



UOW
COLLEGE
AUSTRALIA

—
PATHWAYS TO
UNIVERSITY OF
WOLLONGONG

University Entrance Program

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Course Outline

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University Entrance Program Course Outline

1 Course Description

The University Entrance Program (UEP) provides an alternative entry to the University of Wollongong (UOW) for students who have not met the direct entry requirement to a bachelor degree. The focus is on effective transition to tertiary studies with a positive student identity and approach to learning. There are three Streams in the UEP program, allowing students to study subjects relevant to their chosen degree; Stream 1 in Business and Humanities; Stream 2 in the Sciences and Information Technology, and; Stream 3 in Engineering. The course is delivered in one session, is of 14 weeks duration, including 12 weeks of tuition and a two week study and examination period.

2 Graduate Qualities

The University Entrance Program is designed to assist students in developing the UOW College Australia Graduate Qualities. It helps students become:

1. **Informed:** Have a basic knowledge of an area of study and understand its issues. Know how to apply this knowledge.
2. **Independent Learners:** Begin to engage with new ideas and ways of thinking and critically analyse issues. Seek to extend knowledge through ongoing enquiry and active learning. Find and evaluate information, using a variety of sources and technologies. Acknowledge the work and ideas of others.
3. **Problem Solvers:** Demonstrate introductory levels of creative, logical and critical thinking skills to respond effectively to problems. Be flexible and thorough.
4. **Effective Communicators:** Articulate and convey ideas effectively using a range of media. Work collaboratively and engage with people in different settings.
5. **Responsible:** Understand how decisions can affect others and make ethically informed choices. Appreciate and respect diversity and act with integrity. Take responsibility for one's own learning and completion of assessment tasks.

3 Course Learning Outcomes

Graduates will be able to:

1. Demonstrate language and literacy skills in order to read, write, present and listen effectively at a tertiary level.
2. Demonstrate the ability to locate, evaluate and use information appropriately at a tertiary level.
3. Demonstrate the ability to utilise computer technology in order to function effectively in a university environment.
4. Demonstrate numeracy skills in order to interpret, understand and analyse information at a tertiary level.
5. Apply a range of skills that demonstrate independent learning.

4 Course Learning Outcomes Mapped to Graduate Qualities

The table below shows how the graduate qualities are integrated into the course learning outcomes:

Course Learning Outcomes/Graduate Qualities	1. Informed	2. Independent Learners	3. Problem Solvers	4. Effective Communicators	5. Responsible
1. Demonstrate language and literacy skills in order to read, write, present and listen effectively at a tertiary level.		✓		✓	
2. Demonstrate the ability to locate, evaluate and use information appropriately at a tertiary level.	✓	✓		✓	✓
3. Demonstrate the ability to utilise computer technology in order to function effectively in a university environment.	✓	✓		✓	✓
4. Demonstrate numeracy skills in order to interpret, understand and analyse information at a tertiary level.	✓		✓		
5. Apply a range of skills that demonstrate independent learning.		✓			✓

5 Course Structure and Subjects

STREAM 1 - BUSINESS AND THE HUMANITIES			
Subject Code	Subject Name	Credit Points	Hours a Week
PREP030	Launch	2	2*
PREP031	Language for Learning	6	4
PREP032	Scientific Thinking	6	4
PREP033	Mathematics for the Humanities	6	4
Total Session 1		20	14*

STREAM 2 - SCIENCE AND INFORMATION TECHNOLOGY			
Subject Code	Subject Name	Credit Points	Hours a Week
PREP030	Launch	2	2*
PREP031	Language for Learning	6	4
PREP032	Scientific Thinking	6	4
PREP034	Mathematics for the Sciences	8	8
Total Session 1		22	18*

STREAM 3 - ENGINEERING			
Subject Code	Subject Name	Credit Points	Hours a Week
PREP030	Launch	2	2*
PREP031	Language for Learning	6	4
PREP032	Scientific Thinking	6	4
PREP036 [^]	Mathematics for Engineering 1	8	8
Total Session 1		22	18*

* Weekly contact hours calculated for Launch are based on a sessional average.

[^] Stream 3 students with degree offers indicated in the table below in Section 7, must also study an additional subject, PREP037 Mathematics for Engineering 2. PREP036 Mathematics for Engineering 1 is a pre-requisite for PREP037 Mathematics for Engineering 2. Students must achieve a final subject mark of at least 60% in PREP036 to enrol in PREP037.

All Sessions in this course are delivered on UOW College session dates.

Bridging Subjects Applicants who do not meet course entry requirements in mathematics, as indicated in entry requirements available via the link in Section 8, may be eligible to attempt a bridging subject as per details below:

Stream 2 - PREP033 Mathematics for the Humanities. Students who achieve a final subject mark of 50% in PREP033 will be eligible to enrol in PREP034 Mathematics for the Sciences.

Stream 3 - PREP035 Algebra for Engineering. Students who achieve a final subject mark of 50% in PREP035 will be eligible to enrol in PREP036 Mathematics for Engineering 1.

