



# Trinity College Dublin

Coláiste na Tríonóide, Baile Átha Cliath

The University of Dublin

## Junior Sophister (3<sup>rd</sup> Year) & Senior Sophister (4<sup>th</sup> Year) Moderatorships

In the Junior and Senior Freshman years Geography & Geoscience (TR062) students complete a course of study which will qualify them to compete for a place in one of the following Moderatorships at the end Senior Freshman year:

- Geography
- Geoscience

### Junior Sophister

Students in Junior Sophister year take 40 credits of core modules and 20 credits of Open Modules and Trinity Electives.

Open Modules are science modules that are aligned to the students' core discipline.

Trinity Electives are 5 ECTS modules that cover a wide range of languages and cultures, Trinity's research themes or grand societal challenges and are provided by schools from across the College - see here for the list of 43 available electives <https://www.tcd.ie/trinity-electives/electives/> Science students can take either one or two Trinity Electives – with a maximum of one per semester.

In Junior Sophister students can opt to do a study abroad year known as Erasmus [link](#)

### Senior Sophister

In the Senior Sophister year modules cover advanced topics in each of the Moderatorships. Students will complete a Capstone research project in their Senior Sophister year.

The following pages list the core and open modules available in each moderatorship:

## TR062 Science (Geography) – Junior Sophister Year

Semester 1 (S1)

Semester 2 (S2)

### MANDATORY CORE MODULES (40 Credits)

GGU33001 Geography Residential Field Course (10 Credits)

GGU33933 Geographical Information: Data & Tools (5 Credits)

GGU33928 Advanced Research Methods in Geography 1 (5 Credits)

GGU33010 Living on the Edge: Estuaries and Coasts (5 Credits)

GGU33011 Earth's Climate Past, Present and Future (5 Credits)

GGU33958 Red Planet (5 Credits)

GGU33012 Natural Hazards (5 Credits)

### Trinity Elective (5 credits) + THREE Open Modules (15 credits)

#### Trinity Elective (S1) (5 Credits)

#### Trinity Elective (S2) (5 Credits)

GSU33002 Blue Earth: Understanding the Function of Marine Ecosystems (5 Credits)

GGU33931 Environmental Governance 1 (5 Credits)

GSU33003 Ice Age Earth (5 Credits)

GGU33915 Globalisation and Geopolitics (5 credits)

GGU33939 Exploring the Sustainable City (5 Credits)

GGU33937 Urban Economic Structure & Regeneration (5 credits)\*

BOU33105 Global Environmental Change (5 Credits)

BOU33123 Soil Science (5 Credits)

## TR062 Science (Geography) – Senior Sophister Year

Semester 1 (S1)

Semester 2 (S2)

### MANDATORY CORE MODULE (20 Credits)

GGU44930 Geography Dissertation (20 Credits)

### OPTIONAL OPEN MODULES (40 Credits – 20 Credits per Semester)

GGU44974 Glaciers and Glaciation  
(10 Credits)

GGU44975 Coastal Wetlands  
(10 Credits)

GGU44969 Urban Geography: Cities, Space  
and Culture  
(10 Credits)

GGU44968 Historical Geography  
(10 Credits)

GGU44933 GIS and Remote Sensing  
Applications in Geography (5 Credits)  
BOU44111 Restoration Ecology and  
Rewilding (5 Credits)

GGU44927 Environmental Governance 2 (5  
Credits)  
GGU44936 Globalisation and African  
Development (5 Credits)

## TR062 Science (Geoscience) – Junior Sophister Year

### Semester One

### Semester Two

#### CORE MODULES (40 Credits)

GSU33002 Blue Earth: Understanding the Function of Marine Ecosystems (5 Credits)

GSU33003 Ice Age Earth (5 Credits)

GLU33004 The Crystal World (5 Credits)

GLU33006 Stratigraphy: Earth Through Time (5 Credits)

GSU33001 Research Methods for Geoscientists (5 Credits)

GLU33005 Volcanism and Magmatism (5 Credits)

GSU33007 Junior Sophister Geoscience Field Course (10 Credits)

#### Trinity Elective (5 credits) + THREE Open Modules (15 credits)

Trinity Elective (5 Credits)

Trinity Elective (5 Credits)

GGU33958 Red Planet (5 credits)

GLU33928 Structural Geology (5 Credits)

GGU33933 Geographical Information: Data and Tools (5 Credits)

GLU33008 Metamorphic Rocks and Processes (5 Credits)

GGU33010 Living on the Edge: Estuaries and Coasts (5 Credits)

GGU33011 Earth's Climate Past, Present and Future (5 Credits)

ZOU33010 Fundamentals of Ecology (5 Credits)

GGU33012 Natural Hazards (5 Credits)

