Course Specification

Published Date:	31-May-2019
Produced By:	Oliver Jones
Status:	Validated

Core Information

Awarding Body / Institution:	University of Wolverhampton		
School / Institute:	Wolverhampton School of Sciences		
Course Code(s):	BM007S01UV	Full-time	2 Years
UCAS Code:	83H7		
Course Title:	HND Biomedical Science		
Hierarchy of Awards:	Higher National Diploma Biomedical Science awarded by the University of Wolverhampton Certificate of Higher Education Biomedical Science awarded by the University of Wolverhampton University Statement of Credit University Statement of Credit		
Language of Study:	English		
Date of DAG approval:	21/Jun/2017		
Last Review:	2018/9		
Course Specification valid from:	2012/3		
Course Specification valid to:	2024/5		

Academic Staff

Course Leader:	Dr Martin Khechara
Head of Department:	Dr Gillian Conde

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

- GCSE English and Maths at grade C or above or Key Skills Communication and Application of Number at level 2.

AND

- 80 -140 points including a minimum of 60 points from at least one full 6-unit award
- Post-16 qualifications should include a science subject at A2 Level.

OR

- Access to Higher Education Diploma requires candidates to accumulate 60 credits, at least 45 of which are at Level 3. To study HND Biomedical Science at the University of Wolverhampton, 18 level 3 credits must be in science and achieved with a minimum pass. If you've got other qualifications or relevant experience, check out the UCAS tariff conversion table via the UCAS website: www.ucas.com

International student language requirements and application guidance can be found at www.wlv.ac.uk/international/apply

Other Requirements

Those who do not meet the entry requirements may be offered an alternative course.

Distinctive Features of the Course:

This course involves the study of a variety of biomedical science disciplines and takes place at an institution where fellow students are undertaking programmes in other disciplines and vocational courses in a wide variety of medicine-related subjects. As such students will mix and learn with students with a wide interest and experience of medically-related subjects and disciplines, providing the opportunity for cross-subject interaction and learning.

Educational Aims of the Course:

This course aims to develop you to become a biomedical scientist who has a broad based education and training in the areas of science that underpin the disciplines associated with biomedical science. It will develop an awareness of the contributions of biomedical science to improvements in preventative medicine, diagnosis, and patient care and treatment; provide a sound educational foundation on which the student can build, by further study, at any stage of their future career.

The course is structured to allow you to develop and succeed, regardless of your academic background and experience.

You will experience progressive, coherent and challenging learning opportunities underpinned by research, scholarly activity and appropriate staff development that will allow you to demonstrate clearly defined subject specific and generic academic outcomes and to develop a range of key skills for subsequent employment

and/or further study.

Intakes:

September

Major Source of Funding:

HE FUNDING COUNCIL FOR ENGLAND (HEFCE)

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
2017/8	H	Full Time	£8250.00
2017/8	EU	Full Time	£8250.00
2017/8	Overseas	Full Time	£11475.00
2018/9	H	Full Time	£8250.00
2018/9	Overseas	Full Time	£11700.00
2018/9	EU	Full Time	£8250.00
2019/0	H	Full Time	£8400
2019/0	Overseas	Full Time	£12000
2019/0	EU	Full Time	£8400

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

Module	Title	Credits	Period	Type
4BC005	Biochemistry for Life Science	20	SEM1	Core
4BM016	Human Form & Function	20	SEM1	Core
4BM026	Biomedical Science Skills	20	SEM1	Core
4BM017	Biomedical Basis of Disease	20	SEM2	Core
4BM024	Introduction to Microbiology	20	SEM2	Core
4BM027	Cell Biology	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

Module	Title	Credits	Period	Type
5BM045	Principles of Disease Investigation in Haematology	20	SEM1	Core
5BM047	Principles of disease investigation in medical microbiology	20	SEM1	Core
5BM069	Principles of Disease Investigation in Immunology	20	SEM1	Core
5BM043	Principles of Disease Investigation in Cellular Pathology	20	SEM2	Core
5BM044	Principles of Disease Investigation in Genetics and Genomics	20	SEM2	Core
5BM062	Principles of disease investigation in clinical biochemistry	20	SEM2	Core

Continuing students will follow the programme indicated below:

