

## Construction major

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| <b>Year and Campus:</b>                    | 2013   |
| <b>Coordinator:</b>                        | Associate Professor Peter Ashford  |
| <b>Contact:</b>                            | Email: <a href="mailto:ptashf@unimelb.edu.au">ptashf@unimelb.edu.au</a> ( <a href="mailto:ptashf@unimelb.edu.au">mailto:ptashf@unimelb.edu.au</a> )  |
| <b>Overview:</b>                           | <p>Construction explores the management of people, processes and materials on specific building projects as well as more broadly, across the building industry. Just as the building industry embraces both building and commerce, so will your studies in construction, with subjects undertaken in everything from construction, structures, commerce, management and law. The breadth of the construction profession is further revealed by site visits, guest speakers and teachers who work in the industry who will ensure that your studies are grounded in the real world.</p> <p><b>Careers and Further Study:</b> Bachelor of Environments graduates with a construction major might work in construction management or quantity surveying in Australia or internationally. The construction major provides a strong grounding that prepares you for further studies in the Master of Construction Management. For more information on the Master of Construction Management, please visit the Melbourne School of Design web site: <a href="http://www.msd.unimelb.edu.au/">http://www.msd.unimelb.edu.au/</a> (<a href="http://www.msd.unimelb.edu.au/">http://www.msd.unimelb.edu.au/</a>)</p>  |
| <b>Objectives:</b>                         | By the end of a three year Bachelor of Environments degree with a construction major, students will have developed a breadth of knowledge and competence in areas from construction to management. For more information visit: <a href="http://www.benvs.unimelb.edu.au">www.benvs.unimelb.edu.au</a> ( <a href="http://www.benvs.unimelb.edu.au">http://www.benvs.unimelb.edu.au</a> )  |
| <b>Structure &amp; Available Subjects:</b> | 112.5 points (9 subjects) of Construction subjects.  |
| <b>Majors/Minors/Specialisations</b>       | <p>Course planning for a Construction major</p> <p>A major in Construction in the Bachelor of Environments consists of:</p> <ul style="list-style-type: none"> <li># 112.5 points (9 subjects) of Construction subjects;</li> <li># 37.5 points (3 subjects) of core first year subjects (Natural Environments, Reshaping Environments and Urban Environments);</li> <li># 12.5 points (1 subjects) of first year subjects that are core to the major (Structural Environments).</li> </ul> <p>This is in addition to electives and breadth to make up the 300 points required for the degree. Specific details of the Bachelor of Environments course structure can be found at: <a href="https://handbook.unimelb.edu.au/view/current/B-ENVS">https://handbook.unimelb.edu.au/view/current/B-ENVS</a> (<a href="https://handbook.unimelb.edu.au/view/current/B-ENVS">../view/current/B-ENVS</a>)</p> <p>A mathematics background is necessary for students majoring in Construction. Please note, knowledge of VCE Mathematical Methods Units 3 and 4 will be assumed. Students without this background may need to take a bridging subject in mathematics as Level 1 breadth. This bridging subject is MAST10012 Introduction to Mathematics and it is equivalent to VCE Mathematical Methods Units 3 and 4; entry into this subject requires a mathematical background equivalent to Mathematical Methods Units 1 and 2. This level of mathematics knowledge is required for students to enrol in ECON10004 Introductory Microeconomics (one of the recommended breadth subjects for accreditation).</p> |
| <b>Subject Options:</b>                    | <p>The following description of the Construction major aligns with the Study Plan Structure viewable on the Portal for students who commenced the Bachelor of Environments in 2013 or later.</p> <p>The components within the structure of this major have been designed to enforce the requirements of both this specific major and of the course overall, e.g. the requirement that at least 62.5 points of Environments discipline subjects (which can include subjects taken within the major) are taken at each of Level 2 and Level 3.</p> <p>It is strongly recommended that students refer to the full description of this major.</p> <p>The layout of this description is not necessarily in the order in which subjects are taken.</p>   |

E.g. breadth subjects should be taken in a student's first year and the information on breadth is displayed at the end of this entry.

Students who commenced the Bachelor of Environments prior to 2013 should refer to the handbook entry for the year they commenced in conjunction with the 2013 handbook listings for Environments electives and Breadth subjects.

### **Level 1 Core subjects - Bachelor of Environments (37.5 points)**

Core subjects that must be taken by all Bachelor of Environments students.

All of

| Subject                          | Study Period Commencement: | Credit Points: |
|----------------------------------|----------------------------|----------------|
| ENVS10001 Natural Environments   | Not offered 2013           | 12.50          |
| ENVS10002 Reshaping Environments | Not offered 2013           | 12.50          |
| ENVS10007 Urban Environments     | Not offered 2013           | 12.50          |

### **Level 1 Environments Electives (37.5 points)**

Select three of the following subjects.

N.B.

