

Course Specification

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Produced By:	Laura Clode
Status:	Validated

Core Information

Awarding Body / Institution:	University of Wolverhampton		
School / Institute:	School of Medicine and Clinical Practice		
Course Code(s):	BM040H01UV Full-time 3 Years		3 Years
UCAS Code:	B907		
Course Title:	BSc (Hons) Medical Sci	ence and Clinical Practice	
Hierarchy of Awards:	Bachelor of Science with Honours Medical Science and Clinical Practice Bachelor of Science Medical Science and Clinical Practice Diploma of Higher Education Medical Science and Clinical Practice Certificate of Higher Education Medical Science and Clinical Practice University Statement of Credit University Statement of Credit		
Language of Study:	English		
Date of DAG approval:	15/Feb/2019		
Last Review:	2018/9		
Course Specification valid from:	2018/9		
Course Specification valid to:	2024/5		

Academic Staff

Course Leader:	STEPHEN DAY
Head of Department:	Dr Elizabeth O'Gara

Course Information

Location of Delivery:	University of Wolverhampton
Category of Partnership:	Not delivered in partnership
Teaching Institution:	University of Wolverhampton
Open / Closed Course:	This course is open to all suitably qualified candidates.

Entry Requirements:

Entry requirements are subject to regular review. The entry requirements applicable to a particular academic year will be published on the University website (and externally as appropriate e.g. UCAS

UCAS Tariff: 120 points

A level: BBB

- Including at least two GCE A levels from Biology, Chemistry, Mathematics and Physics (or BB in Applied Science Double Award).
- General Studies & Critical Thinking are not accepted

Scottish Highers:

• To include grades from two of the following subjects: Chemistry, Physics, Biology, Maths, plus Ordinary English Language, Mathematics, Chemistry and Biology at grade C.

GCSE/National 4/National 5:

- GCSE English Language, Mathematics and double award Science at grade C+/grade 4+
- Please note that for purposes of entry to this course the Level 2 Essential / Key Skill in Application of Number is NOT regarded as an acceptable alternative to GCSE Maths.
- BTEC qualifications are NOT accepted for this course.

Irish Leaving Certificate - Higher Level:

• To include at least 2 of the following at higher level H1: Chemistry, Biology, Mathematics or Physics, plus Irish Ordinary English Language, Mathematics, Biology and Chemistry with a minimum grade of C3, or Irish Higher English Language and Mathematics with a minimum grade of D2

International Baccalaureate Diploma Programme

120 UCAS tariff points, with higher level biology and chemistry at Grade 6.

English language requirements for international applicants

- The minimum requirement for this course is Academic IELTS 7.0 with no band score less than 6.5. This is a standard tariff for the majority of Medicine-related courses offered in the UK.
- Trinity ISE: Pass at level III also meets this requirement for Tier 4 visa purposes.
- All short-listed candidates will be invited to attend an Orientation Day

Additional entry requirements:

- Criminal records check (DBS)
- Health checks

Applicants must be immune to mumps, measles, German measles (rubella), chicken pox and tuberculosis or have been immunised as such to be accepted onto the course

Other

All short-listed candidates will be invited to an Orientation Day. If you do not meet the entry requirements, you may be offered an alternative course.

Personal statements will be reviewed to ensure that successful applicants demonstrate appropriate values including compassion, empathy, honesty, respect and responsible conduct.

The University of Wolverhampton has a strong widening participation agenda, so we are particularly interested in applicants from students who come from groups who are currently under-represented in healthcare professions.

Students who may wish to apply for entry to the third year of the MChB programme at the University of Birmingham *must* be a State School student, or a student who has done their GCSEs at a State School) and *must also* satisfy at least TWO of the following additional widening participation criteria:

- Home postcode with low levels of progression to higher educations (POLAR3 or 4 quintiles 1-2)
- Be in the first generation of their immediate family to attend HE
- Have an annual household income that is below the national average
- Have experienced significant extenuating circumstances that has had a detrimental impact on academic attainment
- Have a disability and be in receipt of a personal independence payment
- Be a young carer
- Be estranged from parents or guardians
- Had experience of public care

Distinctive Features of the Course:

Medical Science & Clinical Practice is a new innovative, multi-disciplinary course which is designed to encourage students from a wide range of different backgrounds to pursue a career in Medicine or one of the many Healthcare related disciplines.

