

<script>dataLayer.push({'course_title':'DN440 Biomedical, Health & Life Sciences (BHS1)'});</script>

<h1 class="pageTitle">DN440 Biomedical, Health & Life Sciences (BHS1) </h1>
<h2> </h2>

If human health and disease research interests you, this exciting new degree will provide you with the fundamental knowledge and skills you require.

<div style="text-align:center;padding-top:10px;"><p>Curricular information is subject to change</p></div>

<div class="panel-group" id="accordion" role="tablist" aria-multiselectable="true">
 <p class="h4style panel-open-all">
 Show/hide content
 </p>

Vision and Values

<p>The Biomedical Health and Life Science multi-disciplinary BSc honours degree is designed to offer a unique environment to students in which they will become multi-disciplinary scientists at the interface of Biomedical Science and Medicine in order to translate scientific knowledge and discoveries to impact on global human health and disease.</p>

<p>The programme values and therefore encourages the development of an enquiring, collaborative, critical and analytical approach to learning that will engender an intellectual and professional approach to the understanding of the complexity of human health and disease.</p>

<p>The programme offers a unique learning environment at both an academic research and hospital setting delivered by internationally recognised research active scientists and clinicians. In addition to the traditional lecturing approach the programme promotes the use of small group learning, journal club and ethical review style discussions to develop the critical thinking and reflection of the scientific approach and impact on patient outcomes and society as scientific knowledge is brought into clinical utility. The research project places an emphasis on clinically relevant research questions where the student also gains a respect for working with clinical material and an understanding of the steps to bring these ideas into clinical use. The programme utilises a blended approach to assessment including project work and presentations.</p>

Subject Description

Programme Outcomes

- 1 - Demonstrate a knowledge of body functions in health and disease underpinned by molecular, biochemical and pathobiological processes.
- 2 - Work in a multi-disciplinary scientific and clinical team environment with an appreciation of what each discipline can bring to the integration and transfer of knowledge to impact on patient outcomes.
- 3 - Undertake a professional approach and respectfulness in their interaction with patient material and research questions.
- 4 - Apply scientific methodology to identify solutions to clinically relevant questions in the areas of prevention, diagnosis and interventions of human disease.
- 5 - Implement a professional and passionate approach to lifelong, self-directed and collaborative learning throughout their careers.
- 6 - Appreciate the importance of scientific enquiry and how to translate scientific knowledge to clinical utility with a vision to making an impact on global health and disease.
- 7 - Practise as a scientist and implement the scientific process of generating clinically relevant hypotheses as well as design, plan, conduct and evaluate the outcome of scientific experiments.
- 8 - Think critically about what they learn and their research findings.
- 9 - Impart their knowledge and analysis through written and oral media to audiences ranging from scientists, clinicians, patients and the general lay public.
- 10 - Organise their time and activities to deliver specific planned objectives.
- 11 - Position themselves to contribute to the path of discovery to enhance global health.
- 12 - Act as responsible global citizens, including a commitment to social and cultural diversity, equity and ethics.

Non-standard Progression Requirements

Additional Standards for Continuation

Understanding your Degree

If human health and disease research interests you, this exciting new degree will provide you with the fundamental knowledge and skills you require.

This new degree will appeal to anyone who has a keen interest in science and who wishes to study the effect modern diseases have on the normal function of the healthy human body. You will also learn how scientifically driven investigation can advance our knowledge of disease treatment and prevention.

The programme provides you with a wide breadth of education and training across a range of modern medical and biological sciences and focuses on the application of scientific developments in the prevention and alleviation of disease.

Mapping your Degree

Stage 1 in the programme involves a number of modules concerned with modern basic biomedical laboratory sciences. The subject areas in the core modules of this stage will include relevant aspects of anatomy, biochemistry, biophysics, chemistry, cytology, histology and physiology.

Subsequent study of disease processes will enable you to proceed to further learning about the research-based development of new and more effective means of diagnosing, treating and preventing illness. The flexible modular structure of this programme will allow you to specialise in areas of investigative biomedical science that especially interest you, particularly in the later stages of the degree course.

International Study Opportunities

You may apply to study abroad for either a semester or a year through the Erasmus programme or on a non-EU exchange. UCD has over 200 Erasmus partners in Europe and an increasing number of non-EU exchange agreements with universities in the USA, Canada, Australia, Japan and elsewhere.

Please visit the Erasmus section by clicking on the International Office link at the top of this page.

Career Opportunities

Typically, graduates will follow scientific careers in biomedical research, undertaking MSc and PhD higher degrees. They also have a high success rate for entry to Graduate Entry to Medicine programmes and pursue opportunities in the pharmaceutical and biotechnology industries, as well as other areas allied to health.

