

Degree Programme	<b>BSc and MEarthSci Environmental Science</b>
Pathway:	<b>Atmospheric &amp; Climate Science</b>
Academic year of study:	<b>2024-25</b>
Contact:	If you have any questions about this structure, please contact <a href="mailto:sons.programmes@manchester.ac.uk">sons.programmes@manchester.ac.uk</a>

<b>First Year</b>		
<b>All First Year Students have a combined 1<sup>st</sup> year schedule of compulsory units as below.</b> You will automatically be enrolled on these units by the Curriculum and Programmes Team.		
<b>EART11100</b>	Understanding the Earth	40 Credits
<b>EART11200</b>	The Natural Scientist's Toolkit	40 Credits
<b>EART11300</b>	Practical and Professional Skills Development	40 Credits
<b>EART11111</b>	Welcome Week Activity	0 Credits
<b>EART10020</b>	PASS	0 Credits
<b>EART19040</b>	Aspire – Your Future	0 Credits

Second Year		
Core Units		
You will automatically be enrolled on these units by the Earth Support Team.		
Programme core units		
<b>EART29200</b>	Professional Development and Project Preparation	10 credits
<b>EART22001</b>	Environmental Modelling	10 credits
<b>EART21201</b>	Global Climate Change	10 credits
<b>EART25001</b>	Ecology and Conservation	10 credits
<b>EART27102</b>	Field Course: Analysing Environmental Field Data	10 credits
<b>EART29002</b>	Environmental Enterprise	10 credits
Pathway core units		
<b>EART23001</b>	Atmospheric Physics and weather	10 credits
<b>EART27001</b>	Environmental Chemistry 1: Water-Solid-Air Interactions	10 credits
<b>EART28002</b>	Environmental Chemistry 2: Biogeochemical Cycles	10 credits
<b>EART29102</b>	Geospatial Techniques	10 credits
Optional Units		
You must select THREE of the following optional units; two in semester 1 and one in semester 2.		
<b>EART26001</b>	Energy and Resources	10 credits
<b>EART26201</b>	Principles of Geochemistry	10 credits
<b>EART22101</b>	Evolution and Palaeobiology	10 credits
<b>EART27201</b>	Sedimentary Rocks and Fossils	10 credits
<b>BIOL21202</b>	Plants for the Future	10 credits
<b>EART23202</b>	Interpreting the Stratigraphic Record: From Surface to Subsurface*	10 credits
You may also choose 1 unit (up to 20 credits max) – UCIL or Language unit**		
* <i>If chosen, students should also choose EART27201 Sedimentary Rocks and Fossils.</i>		
** Note that BIOL and UCIL units may clash with EART units and we cannot guarantee that this can be avoided		

<b>Third Year</b>		
<b>Core Units</b>		
You will automatically be enrolled on these units by the Earth Support Team.		
<b>Programme core units</b>		
<b>EART32000</b>	Independent Project in Environmental Science	30 credits
<b>EART31001</b>	Communicating Science	10 credits
<b>EART35302</b>	Field Course: Integration of Environmental Investigations, Tenerife	10 credits
<b>Pathway core units</b>		
<b>EART37202</b>	Remote sensing of Atmospheres	10 credits
<b>EART35001</b>	Atmospheric Composition	10 credits
<b>EART36002</b>	Climate and Energy: Past, Present and Future	10 credits
<b>EART31201</b>	Meteorology and Forecasting	10 credits
<b>Optional Units</b>		
You must select THREE of the following optional units; a maximum of one unit can be taken in semester 2.		
<b>EART38202</b>	Resource Projects: Life Cycles, Risk Analysis, Decision Making and Case Studies	10 credits
<b>EART33001</b>	Analytical Techniques in Earth and Environmental Sciences	10 credits
<b>EART34102</b>	Geoenergy	10 credits
<b>EART39001</b>	Environmental Challenges: Air Pollution in Major Cities	10 credits
<b>EART31101</b>	Environmental Challenges: Arctic Climate Warming	10 credits
<b>EART33102</b>	Environmental Challenges: Waste and Nuclear Waste Disposal	10 credits
<b>EART32102</b>	Environmental Challenges: Arsenic Contamination in Asia	10 credits
<b>BIOL31551</b>	Human Impacts on the Biosphere	10 credits
<b>BIOL31541</b>	Living with Climate Change	10 credits
You may also choose 1 unit (up to 20 credits max) – UCIL or Language unit*		
**Note that BIOL and UCIL units may clash with EART units and we cannot guarantee that this can be avoided		