- # ENVS10009 Structural Environments must be taken by students intending to undertake the Construction major.
- # ENVS10005 Governing Environments is recommended.

| Subject                             | Study Period Commencement: | Credit Points: |
|-------------------------------------|----------------------------|----------------|
| ENVS10003 Constructing Environments | Not offered 2013           | 12.50          |
| ENVS10004 Designing Environments    | Not offered 2013           | 12.50          |
| ENVS10005 Governing Environments    | Not offered 2013           | 12.50          |
| ENVS10006 Mapping Environments      | Not offered 2013           | 12.50          |
| ENVS10008 Virtual Environments      | Semester 1                 | 12.50          |
| ENVS10009 Structural Environments   | Not offered 2013           | 12.50          |
| ENVS10010 Owned Environments        | Not offered 2013           | 12.50          |
| ENVS10011 Productive Environments   | Semester 2                 | 12.50          |

### **Construction major - core subjects (112.5 points)**

All of

| Subject  | Study Period Commencement: | Credit Points: |
|--|----------------------------|----------------|
| ABPL20036 Environmental Building Systems       | Semester 1                 | 12.50          |
| ABPL20041 The Construction Context             | Not offered 2013           | 12.50          |
| ABPL30038 Concrete Structures and Construction | Not offered 2013           | 12.50          |
| ABPL30039 Construction Contract Administration | Not offered 2013           | 12.50          |
| ABPL30040 Measurement of Building Works        | Not offered 2013           | 12.50          |
| ABPL30044 Project Planning Studio              | Not offered 2013           | 12.50          |
| ABPL30046 Structures and Construction Systems  | Not offered 2013           | 12.50          |

|   |                  |       |
|---|------------------|-------|
| ABPL30055 Construction Management                 | Semester 1       | 12.50 |
| ABPL20042 Residential Construction and Structures | Not offered 2013 | 12.50 |

### Level 2 Environments elective subjects (25 points)

Select two x 12.5 points subjects at Level 2 from the list of **Environments Discipline subjects** ([../view/current/%21B-ENVS-SPC%2B1000](#))

### Level 2 or Level 3 Environments elective subject (12.5 points)

Select one x 12.5 point subject at Level 2 or Level 3 from the list of **Environments Discipline subjects** ([../view/current/%21B-ENVS-SPC%2B1000](#))

### Breadth subjects

Bachelor of Environments students must complete between 50 and 75 credit points of subjects selected from those available as breadth for Bachelor of Environments students; with no more than 37.5 points at Level 1. For a complete listing of available subjects please click the 'Find breadth subjects' link on the **Handbook homepage** ([../](#)) and perform a search.

The breadth requirements for the Bachelor of Environments include the restriction of some subjects as breadth options, depending on an individual student's choice of major. Subjects in the Handbook that are marked as available as breadth in the Bachelor of Environments may be subject to further restrictions, depending up which major a student is completing in that course. Detailed information on these **Restrictions for Breadth Options** ([../view/CURRENT/IB-ENVS-SPC%2B1001](#)) is available.

Students who have previously completed VCE Mathematical Methods Units 3 and 4 (or equivalent) are not required to complete additional mathematics subjects. That subject (or equivalent) is a prerequisite for ECON10004 Introductory Microeconomics. Students who have completed VCE Mathematical Methods Units 1 and 2 only (or equivalent) will be eligible to enrol in MAST10012 Introduction to Mathematics which is an alternative prerequisite for ECON10004 Introductory Microeconomics.

In order to meet the requirements for accreditation, students intending to major in Construction are strongly recommended to undertake the following subjects as breadth.

| Subject                                   | Study Period Commencement: | Credit Points: |
|---|----------------------------|----------------|
| ECON10004 Introductory Microeconomics     | Semester 1, Semester 2     | 12.50          |
| BLAW10001 Principles of Business Law      | Not offered 2013           | 12.50          |
| MGMT20001 Organisational Behaviour        | Not offered 2013           | 12.50          |
| ACCT10001 Accounting Reports and Analysis | Not offered 2013           | 12.50          |

### Breadth restrictions for Construction major students

Students undertaking the Construction major are not permitted to take as breadth:

- # any Accounting subjects (subject codes beginning ACCT) - with the exception of ACCT10001 Accounting Reports and Analysis
- # any Civil Engineering subjects (subject codes beginning CVEN)
- # any Economics subjects (subject codes beginning ECON) - with the exception of ECON10004 Introductory Microeconomics
- # any Engineering subjects (subject codes beginning ENGR)
- # any Geomatics subjects (subject codes beginning GEOM)
- # any Management subjects (subject codes beginning MGMT) - with the exception of MGMT20001 Organisational Behaviour
- # any of the following Level 2 or Level 3 Property or Construction subjects:

| Subject                                    | Study Period Commencement: | Credit Points: |
|--|----------------------------|----------------|
| ABPL20031 Principles of Property           | Not offered 2013           | 12.50          |
| ABPL20004 Principles of Property Valuation | Not offered 2013           | 12.50          |
| ABPL20033 Construction Analysis            | Not offered 2013           | 12.50          |

|                           |   |                  |       |
|---------------------------|---|------------------|-------|
|                           | ABPL30006 Property Resource Analysis  | Semester 1       | 12.50 |
|                           | ABPL30012 Property Management   | Not offered 2013 | 12.50 |
|                           | ABPL30041 Construction Design   | Not offered 2013 | 12.50 |
|                           | ABPL30045 Property Analysis Studio  | Not offered 2013 | 12.50 |
|                           | ABPL20035 Cities: From Local to Global  | Not offered 2013 | 12.50 |
| <b>Notes:</b>             | For more information on this major and to view a sample course plan please visit: <a href="http://benvs.unimelb.edu.au/current-students/course-info">http://benvs.unimelb.edu.au/current-students/course-info</a> ( <a href="http://benvs.unimelb.edu.au/current-students/course-info">http://benvs.unimelb.edu.au/current-students/course-info</a> ) |                  |       |
| <b>Related Course(s):</b> | Bachelor of Environments  |                  |       |