The course itself has a strong clinical focus and uses case-based learning and team-based learning to develop transferable skills, alongside traditional academic skills, with an emphasis on disease processes, pathology, anatomy and physiology and evidence based medicine. The course structure mirrors the MBChB curriculum, and has been designed in partnership with the University of Birmingham Medical School. During this course, students will be exposed to a wide range of healthcare professionals from the start, with integrated placement opportunities built into the curriculum: these range from time spent with general practitioners and nurses to shadowing the work of consultants and clinical scientists, all of whom play a crucial role in keeping healthcare services running. The University of Wolverhampton brands itself as" The University of Opportunity", and this course specifically fits with our widening participation agenda, and aims to increase the range of future career options for students from under-represented groups: The workforce of the future will depend upon such individuals and this course provides the ideal opportunity for our students to become reflective, effective and highly knowledgeable practitioners in their chosen field of healthcare, who are capable of meeting the needs to their communities.

Educational Aims of the Course:

This course will provide you with the requisite skills to pursue a career in Medicine or a related healthcare discipline, and will provide you with a range of transferrable skills, allowing you to develop as a reflective practitioner in the ever changing world of healthcare. You will gain a great deal of underpinning knowledge, but will also develop an appreciation of clinical skills and disease processes during your studies. At the end, you may wish to further your career aspirations, by applying to a post-graduate entry Medicine course, or you may wish to become a Physicians Associate or enter the Scientist Training Programme. With the increasing demands placed upon healthcare services, a degree in Medical Science & Clinical Practice will place you in an excellent position to contribute to improving the health of our communities.

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September

Major Source of Funding:

Office for Students (OFS)

Tuition Fees:

Tuition fees are reviewed on an annual basis. The fees applicable to a particular academic year will be published on the University website.

Year	Status	Mode	Amount
2020/1	Н	Full Time / Sandwich	£9250.00
2020/1	Overseas	Full Time / Sandwich	£12250.00

PSRB:

None

Course Structure:

September (Full-time)

Part time students study alongside full time students. However, they do not study more than 80 credits in each academic calendar year.

Year 1

Full time and Sandwich Undergraduate Honours students normally study 120 credits per academic year; 60 credits semester 1 and 60 credits semester 2.

Module	Title	Credits	Period	Туре
4BM030	Biology of Disease 1	20	SEM1	Core
4HW083	Health and Wellbeing	20	SEM1	Core
4HW084	Patient Safety and Quality	10	SEM1	Core
4BM034	Professional & Study Skills	10	SEM1	Core
4BM031	Biology of Disease 2	20	SEM2	Core
4BM032	Clinical Investigation of Disease	10	SEM2	Core
4BM033	Pathology & Integrated Physiology	10	SEM2	Core
4HW085	Patient and Population Centred Care 1	20	SEM2	Core

September (Full-time)

Part time students study alongside full time students. However, they do not study more than 80 credits in each academic calendar year.

Year 2

Full time and Sandwich Undergraduate Honours students normally study 120 credits per academic year; 60 credits semester 1 and 60 credits semester 2.

Module	Title	Credits	Period	Type
5BM063	Further Biology of Disease 1	20	SEM1	Core
5BM065	Growth & Nutrition	20	SEM1	Core
5HW074	Healthcare Technology and Innovation	10	SEM1	Core
5BM068	Professional & Study Skills 2	10	SEM1	Core
5BM064	Further Biology of Disease 2	20	SEM2	Core
5BM066	Infection, Immunity & Genomic Medicine	10	SEM2	Core
5BM067	Pathology & Integrated Physiology 2	10	SEM2	Core
5HW075	Patient and Population Centred Care 2	20	SEM2	Core

September (Full-time)

Part time students study alongside full time students. However, they do not study more than 80 credits in each academic calendar year.

Year 3

Full time and Sandwich Undergraduate Honours students normally study 120 credits per academic year; 60 credits semester 1 and 60 credits semester 2.

Module	Title	Credits	Period	Type
6HW139	Audit and Service Improvement	10	SEM1	Core
6HW140	Research Skills and Project Management	10	SEM1	Core
6HW141	Healthcare Project	40	SEM2	Core
6HW142	Clinical Practice and Placement	60	YEAR	Core

Please note: Optional modules might not run every year, the course team will decide on an annual basis which options will be running, based on student demand and academic factors, to create the best learning experience.

