

Honours Program - Earth Sciences

Year and Campus:	2016																																									
Coordinator:	Associate Professor Kevin Walsh School of Earth Sciences Email: kevin.walsh@unimelb.edu.au																																									
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Overview:	<p>Honours in Earth Sciences is a one-year program designed to extend students' knowledge and skills through a supervised research project together with advanced coursework in earth sciences.</p> <p>Admission requirements</p> <p>In addition to satisfying the Bachelor of Science (Degree with Honours) entry requirements, students are required to have completed stream specific prerequisite (http://science.unimelb.edu.au/available-stream-requirements%20) .</p> <p>Honours in Earth Sciences is available as start of year intake and mid year intake, and is dependent on the availability and agreement of an appropriate thesis supervisor.</p>																																									
Learning Outcomes:	The main objective of the honours year is to produce an original research report or thesis based on the project work completed during the honours year.																																									
Structure & Available Subjects:	<p>Research Students must complete 75 points of research.</p> <p>Coursework Students must complete 25 points of coursework.</p>																																									
Subject Options:	<p>Research component</p> <p>Students enrol in a total of 75 points of research project across the duration of the Honours program. This is achieved by enrolling in a combination of the following subjects in appropriate semesters to achieve a total 75 credit points.</p> <table border="1"> <thead> <tr> <th>Subject</th> <th>Study Period Commencement:</th> <th>Credit Points:</th> </tr> </thead> <tbody> <tr> <td>ERTH40001 Earth Sciences Research Project</td> <td>Semester 1, Semester 2</td> <td>25</td> </tr> <tr> <td>ERTH40003 Earth Sciences Research Project</td> <td>Semester 1, Semester 2</td> <td>37.50</td> </tr> <tr> <td>ERTH40006 Earth Sciences Research Project</td> <td>Semester 1, Semester 2</td> <td>50</td> </tr> </tbody> </table> <p>Coursework component</p> <p>Students select 25 points of coursework from the following subjects</p> <table border="1"> <thead> <tr> <th>Subject</th> <th>Study Period Commencement:</th> <th>Credit Points:</th> </tr> </thead> <tbody> <tr> <td>ATOC90002 Climate Affairs</td> <td>Semester 1</td> <td>12.5</td> </tr> <tr> <td>ATOC90004 Current Topics in Atmospheric Research</td> <td>Semester 1</td> <td>12.5</td> </tr> <tr> <td>ATOC90005 Atmosphere Ocean Interaction and Climate</td> <td>Not offered 2016</td> <td>12.5</td> </tr> <tr> <td>ATOC90006 Climate Analysis and Modelling</td> <td>Not offered 2016</td> <td>12.5</td> </tr> <tr> <td>ATOC90007 Mesoscale Atmospheric Dynamics</td> <td>May</td> <td>12.5</td> </tr> <tr> <td>ATOC90010 Statistics in Climate Dynamics</td> <td>April, Semester 1</td> <td>12.5</td> </tr> <tr> <td>ATOC90011 Convective Clouds and Storms</td> <td>Not offered 2016</td> <td>12.5</td> </tr> <tr> <td>ATOC90012 Advanced Dynamical Meteorology</td> <td>Semester 1</td> <td>12.5</td> </tr> </tbody> </table>			Subject	Study Period Commencement:	Credit Points:	ERTH40001 Earth Sciences Research Project	Semester 1, Semester 2	25	ERTH40003 Earth Sciences Research Project	Semester 1, Semester 2	37.50	ERTH40006 Earth Sciences Research Project	Semester 1, Semester 2	50	Subject	Study Period Commencement:	Credit Points:	ATOC90002 Climate Affairs	Semester 1	12.5	ATOC90004 Current Topics in Atmospheric Research	Semester 1	12.5	ATOC90005 Atmosphere Ocean Interaction and Climate	Not offered 2016	12.5	ATOC90006 Climate Analysis and Modelling	Not offered 2016	12.5	ATOC90007 Mesoscale Atmospheric Dynamics	May	12.5	ATOC90010 Statistics in Climate Dynamics	April, Semester 1	12.5	ATOC90011 Convective Clouds and Storms	Not offered 2016	12.5	ATOC90012 Advanced Dynamical Meteorology	Semester 1	12.5
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	ATOC90013 Atmospheric Modelling	March	12.5
	COMP90059 Introduction to Python	February	6.25
	ERTH90029 Environmental Geochemistry	June	6.25
	ERTH90030 Mineral Exploration Through Cover	Not offered 2016	6.25
	ERTH90031 Regolith Geoscience	Not offered 2016	6.25
	ERTH90032 Interpretation of Satellite Images	February	6.25
	ERTH90033 Geology from Geophysics	February	6.25
	ERTH90034 Advanced Hydrogeology	May	6.25
	GEOL90005 Hydrogeology/Environmental Geochemistry	Semester 1	12.5
	GEOL90021 Earth's Biogeochemical Cycles	Not offered 2016	12.5
	GEOL90027 Advanced Structural Mapping	February	6.25
	GEOL90028 Geochronology and Thermochronology	March	6.25
	GEOL90029 Geology of Gold	March	6.25
	GEOL90030 Coastal Environmental Geomorphology	Not offered 2016	6.25
	GEOL90031 Ore Reserve Estimation	March	6.25
	GEOL90032 Introduction to Mineralogy	April, May	6.25
	GEOL90033 Mine Safety and Engineering	May	6.25
	GEOL90034 Practical Igneous Petrology	May	6.25
	GEOL90035 Geodynamics	April	6.25
	GEOL90036 Australian Coal Basins	Not offered 2016	6.25
	GEOL90037 Applied Structural Geology	March	6.25
	GEOL90038 Igneous Geodynamics and Ore Deposits	June	6.25
	GEOL90041 Mining Geology & Resource Evaluation	June	6.25
	GEOL90042 Ore Textures & Breccias	June	6.25
	GEOL90043 Fundamentals of Geological CO2 Storage	March, September	6.25
	GEOL90044 Ore Deposit Models	May	6.25
	GEOL90045 Exploration Skills Mapping	February	6.25
	GEOL90046 Environmental Geology Field Techniques	August	6.25
	GEOM90044 Geoscience Information Systems	April	6.25
Links to further information:	http://www.earthsci.unimelb.edu.au/honours/		
Notes:	Honours students are required to attend orientation sessions that commence approximately four weeks before the beginning of the undergraduate semester.		
Related Course(s):	Bachelor of Science (Degree with Honours)		