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

Module	Title	Credits	Period	Type
5BM004	Biology and Investigation of Disease 1	20	SEM1	Core
5BM005	Biomedical Science Practicals 1	20	SEM1	Core
5BM009	Integrated Physiology	20	SEM1	Core
5BM006	Biology and Investigation of Disease 2	20	SEM2	Core
5BM008	Molecular Pathology	20	SEM2	Core
5BM016	Vocational Assignment Module	20	SEM2	Core

Learning, Teaching and Assessment

Academic Regulations Exemption:

None

Reference Points:

This course has been developed with reference to the Code of Practice of the QAA for the assurance of academic quality and standards in higher education, the QAA Subject Benchmark Statement for 'Biomedical Science', 2007 and the Specification for the HND Biomedical Science (Edexcel).

The course also makes reference to the Equality Act (2010) and the assessment and student guidance information of the University of Wolverhampton.

Learning Outcomes:

HNC Course Learning Outcome 1 (HNCCLO1)

"Demonstrate knowledge of the underlying concepts and principles associated with your area(s) of study, and an ability to evaluate and interpret these within the context of that area of study"

HNC Course Learning Outcome 2 (HNCCLO2)

"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 basic theories and concepts of your subject(s) of study."

HNC Course Learning Outcome 3 (HNCCLO3)

Evaluate the appropriateness of different approaches to solving problems related to your area(s) of study and/or work

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HNC Course Learning Outcome 4 (HNCCLO4)

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

HNC Course Learning Outcome 5 (HNCCLO5)

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

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HND Course Learning Outcome 1 (HNDCLO1)

"Demonstrate knowledge of the underlying concepts and principles associated with your area(s) of study, and an ability to evaluate and interpret these within the context of that area of study"

HND Course Learning Outcome 2 (HNDCLO2)

"Demonstrate scientific, intellectual and practical skills to successfully plan and carry out laboratory investigations in biomedical science and evaluate biomedical data."

HND Course Learning Outcome 3 (HNDCLO3)

"Exercise professionalism, personal responsibility and decision-making as needed for employment and in

situations requiring the exercise of professionalism, personal responsibility and decision-making."

Overview of Assessment:

Module	Title	Course Learning Outcomes
4BC005	Biochemistry for Life Science	HNCCLO1, HNCCLO2, HNCCLO3, HNCCLO4, HNCCLO5
4BM016	Human Form & Function	HNCCLO1, HNCCLO3, HNCCLO5
4BM017	Biomedical Basis of Disease	HNCCLO1, HNCCLO3, HNCCLO4, HNCCLO5
4BM024	Introduction to Microbiology	HNCCLO1, HNCCLO2, HNCCLO3, HNCCLO4, HNCCLO5
4BM026	Biomedical Science Skills	HNCCLO2, HNCCLO3, HNCCLO4, HNCCLO5
4BM027	Cell Biology	HNCCLO2, HNCCLO3, HNCCLO4, HNCCLO5
5BM004	Biology and Investigation of Disease 1	HNDCLO1, HNDCLO3
5BM005	Biomedical Science Practicals 1	HNDCLO1, HNDCLO2, HNDCLO3
5BM006	Biology and Investigation of Disease 2	HNDCLO1, HNDCLO3
5BM008	Molecular Pathology	HNDCLO1, HNDCLO3
5BM009	Integrated Physiology	HNDCLO1, HNDCLO3
5BM016	Vocational Assignment Module	HNDCLO1, HNDCLO2, HNDCLO3
5BM043	Principles of Disease Investigation in Cellular Pathology	HNDCLO1, HNDCLO2, HNDCLO3
5BM044	Principles of Disease Investigation in Genetics and Genomics	HNDCLO1, HNDCLO2, HNDCLO3
5BM045	Principles of Disease Investigation in Haematology	HNDCLO1, HNDCLO2, HNDCLO3
5BM047	Principles of disease investigation in medical microbiology	HNDCLO1, HNDCLO2, HNDCLO3
5BM062	Principles of disease investigation in clinical biochemistry	HNDCLO1, HNDCLO2, HNDCLO3
5BM069	Principles of Disease Investigation in Immunology	HNDCLO1, HNDCLO2, HNDCLO3