Learning, Teaching and Assessment

Academic Regulations Exemption:

Section 1.3.1 - Exemption from the standard University Academic Framework allowing for the use of 10 credit taught modules at Level 4, Level 5 & Level 6 in order to align curricula with the postgraduate MBChB programme at the University of Birmingham for progression purposes.

Section 4.3.5 - Exemption in accordance with Professional Body (GMC) requirements not to permit replacement modules for repeats (Level 4 and Level 5 modules can include additional third attempts).

Section 4.4.3 - Exemption in accordance with Professional Body (GMC) requirements. Compensation will not be permitted for any level of study as follows;

4BM030 Biology of Disease 1 (20 credits)

4BM031 Biology of Disease 2 (20 credits)

4BM032 Clinical Investigation of Disease (10 credits)

4BM033 Pathology & Integrated Physiology 1 (10 credits)

4BM034 Professional & Study Skills 1 (10 credits)

4HW083 Health & Wellbeing (20 credits)

4HW084 Patient Safety & Quality (10 credits)

4HW085 Patient & Population Centred Care 1 (20 credits)

5BM063 Further Biology of Disease 1 (20 credits)

5BM064 Further Biology of Disease 2 (20 credits)

5BM065 Growth & Nutrition (20 credits)

5BM066 Infection, Immunity & Genomic Medicine (10 credits)

5BM067 Pathology & Integrated Physiology 2 (10 credits)

5BM068 Professional & Study Skills 2 (10 credits)

5HW074 Healthcare Technology & Innovation (10 credits)

5HW075 Patient & Population Centred Care 2 (20 credits)

6HW139 Audit & Service Improvement (10 credits)

6HW140 Research Skills & Project Management (10 credits)

6HW141 Healthcare Project (40 credits)

6HW142 Clinical Practice & Placement (60 credits).

Effective date: September 2018.

Reference Points:

Quality Code - Part A: Setting and Maintaining Academic Standards. Including:

Qualifications Frameworks

Characteristics Statements

Credit Frameworks

Subject Benchmark Statements

Quality Code - Part B: Assuring and Enhancing Academic Quality

University Policies and Regulations

Equality Act (2010)

Subject Benchmark Statement: Medicine http://www.qaa.ac.uk/en/Publications/Documents/Subject-benchmark-statement-Medicine.pdf

General Medical Council Guidelines

https://www.gmc-uk.org/education/standards-guidance-and-curricula/standards-and-outcomes

Learning Outcomes:

CertHE Course Learning Outcome 1 (CHECLO1)

Demonstrate knowledge of the underlying concepts and principles associated with medical science, and an ability to evaluate and interpret these within the context of medical science.

CertHE Course Learning Outcome 2 (CHECLO2)

Demonstrate an ability to present, evaluate and interpret qualitative and quantitative data, in order to develop lines of argument and make sound judgements in accordance with the basic theories and concepts of medical science.

CertHE Course Learning Outcome 3 (CHECLO3)

Evaluate the appropriateness of different approaches to solving problems related to medical science.

CertHE Course Learning Outcome 4 (CHECLO4)

Communicate the results of your study/work accurately and reliably, and with structured and coherent arguments.

CertHE Course Learning Outcome 5 (CHECLO5)

Demonstrate the qualities and transferable skills necessary for employment requiring the exercise of some personal responsibility.

DipHE Course Learning Outcome 1 (DHECLO1)

Demonstrate knowledge and critical understanding of the well-established principles of medical science and clinical practice, and of the way in which those principles have developed with an understanding of the limits of your knowledge, and how this influences analyses and interpretations based on that knowledge.

DipHE Course Learning Outcome 2 (DHECLO2)

Demonstrate the ability to apply underlying concepts and principles outside the context in which they were first studied, including, where appropriate, the application of those principles in an employment context.

DipHE Course Learning Outcome 3 (DHECLO3)

Demonstrate knowledge of the main methods of enquiry relevant to medical science and clinical practice, and demonstrate your ability to evaluate critically the appropriateness of different approaches to solving relevant problems.