Further Information & Contact Details

UCD Health Sciences Programme Office
Health Sciences Centre (Ground floor)
Belfield, Dublin 4
Tel: +353 1 716 6656
Email: [Web: www.ucd.ie/healthsciences](http://www.ucd.ie/healthsciences)

Major Information by Stage

Stage 1

- Any student who did NOT receive a grade of C3 or better in Chemistry in the Leaving Certificate (or equivalent) examination MUST enrol to the module CHEM00010 Introductory Chemistry but no other students should enrol to that module.

Stage 4

Students undertaking their research project abroad must contact BHLS@ucd.ie

View All Modules

Module ID	Module Title	Trimester	Credits
Stage 1 Core Modules			
		Autumn	5

View All Modules (continued)

Module ID	Module Title	Trimester	Credits
		Autumn	5
		Autumn	5
		Autumn	5
		Autumn	5
		Spring	5
		Spring	5
		Spring	5
		Spring	5
		Spring	5
Stage 1 Options - B)1 OF:

 Students who did NOT receive a grade of C3 or better in Chemistry in the Leaving Certificate (or equivalent) MUST register to the module CHEM00010 Introductory Chemistry.
 All other students should select CHEM10040.			
		Autumn	5
		Autumn	5
Stage 2 Core Modules			
		Autumn	5
		Autumn	5
		Autumn	5
		Autumn	5
		Spring	5
		Spring	5
		Spring	5
Stage 2 Options - A)1 OF:
Select one option module			
		Autumn	5
		Autumn	5
		Autumn	5
		Autumn	5
		Autumn	5
Stage 2 Options - B) 1 OF:
Students that wish to take Respiratory Physiology (PHYS30020) as an option, please contact BHLS@ucd.ie to be manually registered to this module.			
		Spring	5
		Spring	5
		Spring	5
		Spring	5
Stage 2 Options - C)1 OF:
Select one option module			
		Spring	5
		Spring	5
		Spring	5
Stage 3 Core Modules			
		Autumn	5
		Autumn	5
		Autumn	5
		Spring	5
		Spring	5

View All Modules (continued)

Module ID	Module Title	Trimester	Credits
Stage 3 Options - A)3 OF:
If you wish to take both PHYS30190 and GENE30040 as option modules, please contact BHLS@ucd.ie Please note, it is not possible to select BIOC30030, GENE30030 and PHYS30190 as a combination of modules.			
		Spring	5
		Spring	5
		Spring	5
		Spring	5
		Spring	5
		Spring	5
		Spring	5
		Spring	5
Stage 3 Options - B)2OF:
Select two option modules			
		Autumn	5
		Autumn	5
		Autumn	5
		Autumn	5
		Autumn	5
Stage 4 Core Modules			
		Autumn	5
		Autumn	20
Stage 4 Options - B)1 OF:
Select one option module			
		Autumn	5
		Autumn	5
Stage 4 Options - C)6 OF:
Please note if you choose PATH30060 you cannot choose PHAR40040 or BIOC40060. PHAR40040 and BIOC40060 however can both be chosen as option modules.			
		Spring	5
		Spring	5
		Spring	5
		Spring	5
		Spring	5
		Spring	5
		Spring	5
		Spring	5
		Spring	5
		Spring	5
		Spring	5
		Spring	5
		Spring	5
		Spring	5
		Spring	5

Degree GPA and Award Calculation Rules

See the UCD Assessment for further details

Module Weighting Info <a data-toggle="modal" data-target="#hubModal"

href="W_HU_REPORTING.P_DISPLAY_QUERY?p_query=CB-MODAL&p_parameters=1CF76AE4799C0C1ACB48799F5B73AA946F7FE0688DC13562860A955863591E36188D0E02262054126E9E450FEFF8CD96494EA03E0606C91AAEF2C9C0B062D3C5DE9D03DC108FC1D05DEC86A73B3B3FDFDF988B44DBC924B8FF63AC988AA8E45BD72D0C86DB95BFB690B7E193C39E99A291F4B9237BDDE81B742F358540A44CFC0BC324288E5F4A69EA91B8DDF5039B7D9B417927E19F68116D458F7C8225D67D72004140576F53BDC06DF06898A219BE104CC29120D0A93FD399393BDF0178CE58E25FC031668A38824830E8334AEA98AFE50C2036B7D674A39D1BD3A352FA7"><i class="fa fa-info-circle las la-info-circle" style="font-size:20px;color:#007eb5">

		Award		GPA	
Programme	Module Weightings	Rule Description	Description	>=	<=
BHMED004	Stage 4 - 70.00% Stage 3 - 30.00%	Standard Honours Award	First Class Honours	3.68	4.20
			Second Class Honours, Grade 1	3.08	3.67
			Second Class Honours, Grade 2	2.48	3.07
			Pass	2.00	2.47

