



OLLSCOIL NA GAILLIMHÉ  
UNIVERSITY OF GALWAY

Bachelor of Science Degree  
College of Science and Engineering  
2023/2024

# BSc ENVIRONMENTAL SCIENCE

[www.universityofgalway.ie/science-engineering/](http://www.universityofgalway.ie/science-engineering/)

# Overview

Year 1	Year 2	Year 3	Year 4
<b>[60 Credits]</b>	<b>[60 Credits]</b>	<b>[60 Credits]</b>	<b>[60 Credits]</b>
<p>There are 30 credits of Core modules.</p> <p>Choose one of the following options to a value of 30 credits:</p> <ul style="list-style-type: none"> <li>Chemistry</li> <li>Physics</li> </ul> <p>or</p> <ul style="list-style-type: none"> <li>Chemistry/Physics</li> <li>Introductory Psychology I</li> <li>Introductory Psychology II</li> <li>Introduction to Irish Habitats</li> </ul>	<p>There are 60 credits of Core modules.</p>	<p>There are 40 credits of Core modules.</p> <p>Choose Electives to value of 20 credits from the list available.</p>	<p>There are 40 credits of Core modules.</p> <p>Choose Electives to value of 20 credits from the list available.</p>
<p>Module Descriptors for Years 1 to 4 are available at: <a href="https://www.universityofgalway.ie/science-engineering/undergraduateprogrammes/environmental-science.html">https://www.universityofgalway.ie/science-engineering/undergraduateprogrammes/environmental-science.html</a></p>			

Year 1	Year 2	Year 3	Year 4
<b>[Core: 30 credits; Electives: 30 credits]</b>	<b>[Core: 60 credits]</b>	<b>[Core: 40 credits; Electives: 20 credits]</b>	<b>[Core: 40 credits; Electives: 20 credits]</b>
<p><i>Full Year – Semester 1 and Semester 2</i></p> <p>BO101 <b>Biology [15]</b> LW3114 <b>Introduction to Law [5]</b></p> <p><i>Semester 1</i></p> <p>ST2001 <b>Statistics in Data Science I [5]</b></p> <p><i>Semester 2</i></p> <p>EV102 <b>Hot Topics in Environmental Science [5]</b></p>	<p><i>Semester 1</i></p> <p>EV203 <b>Ecological Survey Techniques [5]</b> LW217 <b>Environmental Legislation [5]</b> BPS202 <b>Fundamentals in Aquatic Plant Science[5]</b> MI202 <b>Laboratory Skills in Microbiology I [5]</b></p> <p><i>Semester 2</i></p> <p>EOS2101 <b>Introduction to Fieldskills [5]</b> ZO208 <b>Invertebrate Biology [5]</b> MI203 <b>Laboratory Skills in Microbiology II [5]</b> MI204 <b>Microbes and the Environment [5]</b> BPS203 <b>Plant Diversity, Physiology and Adaptation [5]</b> EOS2102 <b>The Earth: From Core to Crust [10]</b> ZO209 <b>Vertebrate Zoology [5]</b></p>	<p><i>Semester 1</i></p> <p>EV304 <b>Field Course with Environmental Skills [5]</b> ST314 <b>Introduction to Biostatistics [5]</b> MI3101 <b>Microbial Genomics [5]</b> EV307 <b>Nature Conservation &amp; Habitat Management [5]</b> BPS3102 <b>Plant Resources and Ecosystems [5]</b></p> <p><i>Semester 2</i></p> <p>MI322 <b>Environmental Microbiology [5]</b> EV305 <b>Habitat Management Planning [5]</b> LW3124 <b>Legislation for Environmental Scientists [5]</b></p>	<p><i>Full Year – Semester 1 and Semester 2</i></p> <p>EV420 <b>Project [25]</b></p> <p><i>Semester 2</i></p> <p>EV404 <b>Advanced Field Course in Environmental Science [5]</b> EV405 <b>Environmental Impact Assessment [5]</b> EV406 <b>Environmental Science Seminars [5]</b></p>

# Electives

Year 1	Year 2	Year 3	Year 4
<p><b>OPTION 1:</b></p> <p><i>Full Year Semester 1 and Semester 2</i></p> <p>CH101 <b>Chemistry [15]</b> PH101 <b>Physics [15]</b></p>		<p><i>Full Year Semester 1 and Semester 2</i></p> <p>BPS3101 <b>Techniques in Field Ecology and Conservation [5]</b></p> <p><i>Semester 1</i></p> <p>BSS2103 <b>Introduction to Sustainability 1 [5]</b> EOS305 <b>Introduction to Applied Field Hydrology [5]</b> EOS3103 <b>Palaeontology and Evolution [5]</b> PAB3101 <b>Soil Sciences [5]</b> MI324 <b>Immunology and Recombinant Techniques [5]</b> TI2102 <b>Introduction To GIS [10]</b></p> <p><i>Semester 2</i></p> <p>AR347 <b>Palaeoecology - Reconstructing Past Environments [5]</b> BPS3104 <b>Plant Interactions [5]</b> EOS304 <b>Aquatic Geochemistry [5]</b> ZO315 <b>Applied Ecology [5]</b> ZO318 <b>Geographic Information Systems and Biostatistics [5]</b> ZO320 <b>Concepts in Population and Community Ecology [5]</b></p>	<p><i>Full Year Semester 1 and Semester 2</i></p> <p>BPS3101 <b>Techniques in Field Ecology and Conservation [5]</b> ZO418 <b>Phylogenetics &amp; Conservation [5]</b></p> <p><i>Semester 1</i></p> <p>BSS2103 <b>Introduction to Sustainability 1 [5]</b> EOS305 <b>Introduction to Applied Field Hydrology [5]</b> EOS3103 <b>Palaeontology and Evolution [5]</b> EOS402 <b>Global Change [5]</b> EOS418 <b>Applied Field Hydrogeology [5]</b> PAB3101 <b>Soil Sciences [5]</b> PH328 <b>Physics of the Environment I [5]</b> ZO317 <b>Evolutionary Biology [5]</b> ZO417 <b>Marine &amp; Coastal Ecology [5]</b></p> <p><i>Semester 2</i></p> <p>AR347 <b>Palaeoecology - Reconstructing Past Environments [5]</b> BPS3104 <b>Plant Interactions [5]</b> BPS405 <b>Ecology and Conservation Issues [5]</b> EOS4101 <b>Earth Observation and Remote Sensing [5]</b> MI4102 <b>Microbial Ecosystems Services &amp; Systems Biology [5]</b> MI4103 <b>Environmental Biotechnology [5]</b> PH329 <b>Physics of the Environment II [5]</b> TI311 <b>Advanced GIS [5]</b> ZO315 <b>Applied Ecology [5]</b> ZO318 <b>Geographic Information Systems and Biostatistics [5]</b></p>
<p><b>OPTION 2:</b></p> <p><i>Full Year Semester 1 and Semester 2</i></p> <p>CP102 <b>Chemistry/Physics [15]</b></p> <p><b>Semester 1:</b></p> <p>PS122 <b>Introductory Psychology 1 [5]</b></p> <p><i>Semester 2</i></p> <p>EV1101 <b>Introduction to Irish Habitats [5]</b> PS124 <b>Introductory Psychology 2 [5]</b></p>			