

Overview

Year 1	Year 2	Year 3	Year 4
[60 Credits]	[60 Credits]	[60 Credits]	[60 Credits]
There are 45 credits of Core modules.	There are 30 credits of Core modules.	There are 40 credits of Core modules.	There are 30 credits of Core modules.
Choose one module to a value of 15 credits: Mathematics (Honours) Mathematical Studies Applied Mathematics Computer Science	Choose two or three module options to a value of 10 or 15 credits:	Choose Electives to value of 20 credits from the list available.	Choose 30 credits of Electives from the list of available modules.
	Evolution and the Tree of Life Laboratory Skills in Microbiology I Molecular and Cellular Biology		
	Choose Electives to a value of 15 or 20 credits from the list available.		

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

BSc Marine Sciences

Year 1	Year 2	Year 3	Year 4
[Core: 45 credits; Options: 15 credits]	[Core: 30 credits; Options: 10/15 credits; Electives: 20/15 credits]	[Core: 40 credits; Electives: 20 credits]	[Core: 30 credits; Electives: 30 credits]
MP180 Applied Mathematics [15]* BO101 Biology [15] CH120 Chemistry: Molecular Science [15] PH101 Physics [15] CS102 Computer Science [15]* MA161 Mathematical Studies [15]* MA180 Mathematics (Honours) [15]*	BO202 Evolution and the Tree of Life [5] BPS202 Fundamentals in Aquatic Plant Science [5] MI202 Laboratory Skills in Microbiology I [5] BO201 Molecular and Cellular Biology [5] EOS213 Introduction to Ocean Science [10] Semester 2 ZO208 Invertebrate Biology [5] MI204 Microbes and the Environment [5] ZO209 Vertebrate Zoology [5]	ZO415 Biometry [5] ZO3101 Marine Habitat [5] MI3101 Microbial Genomics [5] BPS3102 Plant Resources and Ecosystems [5] Semester 2 EOS304 Aquatic Geochemistry [5] ZO320 Concepts in Population and Community Ecology [5] ZO318 Geographic Information Systems and Biostatistics [5] EOS303 Ocean Dynamics [5]	Full Year – Semester 1 and Semester 2 MR409 Marine Science Essay and Presentation [5] MR413 Research Project [20] Semester 1 MR4101 Field Skills in Marine Science [5]
* Select one 15-credit module	* Select at least two 5-credit modules		

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Electives

Year 1	Year 2	Year 3	Year 4
F G G G G G G G G G G G G G G G G G G G	Full Year Semester 1 and Semester 2 FR252 French [10] GR224 Beginner's German for Science [10] GR252 German [10] GR353 German [10] Semester 1 GO2101 Scientific Writing Skills [5] LN2210 Scileanna Gaeilge don Eolaíochta 1 [5] MA284 Discrete Mathematics [5] MA2931 Mathematical Methods I [5] MP231 Mathematical Methods I [5] MP236 Mechanics I [5] ST2001 Statistics for Data Science I [5] Semester 2 BPS203 Plant Diversity, Physiology & Adaptation [5] EOS2102 The Earth: From Core to Crust [10] Scileanna Gaeilge don Eolaíochta 2 [5] MA203 Linear Algebra [5] MA216 Mathematical Molecular Biology II [5] MA216 Mathematical Molecular Biology II [5] MP237 Mechanics II [5] MP237 Mechanics II [5] MP237 Mechanics II [5] AgriBiosciences [5] ST2002 Statistics for Data Science II [5]	Full Year Semester 1 and Semester 2 FR365	Full Year Semester 1 and Semester 2 ZO418 Phylogenetics & Conservation [5] Semester 1 BPS402 Current Topics in Algal Research [5] BPS4107 Plant Cell Biology and Biochemistry [5] Global Change [5] ZO4102 Biostatistics for Natural Sciences [5] Marine & Costal Ecology Semester 2 BPS405 Ecology and Conservation Issues [5] Primary Productivity and Global Change [5] EOS407 History of Life [5] EOS409 Biophysical Interactions in the Ocean [5] EOS4101 Earth Observation and Remote Sensing [5] MI4102 Microbial Ecosystems Services & Systems Biology [5] MI4103 Environmental Biotechnology [5] Ocean and Marine Politics [5] Earth Surface Processes and Landforms [5]

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