DipHE Course Learning Outcome 4 (DHECLO4)

Use a range of established techniques to initiate and undertake critical analysis of information, and to propose solutions to problems arising from that analysis.

DipHE Course Learning Outcome 5 (DHECLO5)

Effectively communicate information, arguments and analysis in a variety of forms to specialist and non-specialist audiences, and deploy key techniques of the discipline effectively.

DipHE Course Learning Outcome 6 (DHECLO6)

Demonstrate the qualities and transferable skills necessary for employment, requiring the exercise of personal responsibility and decision-making and undertake further training, developing existing skills and acquire new competences that will enable you to assume significant responsibility within organisations.

Ordinary Degree Course Learning Outcome 1 (ORDCLO1)

Demonstrate a systematic understanding of key aspects of medical science & clinical practice, including acquisition of coherent and detailed knowledge, at least some of which is at, or informed by, the forefront of defined aspects of a discipline with an appreciation of the uncertainty, ambiguity and limits of knowledge.

Ordinary Degree Course Learning Outcome 2 (ORDCLO2)

Demonstrate an ability to deploy accurately established techniques of analysis and enquiry within medical science & clinical practice and apply the methods and techniques that they have learned to review, consolidate, extend and apply your knowledge and understanding, and to initiate and carry out projects.

Ordinary Degree Course Learning Outcome 3 (ORDCLO3)

Demonstrate conceptual understanding that enables the student: (a) to devise and sustain arguments, and/or to solve problems, using ideas and techniques, some of which are at the forefront of a discipline (b) to describe and comment upon particular aspects of current research, or equivalent advanced scholarship, in the discipline.

Ordinary Degree Course Learning Outcome 4 (ORDCLO4)

Demonstrate the ability to manage your own learning, and to make use of scholarly reviews and primary sources (for example, refereed research articles and/or original materials appropriate to medical science & clinical practice) and communicate information, ideas, problems and solutions to both specialist and non-specialist audiences.

Ordinary Degree Course Learning Outcome 5 (ORDCLO5)

Critically evaluate arguments, assumptions, abstract concepts and data (that may be incomplete), to make judgements, and to frame appropriate questions to achieve a solution - or identify a range of solutions - to a problem.

Ordinary Degree Course Learning Outcome 6 (ORDCLO6)

Demonstrate the qualities and transferable skills necessary for employment requiring: (a) the exercise of initiative and personal responsibility (b) the exercise of initiative and personal responsibility (c) decision-making in complex and unpredictable contexts (d) the learning ability needed to undertake appropriate further training of a professional or equivalent nature.

Honours Degree Course Learning Outcome 1 (DEGCLO1)

Demonstrate knowledge and critical understanding of the principles underpinning effective learning and teaching, the role of information technology, effective communication and doctor / patient relationships.

Honours Degree Course Learning Outcome 2 (DEGCLO2)

Demonstrate knowledge of the scientific disciplines fundamental to the study of medicine and clinical practice, the causes and mechanisms of disease and the principles of therapeutic intervention.

Use a range of established techniques to initiate and undertake critical analysis of information, and to propose solutions to problems arising from an agreed range of clinical problems including the investigative, preventative, and therapeutic actions available for dealing with them, the ethical and legal issues relating to the practice of medicine, plus how the best standards of patient care rely on the optimal organisation and management of healthcare provision.

Honours Degree Course Learning Outcome 4 (DEGCLO4)

Demonstrate the educational skills and attitudes required by the medical practitioner in your roles as learner and teacher and show aptitude in the use of computer and information technology that will support clinical practice and continuing education.

Honours Degree Course Learning Outcome 5 (DEGCLO5)

Demonstrate a commitment to the advancement of knowledge in medicine and a level of understanding and skill in research processes that enables analysis and critical interpretation of published research and the design and implementation of small scale research projects.

Honours Degree Course Learning Outcome 6 (DEGCLO6)

Demonstrate the attitudes and interpersonal / communication skills required by the medical practitioner in order to maximise the effectiveness of doctor-patient relationships and of professional and inter-professional team working and be aware of threats to the health of the doctor presented by clinical practice and effective strategies for risk reduction.

Honours Degree Course Learning Outcome 7 (DEGCLO7)

Demonstrate proficiency and sensitivity in working with patients and relatives to elicit and record an accurate patient history and in undertaking an appropriate physical and/or mental assessment.