Teaching, Learning and Assessment:

Type of Learning Activity

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

1. Lectures
2. Tutorials (small group)
3. Tutorials (one-to-one)
4. Seminars
5. Laboratory sessions
6. Self-directed study
7. Workshops
8. Problem-based learning
9. Case studies
10. Structured laboratory exercises
11. Individual or group investigative practical exercises
12. Electronic/Computer-based learning
13. Supported learning using the University VLE (CANVAS) for information, synchronous and asynchronous communications
14. Group work
15. Individual structured assignment-based learning

16. Directed study
17. Demonstrations
18. Literature appraisal
19. Work-based learning and / or placements
20. Reflective practice (including personal development plans)
21. Project work
22. Portfolio building

These learning activities will provide the Graduate with skills which will prepare them for their future role in the ever changing workplace. Engagement in the above learning activities will produce graduates who are digitally literate, knowledgeable and enterprising, and will be useful and productive members of society (Global Citizens).

Learning and Teaching Methods:

This data indicates the proportion of time in each year of study that students can expect to engage in the following activities (expressed as a percentage for each level).

Level	Teaching	Independent	Placement
4	24	76	0
5	20	64	17

Assessment Methods:

This data indicates the proportion of summative assessment in each year of study that will derive from the following: (expressed as a percentage for each level).

Level	Written Exams	Practical Exams	Coursework
4	47	7	47
5	37	17	47

Student Support:

Support for learning is provided within classroom sessions and tutorials. This is supplemented with material and exercises mounted on VLE, and the opportunity to consult with fellow students and members of staff through VLE, email and SAMS appointments. Staff will provide formative assessment opportunities and feedback on performance on modules where possible to inform students of their progress and indicate areas for improvement.

Academic study skills delivery and support are to a large degree embedded within module content and exercises, however, specific modules are included to cover generic study skills as well as subject specific areas such as health and safety, evidence based professional practice, regulatory procedures and ethics.

Students are allocated a personal tutor to offer support in their personal development and academic achievement. Module leaders and demonstrators will provide advice on module content, learning activities and assessment tasks. For more general enquires the School of Applied Science (FSE) student support team is available.

Academic study skills are embedded in the course, with particular focus in level 4. Students have access to a hub of learning resources introducing essential study skills and are shown how to access to the University's Skills for Learning website. By production of an electronic Eportfolio, students evidence application of information retrieval, scientific writing and referencing, statistical analysis, and communication and learning skills.

Research skills are developed throughout the course in module learning activities. Students are required to engage in the use of electronic resources to search for subject specific information, carry out data interpretation exercises and problem-based learning, and produce an independent research project for completion of summative assessment tasks.

Students with specific needs can access additional support from staff through the Student Enabling Centre or the FSE Equality & Special Needs Adviser. In addition, to the campus-based Learning Centres which provide special support, the University provides a range of support for students to develop the skills required for successful academic study. These include:

Infobites

Academic Writing Skills

Referencing

EndNote

PebblePad

IT services self-help guides

Study skills

Skills for learning

Assist

Within the induction programme there are dedicated face-to-face sessions on study skills, referencing and details on how to contact and access the above support services. Students are introduced to scientific writing skills in workshops during induction and this is also incorporated into all modules at all levels of the course where appropriate. Students will also be informed about the range of electronic study skills support available to them on a regular basis both within the induction period and in the delivery of each module.

Employability in the Curriculum:

HND qualifications are widely recognised in the scientific establishment as vocational courses which prepare students for vocational employment. As such, the skills provided in the course will provide opportunities in the technical disciplines at technician level.

This course is designed to articulate and progress seamlessly to the appropriate BSc (Hons) degree.

Many students who initially begin study for HND Biomedical Science wish to continue with their studies to degree level. If you are currently studying HND Biomedical Science you will have the opportunity to transfer to BSc (Hons) Biomedical Science as follows:

either:

At the end of the first year of HND Biomedical Science, if you have achieved 120 credits, instead of proceeding to the second year of HND Biomedical Science, you may transfer to the second year of the BSc (Hons) Biomedical Science degree course.

This will allow application for workbased placements associated with the BSc (Hons) Applied Biomedical Science course, and subsequent transfer if successful in gaining a placement.