Ollscoil na Gaillimhe
University of Galway

Bachelor of Science Degree
College of Science and Engineering
2024/2025

BSc ENVIRONMENTAL SCIENCE

www.universityofgalway.ie/science-engineering/

Overview

Year 1	Year 2	Year 3	Year 4
[60 Credits]	**[60 Credits]**	**[60 Credits]**	**[60 Credits]**
There are 30 credits of Core modules. Choose one of the following options to a value of 30 credits: Chemistry Physics or Chemistry/Physics Introductory Psychology I Introductory Psychology II Introduction to Irish Habitats	There are 60 credits of Core modules.	There are 40 credits of Core modules. Choose Electives to value of 20 credits from the list available.	There are 40 credits of Core modules. Choose Electives to value of 20 credits from the list available.

Module Descriptors for Years 1 to 4 are available at: https://www.universityofgalway.ie/science-engineering/undergraduateprogrammes/bachelorofscienceenvironmentalscience/#course_outline

BSc Environmental Science

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

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Electives

Year 1

OPTION 1:

Full Year Semester 1 and Semester 2

CH101 **Chemistry [15]**
PH101 **Physics [15]**

OPTION 2:

Full Year Semester 1 and Semester 2

CP102 **Chemistry/Physics [15]**

Semester 1:

PS122 **Introductory Psychology 1 [5]**

Semester 2

EV1101 **Introduction to Irish Habitats [5]**
PS124 **Introductory Psychology 2 [5]**

Year 2

Year 3

Full Year Semester 1 and Semester 2

BPS3101 **Techniques in Field Ecology and Conservation [5]**

Semester 1

BSS2103 **Introduction to Sustainability 1 [5]**
EOS305 **Introduction to Applied Field Hydrology [5]**
EOS3103 **Palaeontology and Evolution [5]**
PAB3101 **Soil Sciences [5]**
MI324 **Immunology and Recombinant Techniques [5]**
TI2102 **Introduction To GIS [10]**

Semester 2

AR347 **Palaeoecology - Reconstructing Past Environments [5]**
BPS3104 **Plant Interactions [5]**
EOS304 **Aquatic Geochemistry [5]**
ZO315 **Applied Ecology [5]**
ZO318 **Geographic Information Systems and Biostatistics [5]**
ZO320 **Concepts in Population and Community Ecology [5]**

Year 4

Full Year Semester 1 and Semester 2

BPS3101 **Techniques in Field Ecology and Conservation [5]**
ZO418 **Phylogenetics & Conservation [5]**

Semester 1

BSS2103 **Introduction to Sustainability 1 [5]**
EOS305 **Introduction to Applied Field Hydrology [5]**
EOS3103 **Palaeontology and Evolution [5]**
EOS402 **Global Change [5]**
EOS418 **Applied Field Hydrogeology [5]**
PAB3101 **Soil Sciences [5]**
PH328 **Physics of the Environment I [5]**
ZO317 **Evolutionary Biology [5]**
ZO417 **Marine & Coastal Ecology [5]**

Semester 2

AR347 **Palaeoecology - Reconstructing Past Environments [5]**
BPS3104 **Plant Interactions [5]**
BPS405 **Ecology and Conservation Issues [5]**
EOS4101 **Earth Observation and Remote Sensing [5]**
MI4102 **Microbial Ecosystems Services & Systems Biology [5]**
MI4103 **Environmental Biotechnology [5]**
PH329 **Physics of the Environment II [5]**
TI311 **Advanced GIS [5]**
ZO315 **Applied Ecology [5]**
ZO318 **Geographic Information Systems and Biostatistics [5]**

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