Overview of Assessment:

Module	Title	Course Learning Outcomes
4BM030	Biology of Disease 1	CHECLO1, CHECLO2, CHECLO3, CHECLO4
4BM031	Biology of Disease 2	CHECLO1, CHECLO2, CHECLO3, CHECLO4
4BM032	Clinical Investigation of Disease	CHECLO1, CHECLO2, CHECLO3, CHECLO4, CHECLO5
4BM033	Pathology & Integrated Physiology	CHECLO1, CHECLO2, CHECLO3, CHECLO4
4BM034	Professional & Study Skills	CHECLO1, CHECLO2, CHECLO3, CHECLO4, CHECLO5
4HW083	Health and Wellbeing	CHECLO1, CHECLO2, CHECLO3, CHECLO4, CHECLO5
4HW084	Patient Safety and Quality	CHECLO1, CHECLO2, CHECLO3, CHECLO4, CHECLO5
4HW085	Patient and Population Centred Care 1	CHECLO1, CHECLO2, CHECLO3, CHECLO4, CHECLO5
5BM063	Further Biology of Disease 1	DHECLO1, DHECLO2, DHECLO3, DHECLO4
5BM064	Further Biology of Disease 2	DHECLO1, DHECLO2, DHECLO3, DHECLO4
5BM065	Growth & Nutrition	DHECLO1, DHECLO2, DHECLO3, DHECLO4
5BM066	Infection, Immunity & Genomic Medicine	DHECLO1, DHECLO2, DHECLO3, DHECLO4, DHECLO5
5BM067	Pathology & Integrated Physiology 2	DHECLO1, DHECLO2, DHECLO3, DHECLO4, DHECLO5
5BM068	Professional & Study Skills 2	DHECLO1, DHECLO2, DHECLO3, DHECLO4, DHECLO5, DHECLO6
5HW074	Healthcare Technology and Innovation	DHECLO1, DHECLO2, DHECLO3, DHECLO4, DHECLO5, DHECLO6
5HW075	Patient and Population Centred Care 2	DHECLO1, DHECLO2, DHECLO3, DHECLO4, DHECLO5, DHECLO6
6HW139	Audit and Service Improvement	DEGCLO1, DEGCLO3, DEGCLO4, DEGCLO5, DEGCLO6, ORDCLO1, ORDCLO2, ORDCLO3, ORDCLO5, ORDCLO6
6HW140	Research Skills and Project Management	DEGCLO1, DEGCLO3, DEGCLO4, DEGCLO5, ORDCLO1, ORDCLO2, ORDCLO3, ORDCLO4, ORDCLO5, ORDCLO6
6HW141	Healthcare Project	DEGCLO1, DEGCLO2, DEGCLO3, DEGCLO5, DEGCLO6, DEGCLO7, ORDCLO1, ORDCLO2, ORDCLO3, ORDCLO4, ORDCLO5
6HW142	Clinical Practice and Placement	DEGCLO1, DEGCLO2, DEGCLO3, DEGCLO6, DEGCLO7, ORDCLO6

Teaching, Learning and Assessment:

Opportunities to achieve these learning outcomes may be provided by the following methods:

- Lectures
- Tutorials (small group)
- Tutorials (one-to-one)
- Seminars
- Laboratory sessions
- Self-directed study
- Workshops
- Problem-based learning
- Case studies
- Structured laboratory exercises

- Individual or group investigative practical exercises
- Individual and group research project investigations
- Electronic/Computer-based learning
- Group work
- · Individual structured assignment-based learning
- Directed study
- Demonstrations
- Literature appraisal
- Work-based learning and / or placements
- Reflective practice (including personal development plans)
- Project work
- Portfolio building
- Data interpretation
- Essay writing
- Presentations (oral/poster)

These learning activities will provide the Graduate with skills which will prepare them for their future role in the ever changing workplace.

