined by QAA:
Written Examinations = 75%, Practical Examinations = 0%, Coursework = 25%

As used by St Andrews:
Module Examinations will comprise 2 written examinations totaling 75% of the module grade. Coursework will comprise a written examination totaling 25% of the module grade.

**Re-assessment pattern:**
2 x 1.5-hour Written Examinations = 100%

**Module coordinator:** Dr R C Davies

**Module teaching staff:** Dr John Lucocq

### MD4002 Medicine: Honours 4 (Student-selected component)

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Students will undertake an Honours level Student-Selected Component (SSC) research project. This SSC will enable students to pursue an area of their own particular interest at an advanced level. SSCs will involve one of the following: - lab/data based research project assessed by dissertation and oral presentation - critical review project assessed by dissertation and oral presentation.

**Pre-requisite(s):** Before taking this module you must pass MD3001 and pass MD3002

**Learning and teaching methods of delivery:**
Weekly contact: To be arranged.

Scheduled learning: 5 hours
Guided independent study: 395 hours

**Assessment pattern:**
As defined by QAA:
Written Examinations = 100%, Practical Examinations = 0%, Coursework = 0%

As used by St Andrews:
Coursework = 95%, Practical Examination = 5%

**Re-assessment pattern:**
Coursework = 95%, Practical Exam = 5%

**Module coordinator:** Dr J A Tello
MD4003 Medicine: Honours 5 (Applied Medical Science)

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This module is delivered in small group format, and runs in parallel with the student selected module MD4002 in the second semester. Over the semester individual student contact hours are 25 delivered in 5 cycles. Each student attends for one full day every two weeks. The morning is divided into three parts: integrated clinical scenarios, and a combination of two of the following: a revision tutorial, workshop or skills practical. The afternoon is divided into two parts: feedback from morning’s work and a further session which may be a simulation exercise, workshop or practical. The feedback session enables students to improve their performance and also includes discussion relating to the simulated cases. New advanced skills are introduced to stimulate clinical development. Skills include ABCDE approach to patient management, breast examination, cannulation fluid management and safe prescribing. Clinical decision making and problem reasoning workshops are designed to develop clinical reasoning powers. The series of revision topics relate to patient investigations such as haematology, clinical chemistry and ECG. Anatomy relating to clinical examination and imaging is also reviewed. Revisiting these topics in a spiral curriculum reinforces areas previously covered. One cycle is dedicated to ward simulations where medical students work in multidisciplinary teams along with the nursing and pharmacy students from Dundee and Aberdeen.

Pre-requisite(s): Before taking this module you must pass MD3001 and pass MD3002

Learning and teaching methods of delivery:

Weekly contact: 5 hours in 5 clinical cycles over the semester as well as some whole day placements in clinical settings.

Scheduled learning: 50 hours  
Guided independent study: 150 hours

Assessment pattern:

As defined by QAA:
Written Examinations = 0%, Practical Examinations = 100%, Coursework = 0%

As used by St Andrews:
1 Objectively Structured Clinical Exam (OSCE) of 2 hours duration (100%)

Re-assessment pattern:
1 Objectively Structured Clinical Exam (OSCE) of 2 hours duration (100%)

Module coordinator: Dr P Bjelogrlic

Module teaching staff: Dr Peter Williamson