

# Honours Program - Earth Sciences

| <b>Year and Campus:</b>                           | 2012   |                |                            |                |   |                        |    |   |                        |       |   |                        |    |         |                            |                |                           |            |       |   |                        |       |  |            |       |
|---|--|----------------|----------------------------|----------------|---|------------------------|----|---|------------------------|-------|---|------------------------|----|---------|----------------------------|----------------|---------------------------|------------|-------|---|------------------------|-------|--|------------|-------|
| <b>Coordinator:</b>                               | Associate Professor Kevin Walsh<br>School of Earth Sciences  |                |                            |                |   |                        |    |   |                        |       |   |                        |    |         |                            |                |                           |            |       |   |                        |       |  |            |       |
| <b>Contact:</b>                                   | <p>Email: <a href="mailto:kevin.walsh@unimelb.edu.au">kevin.walsh@unimelb.edu.au</a> (<a href="mailto:kevin.walsh@unimelb.edu.au">mailto:kevin.walsh@unimelb.edu.au</a>)</p> <p>For course enquiries about the Bachelor of Science (Degree with Honours) in Earth Sciences, please contact:</p> <p>Eastern Precinct Student Centre<br/>The Eastern Precinct (building 138)<br/>(between Doug McDonnell building and Eastern Resource Centre)</p> <p><a href="http://www.studentcentre.unimelb.edu.au/eastern">http://www.studentcentre.unimelb.edu.au/eastern</a> (<a href="http://www.studentcentre.unimelb.edu.au/eastern">http://www.studentcentre.unimelb.edu.au/eastern</a>)</p> <p>Phone: 13 MELB (13 6352)<br/>Email: 13MELB@unimelb.edu.au</p>   |                |                            |                |   |                        |    |   |                        |       |   |                        |    |         |                            |                |                           |            |       |   |                        |       |  |            |       |
| <b>Overview:</b>                                  | <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><b>Admission requirements</b></p> <p>In addition to satisfying the Bachelor of Science (Degree with Honours) entry requirements, students entering the Earth Sciences honours program need to have completed a major study in earth sciences or a discipline relevant to the project.</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>  |                |                            |                |   |                        |    |   |                        |       |   |                        |    |         |                            |                |                           |            |       |   |                        |       |  |            |       |
| <b>Objectives:</b>                                | 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.  |                |                            |                |   |                        |    |   |                        |       |   |                        |    |         |                            |                |                           |            |       |   |                        |       |  |            |       |
| <b>Structure &amp; Available Subjects:</b>        | <p>Research<br/>Students must complete 75 points of research.</p> <p>Coursework<br/>Students must complete 25 points of coursework.</p>  |                |                            |                |   |                        |    |   |                        |       |   |                        |    |         |                            |                |                           |            |       |   |                        |       |  |            |       |
| <b>Subject Options:</b>                           | <p><b>Research component</b></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><b>Coursework component</b></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 2</td> <td>12.50</td> </tr> <tr> <td>ATOC90004 Current Topics in Atmospheric Science A</td> <td>Semester 1, Semester 2</td> <td>12.50</td> </tr> <tr> <td>ATOC90006 Climate Analysis and Modelling</td> <td>Semester 1</td> <td>12.50</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 2 | 12.50 | ATOC90004 Current Topics in Atmospheric Science A | Semester 1, Semester 2 | 12.50 | ATOC90006 Climate Analysis and Modelling | Semester 1 | 12.50 |
| 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 2   | 12.50          |                            |                |   |                        |    |   |                        |       |   |                        |    |         |                            |                |                           |            |       |   |                        |       |  |            |       |
| ATOC90004 Current Topics in Atmospheric Science A | Semester 1, Semester 2   | 12.50          |                            |                |   |                        |    |   |                        |       |   |                        |    |         |                            |                |                           |            |       |   |                        |       |  |            |       |
| ATOC90006 Climate Analysis and Modelling          | Semester 1   | 12.50          |                            |                |   |                        |    |   |                        |       |   |                        |    |         |                            |                |                           |            |       |   |                        |       |  |            |       |

|                                      |   |            |       |
|--------------------------------------|---|------------|-------|
|                                      | EVSC90018 Hydrogeology and the Environment  | Semester 1 | 12.50 |
|                                      | GEOL90005 Hydrogeology  | Semester 1 | 12.50 |
|                                      | GEOL90007 Geochemistry and Geochronology  | Semester 1 | 12.50 |
|                                      | GEOL90008 Digital Geoscience  | Semester 1 | 12.50 |
|                                      | GEOL90009 Geophysics  | Semester 1 | 12.50 |
|                                      | GEOL90010 Geoscience in the Field   | Semester 1 | 12.50 |
|                                      | GEOL90012 Current Topics in Geology A   | Semester 1 | 12.50 |
|                                      | GEOL90013 Current Topics in Geology B   | Semester 2 | 12.50 |
|                                      | GEOL90014 Deposit Models & Mineral Exploration  | Semester 1 | 12.50 |
|                                      | GEOL90015 The Geology of Ore Deposits   | Semester 1 | 12.50 |
|                                      | GEOL90016 Surface Processes and Geodynamics   | Semester 1 | 12.50 |
|                                      | GEOL90017 Structural Geology and Geodynamics  | Semester 1 | 12.50 |
|                                      | GEOL90018 Mineralogy and Mineral Identification   | Semester 2 | 12.50 |
| <b>Links to further information:</b> | <a href="http://www.earthsci.unimelb.edu.au/honours/">http://www.earthsci.unimelb.edu.au/honours/</a>   |            |       |
| <b>Notes:</b>                        | Honours students are required to attend orientation sessions that commence approximately four weeks before the beginning of the undergraduate semester. |            |       |
| <b>Related Course(s):</b>            | Bachelor of Science (Degree with Honours)   |            |       |