BOU33105 Global Environmental Change (5 Credits)

GLU33009 Hydrology and Groundwater Quality (5 Credits)

BOU33123 Soil Science (5 Credits)

## TR062 Science (Geoscience) – Senior Sophister Year

Semester One

Semester Two

### MANDATORY CORE MODULES (30 Credits)

GSU44001 Geoscience Capstone Project (20 Credits)

GSU44002 Senior Sophister Geoscience Field Course (5 Credits)

GSU44003 Geoscience Frontiers: Past, Present and Future (5 Credits)

### OPTIONAL OPEN MODULES (30 Credits – 15 Credits per Semester)

GLU44009 Geoscience for a Sustainable Planet (5 Credits)

GLU44005 Advanced Palaeontology (5 Credits)

GLU44010 Hydrocarbon Exploration in Rift Basins (5 Credits)

GLU44007 Earth Resources for a Critical Future (5 Credits)

GGU44974 Glaciers and Glaciation (10 Credits)

GLU44006 Carbonates: from the Atomic to Planetary Scale (5 Credits)

GLU44011 Palaeoceanography and Palaeoclimatology (5 Credits)

GLU44008 Early Earth Evolution (5 Credits)

GLU44012 Raw Materials in Building (5 Credits)

GGU44975 Coastal Wetlands (10 Credits)

# Trinity Electives by Semester 2020/21

## Semester 1

TEU00381	Ancient Culture Lab: Homer's Experience and the Greek Language
TEU00371	Becoming Human: The Science of Us
TEU00121	Cancer: The Patient Journey
TEU00351	The Chemistry of Periodic Elements
TEU00131	Chinese Language and Culture (Beginners)
TEU00141	Cultures and Societies of the Middle East and North Africa
TEU00031	Design Thinking
TEU00151	Displacement: exploring the human experience of forced migration
TEU00041	Emergence of Technologies
TEU00171 & TEU00161	French Language and Culture (Beginners and Advanced)
TEU00191/ TEU00181	German Language and Culture (Beginners and Advanced)
TEU00081	Idea Translation Lab
TEU00101	Irish Landscapes: Interdisciplinary Perspectives
TEU00211 & TEU00201	Irish Language and Culture (Beginners and Advanced)
TEU00341	Irish Sign Language
TEU00321 & TEU00331	Italian Language and Culture (Beginners and Advanced)
TEU00221	Japanese Language and Culture (Beginners)
TEU00231	Korean Language and Culture (Beginners)
TEU00251 & TEU00241	Spanish Language and Culture (Beginners and Advanced)
TEU00291	Travel and English Literature
TEU00301	Vaccines – Friend or Foe
TEU00311	What is the Internet doing to me? (Security and Privacy for people in a connected world)
TEU00011	A World to Discover: Travel Memoirs and Memorabilia at Trinity

## Trinity Electives by Semester 2020/2021

### Semester 2

TEU00262	The Art of the Megacity
TEU00122	Cancer: The Patient Journey
TEU00132	Chinese Language and Culture (Beginners)
TEU00452	Contemporary Art Angles
TEU00142	Cultures and Societies of the Middle East and North Africa
TEU00422	Decoding Genetics: The building blocks of life
TEU00152	Displacement: exploring the human experience of forced migration
TEU00052	Energy in the 21 <sup>st</sup> Century
TEU00062	Engaging in the Digital World: Today and Tomorrow
TEU00272	The Ethics Lab: Responsible Action in the Real World
TEU00172 & TEU00162	French Language and Culture (Beginners and Advanced)
TEU00072	From Planets to the Cosmos
TEU00192 & TEU00182	German Language and Culture (Beginners and Advanced)
TEU00362	Hacking your health: the science of exercise and fitness
TEU00402	How to live long and prosper – A lifespan approach
TEU00082	Idea Translation Lab
TEU00212 & TEU00202	Irish language and Culture (Beginners and Advanced)
TEU00342	Irish Sign Language
TEU00322 & TEU00332	Italian Language and Culture (Beginners and Advanced)
TEU00222	Japanese Language and Culture (Beginners)
TEU00232	Korean Language and Culture (Beginners)
TEU00422	Language and Communication in the Digital Age
TEU00392	Latin: One Language, Many Cultures
TEU00412	The Politics of Peace and Conflict in a Globalised World
TEU00112	Social Innovation – Tools for Social Change
TEU00252 & TEU00242	Spanish Language and Culture (Beginners and Advanced)
TEU00462	Sustainable Development Goals and Policy Evaluation: Global Development One Target at a Time
TEU00432	Thinking Digitally and Culturally
TEU00282	Toolkit for a Smart & Sustainable World
TEU00292	Travel and English Literature