

EVSC20004 Blue Planet-Intro to Marine Environments

| Credit Points: | 12.5 | | | | | | | | | | | | | | | | | | | | | |
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| Level: | 2 (Undergraduate) | | | | | | | | | | | | | | | | | | | | | |
| Dates & Locations: | 2016, Parkville This subject commences in the following study period/s: Semester 1, Parkville - Taught on campus. Lectures and compulsory field excursion. Weekend field excursion on 19 and 20 March to Thirteenth Beach, Barwon Heads. | | | | | | | | | | | | | | | | | | | | | |
| Time Commitment: | Contact Hours: 31 lectures; 3 tutorials; 16 hours of field practical instruction Total Time Commitment: 170 hours | | | | | | | | | | | | | | | | | | | | | |
| Prerequisites: | One of <table border="1"> <thead> <tr> <th>Subject</th> <th>Study Period Commencement:</th> <th>Credit Points:</th> </tr> </thead> <tbody> <tr> <td>BIOL10002 Biomolecules and Cells</td> <td>Semester 1</td> <td>12.50</td> </tr> <tr> <td>BIOL10003 Genes and Environment</td> <td>Semester 2</td> <td>12.50</td> </tr> <tr> <td>BIOL10004 Biology of Cells and Organisms</td> <td>Semester 1</td> <td>12.50</td> </tr> <tr> <td>BIOL10005 Genetics & The Evolution of Life</td> <td>Semester 2</td> <td>12.50</td> </tr> <tr> <td>BIOL10001 Biology of Australian Flora & Fauna</td> <td>Semester 2</td> <td>12.50</td> </tr> <tr> <td>ENVS10001 Natural Environments</td> <td>Semester 1, Semester 2</td> <td>12.50</td> </tr> </tbody> </table> | Subject | Study Period Commencement: | Credit Points: | BIOL10002 Biomolecules and Cells | Semester 1 | 12.50 | BIOL10003 Genes and Environment | Semester 2 | 12.50 | BIOL10004 Biology of Cells and Organisms | Semester 1 | 12.50 | BIOL10005 Genetics & The Evolution of Life | Semester 2 | 12.50 | BIOL10001 Biology of Australian Flora & Fauna | Semester 2 | 12.50 | ENVS10001 Natural Environments | Semester 1, Semester 2 | 12.50 |
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| BIOL10002 Biomolecules and Cells | Semester 1 | 12.50 | | | | | | | | | | | | | | | | | | | | |
| BIOL10003 Genes and Environment | Semester 2 | 12.50 | | | | | | | | | | | | | | | | | | | | |
| BIOL10004 Biology of Cells and Organisms | Semester 1 | 12.50 | | | | | | | | | | | | | | | | | | | | |
| BIOL10005 Genetics & The Evolution of Life | Semester 2 | 12.50 | | | | | | | | | | | | | | | | | | | | |
| BIOL10001 Biology of Australian Flora & Fauna | Semester 2 | 12.50 | | | | | | | | | | | | | | | | | | | | |
| ENVS10001 Natural Environments | Semester 1, Semester 2 | 12.50 | | | | | | | | | | | | | | | | | | | | |
| Corequisites: | None | | | | | | | | | | | | | | | | | | | | | |
| Recommended Background Knowledge: | None | | | | | | | | | | | | | | | | | | | | | |
| Non Allowed Subjects: | None | | | | | | | | | | | | | | | | | | | | | |
| Core Participation Requirements: | <p><p>For the purposes of considering request for Reasonable Adjustments under the Disability Standards for Education (Cwth 2005), and Student Support and Engagement Policy, academic requirements for this subject are articulated in the Subject Overview, Learning Outcomes, Assessment and Generic Skills sections of this entry.</p> <p>It is University policy to take all reasonable steps to minimise the impact of disability upon academic study, and reasonable adjustments will be made to enhance a student's participation in the University's programs. Students who feel their disability may impact on meeting the requirements of this subject are encouraged to discuss this matter with a Faculty Student Adviser and Student Equity and Disability Support: http://services.unimelb.edu.au/disability</p></p> | | | | | | | | | | | | | | | | | | | | | |
| Coordinator: | Dr John Morrongiello | | | | | | | | | | | | | | | | | | | | | |
| Contact: | john.morrongiello@unimelb.edu.au (mailto:john.morrongiello@unimelb.edu.au) | | | | | | | | | | | | | | | | | | | | | |
| Subject Overview: | This subject will introduce students to the interrelationships among marine organisms and the ocean they live in and how these interactions are changing as a consequence of human activities. Topics covered include: ocean circulation, productivity and the impacts of climate change; coastal upwelling, food web dynamics and the impacts of fishing; coastal currents, species ranges and the effects of introduced marine pests; and land-sea connections, nutrient cycling and toxic algal blooms. How to study the interactions between the ocean and its flora | | | | | | | | | | | | | | | | | | | | | |

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| | and fauna will be investigated through a compulsory weekend field excursion on 19 and 20 March to Thirteenth Beach, Barwon Heads. |
| Learning Outcomes: | The objectives of this subject are to: <ul style="list-style-type: none"> # introduce the sciences of marine biology and oceanography, # demonstrate how various elements of the living marine environment interrelate and are part of the complex system we know as the world's oceans, # increase awareness of human impacts on the marine environment, and # provide basic tools for understanding and studying the marine environment. |
| Assessment: | A written excursion report up to 2000 words due during the semester (30%); a 60 minute mid-semester test (20%); a 3-hour written examination in the examination period (50%). |
| Prescribed Texts: | None |
| Recommended Texts: | <ul style="list-style-type: none"> # Levinton J.S. Marine Biology: Function, Biodiversity, Ecology # Garrison T.S. Oceanography: An Invitation to Marine Science |
| Breadth Options: | <p>This subject potentially can be taken as a breadth subject component for the following courses:</p> <ul style="list-style-type: none"> # Bachelor of Arts (https://handbook.unimelb.edu.au/view/2016/B-ARTS) # Bachelor of Commerce (https://handbook.unimelb.edu.au/view/2016/B-COM) # Bachelor of Environments (https://handbook.unimelb.edu.au/view/2016/B-ENVS) # Bachelor of Music (https://handbook.unimelb.edu.au/view/2016/B-MUS) <p>You should visit learn more about breadth subjects (http://breadth.unimelb.edu.au/breadth/info/index.html) and read the breadth requirements for your degree, and should discuss your choice with your student adviser, before deciding on your subjects.</p> |
| Fees Information: | Subject EFTSL, Level, Discipline & Census Date, http://enrolment.unimelb.edu.au/fees |
| Generic Skills: | The subject builds upon generic skills developed in first year level subjects, including the ability to approach and assimilate new knowledge and an ability to use that knowledge to evaluate theories and communicate ideas. Students should also develop skills in field sampling techniques and to apply these skills to investigate marine environmental issues. |
| Notes: | <p>Participation in a field trip is required for this subject.</p> <p>This subject is available for science credit to students enrolled in the BSc (both pre-2008 and new degrees),</p> |
| Related Majors/Minors/Specialisations: | <p>Botany Botany Environments Discipline subjects Science-credited subjects - new generation B-SCI and B-ENG. Selective subjects for B-BMED Zoology Zoology</p> |
| Related Breadth Track(s): | Marine Life |