Assessment Methods

In order to demonstrate achievement of the learning outcomes students may experience the following types of assessment:

- formal written examinations including essay, problem solving, short answer or multiple choice questions including unseen examinations and open book examinations
- computer based assessment
- essays and other forms of written report
- evaluation of primary literature sources and literature review (including systematic review)
- case studies
- demonstrations of ICT competencies
- time-constrained calculation exercises
- problem solving exercises
- problem based learning
- summative assessment of required practical skills
- personal and professional development portfolios (PACE files).
- individual and small group presentations (oral and poster presentations including assessment of use of ICT in supporting professional presentation)
- oral examination (through questioning on presentations, case studies/presentations)
- structured assessment of research project planning, execution and report (written and oral presentation).
- · laboratory reports
- · project reports
- analytical and data interpretation exercises
- · learning logs, diaries and personal development plans
- Where appropriate assessments may include formative assessment and elements of self and peer, as well as tutor assessment.
- Objective Structured Healthcare Examination assessing key skills related practice such as clinical communication, practical observations, health promotion / negotiation, and data interpretation
- Portfolio
- reflective report on professional practice

demonstration of professional conduct

Assessment Methods:

At the University of Wolverhampton, a variety of modes of assessment will be used to support and test your learning and progress and to help you develop capabilities that are valued beyond your University studies and into your working life. Your course may include a variety of assessment activities:

Written examinations (including online examinations, open and closed book examinations and quizzes)
Coursework (for example, essays, reports, portfolios, project proposals and briefs, CVs, poster presentation)
Practical (for example, oral and video presentations, laboratory work, performances, practical skills assessment)

In the final year of your undergraduate degree, and at the end of your postgraduate degree, you are likely to be expected to write an extended piece of work or research, such as a dissertation or a practice-based piece of research.

Student Support:

General University support:

<u>University Learning Centres</u> are the key source of academic information for students. Learning Centres provide physical library resources (books, journal, DVDs etc.) and offer a range of study areas to allow students to study in the environment that suit them best: Social areas, quiet and silent areas. Learning Centres also provide access to wide range of online information sources, including eBooks, e-Journals and subject databases.

Learning Centres also provide students with academic skills support via the <u>Skills for Learning programme</u>. Students on campus can attend workshops or ask for one-to-one help on a range of skills such as academic writing and referencing. Students can access a range of online skills material at: www.wlv.ac.uk/lib/skills

The <u>University Student Support website</u> offers advice on a variety of matters (careers, counselling, student union advice, etc.) Students can also access these services by booking appointment with the SU, careers, counselling services, etc.

Course Specific Support

As the course is focussed on healthcare issues, there is the possibility that students may be effected by issues that they experience on placement (such as suffering or death of patients). Students on placements will have educational supervisors whose role will encompass the support for emotional as well as academic development. The course will also have clinically qualified staff, who understand the rigours and reflections of healthcare practice. One of these qualified staff will act as senior welfare tutor for this BSc course to whom issues can be raised that are not resolved on placements.

All students will have an identified personal tutor who will remain with them throughout the length of their course. This tutor will be the first point of contact for any course-related or pastoral issues.

Employability in the Curriculum:

The course in Medical Science and Clinical Practice will provide you with the essential knowledge and skills to support a career choice within a wide variety of medicine-related careers.

The BSc (Hons) Medical Science and Clinical Practice award places you in a strong position to apply for a graduate fast-track route into medicine. It also provides you with the requisite skills to enter a Physicians Associate Programme, if you remain interested in pursuing a clinical career.

Some graduates may choose careers in other fields. Medical science is a continually changing, dynamic field, with long-term career prospects including management, research, education and specialised laboratory work.

Medical scientists working for the Medical Research Council carry out research in the medical and biological sciences to help preserve health and combat and control disease.

Medical scientists may also be employed in a variety of roles including the veterinary service, the Health and Safety Executive, university and forensic laboratories, pharmaceutical and product manufacturers, Her Majesty's Forces and various government departments.

There are also opportunities for medical scientists to use their training and skills in healthcare posts and projects around the world. They are involved in voluntary work in developing countries on behalf of

international bodies such as the World Health Organisation and the Voluntary Service Overseas.

An award in Medical Science & Clinical Practice represents an opportunity to gain and apply scientific and clinical knowledge, and provides students with a range of skills and an appropriate qualification that can be transferred all over the UK and worldwide.

The University of Wolverhampton Enterprise and Employability Award is embedded into the curriculum with students completing the bronze, silver and gold awards in order to gain recognition for their skills and experience.



THE UNIVERSITY OF OPPORTUNITY