**PLEASE NOTE:**

When selecting your course units you must ensure you enrol on:

- 120 credits in total (including any core units)
- A minimum of 50 credits per semester
- A maximum of 70 credits per semester

## MEnvSci (All pathways)

**2<sup>nd</sup> and 3<sup>th</sup> year:** Same as regular BSC programmes

Fourth Year		
Core Units		
You will automatically be enrolled on these units by the Earth Support Team.		
<b>EART40000</b>	Research Project in Environmental Sciences	60 credits
<b>EART40012</b>	Integrated Earth and Environmental Science field course	15 credits
<b>EART40031</b>	Communicating Earth and Environmental Science	15 credits
<b>EART40130</b>	Topics in Earth, Planetary and Environmental Sciences	15 credits
Optional Units		
Select 15 credits from the following		
<b>EART40120</b>	Elective in Environmental Sciences	15 credits

† Available to all except those who completed the unit at undergraduate level

## MEnvSci with Industrial Experience (All pathways)

**2<sup>nd</sup> year:** Same as regular BSC programmes

**3<sup>th</sup> year:** EART39970    Core Environmental Science  
                   EART39990    Placement in industry

Fourth Year		
Core Units		
You will automatically be enrolled on these units by the Earth Support Team.		
<b>EART40000</b>	Research Project in Environmental Sciences	60 credits
<b>EART40012</b>	Integrated Earth and Environmental Science field course	15 credits
<b>EART40031</b>	Communicating Earth and Environmental Science	15 credits
<b>EART40130</b>	Topics in Earth, Planetary and Environmental Sciences	15 credits
Optional Units		
Select 15 credits from the following		
<b>EART40120</b>	Elective in Environmental Sciences	15 credits

† Available to all except those who completed the unit at undergraduate level

## MEnvSci with International Study (All pathways)

**2<sup>nd</sup> year:** Same as regular BSC programmes

**3<sup>th</sup> year:** EART39950    Study at University Abroad

Fourth Year		
Core Units		
You will automatically be enrolled on these units by the Earth Support Team.		
<b>EART40000</b>	Research Project in Environmental Sciences	60 credits
<b>EART40012</b>	Integrated Earth and Environmental Science field course	15 credits
<b>EART40031</b>	Communicating Earth and Environmental Science	15 credits
<b>EART40130</b>	Topics in Earth, Planetary and Environmental Sciences	15 credits
Optional Units		
Select 15 credits from the following		
<b>EART40120</b>	Elective in Environmental Sciences	15 credits

† Available to all except those who completed the unit at undergraduate level

## MEnvSci with a Research Placement (All pathways)

**2<sup>nd</sup> year:** Same as regular BSC programmes

**3<sup>th</sup> year:** EART39970    Core Environmental Science  
EART39980    Year in Research

Fourth Year		
Core Units		
You will automatically be enrolled on these units by the Earth Support Team.		
<b>EART40000</b>	Research Project in Environmental Sciences	60 credits
<b>EART40012</b>	Integrated Earth and Environmental Science field course	15 credits
<b>EART40031</b>	Communicating Earth and Environmental Science	15 credits
<b>EART40130</b>	Topics in Earth, Planetary and Environmental Sciences	15 credits
Optional Units		
Select 15 credits from the following		
<b>EART40120</b>	Elective in Environmental Sciences	15 credits

† Available to all except those who completed the unit at undergraduate level