Optional Electives FSPW022 Physics and FSPW023 Chemistry are available to UEP students and are recommended for students in Streams 2 and 3 who have not previously studied Physics and Chemistry, however, they are not required subjects. Students who elect to study these additional subjects are not required to pass these subjects in order to progress to their degree offer.

6 Subjects Mapped to Course Learning Outcomes

Subject/Course Learning Outcomes	1. Demonstrate language and literacy skills in order to read, write, present and listen effectively at a tertiary level.	2. Demonstrate the ability to locate, evaluate and use information appropriately at a tertiary level.	3. Demonstrate the ability to utilise computer technology in order to function effectively in a university environment.	4. Demonstrate numeracy skills in order to interpret, understand and analyse information at a tertiary level.	5. Apply a range of skills that demonstrate independent learning.
PREP030 Launch			✓		✓
PREP031 Language for Learning	✓	✓	✓		
PREP032 Scientific Thinking	✓	✓	✓		✓
PREP033 Mathematics for the Humanities				✓	
PREP034 Mathematics for the Sciences				✓	
PREP036 Mathematics for Engineering 1				✓	

7 Progression Guidelines

UEP Pathways to UOW Degree Programs

UOW Faculty, Degree and Course Code	Code	Stream
Faculty of the Arts, Social Sciences and the Humanities		
Bachelor of Arts (Psychology)	708	1
Bachelor of Education - The Early Years	1816	1
Bachelor of Geography	1708	2
Bachelor of Journalism	852	1
Bachelor of Mathematics Education [^]	886	3
Bachelor of Psychological Science	364	1
Bachelor of Science	1874	2
Bachelor of Sport	344	1
Bachelor of Sustainable Communities	370	1
Faculty of Engineering and Information Sciences		
Bachelor of Mathematics [^]	762	3
Bachelor of Medical and Radiation Physics [^]	847	3
Bachelor of Science [^]	757	3

* Students seeking a Bachelor of Mathematics Education offer must apply via the Universities Admissions Centre for that degree offer.

[^] Students with offers for these degrees, via UEP Stream 3, see Course Rule 2, below.

Progression to UOW Degree Course Offers

1. Students who have not met the Mathematics entry requirements to Stream 2, and who complete bridging subject PREP033 Mathematics for the Humanities, must achieve a minimum final subject mark of 50% in PREP033 to enrol in PREP034 Mathematics for the Sciences.
2. Students who have not met the Mathematics entry requirements to Stream 3, and who complete bridging subject PREP035 Algebra for Engineering, must achieve a minimum final subject mark of 50% in PREP035 to enrol in PREP036 Mathematics for Engineering 1.
3. To successfully complete the University Entrance Program and progress to the UOW degree offer, students in Streams 1, 2 and 3 must pass each subject with a final mark of at least 60%, or in the case of PREP030 Launch, a grade of Satisfactory. This does not apply to optional electives where no minimum result is required.
4. Students in UEP Stream 3, with offers for the following degrees: Bachelor of Mathematics Education; Bachelor of Mathematics; Bachelor of Medical and Radiation Physics, and; Bachelor of Science, must also study an additional subject, PREP037 Mathematics for Engineering 2 and achieve a final subject mark of at least 65% in this subject. The Stream 3 subject PREP036 Mathematics for Engineering 1 is a pre-requisite for PREP037 Mathematics for Engineering 2. Students must achieve a final subject mark of at least 60% in PREP036 to enrol in PREP037.
5. University Entrance Program subjects are not eligible for UOW credit transfer.

8 Entry Requirements / Admissions Guidelines

Entry requirements for this course can be viewed online at:

tbc

9 Assessment

Students are required to complete a number and variety of assessment tasks related to their streams of study.

Each subject has a subject outline that is issued to students. Subject outlines contain an overview of subject objectives, an assessment schedule, a list of learning resources and a weekly topic outline. Subject outlines also contain an explanation of assessment components.

All assessment tasks with a weighting of 10% or greater have marking criteria and an answer/marking guide.

All aspects of assessment are governed by the Assessment Guidelines, which can be viewed at: [Assessment & Examination Guidelines for Students](#) and [Assessment Guidelines](#).

10 Quality Assurance

The College applies formal quality assurance processes to its design of courses, subjects and their assessments. These processes include:

- Clear subject outlines that align with the objectives of the course and support consistent delivery of content;
- Mandatory inclusion of clear and appropriate marking criteria in assessment tasks;
- Moderation of marking of student assessment tasks, ensuring that the assessment criteria have been applied consistently and there is equity across individual markers;
- A regular schedule of audits on student assessment tasks using randomly-selected samples of student work; and
- The use of feedback from students and teachers to inform continuous improvement of curriculum, delivery, policies and procedures.

Details of the College's approach to quality assurance can be viewed at the following link: <https://www.uowcollege.edu.au/about/policies-procedures/index.html>.

11 Subject Descriptions

PREP030 Launch

This subject explores the common expectations and experiences of university study in order to assist students to transition effectively to a higher education learning environment. Students will be introduced to the technological platforms and skills required to effectively complete their studies, the importance of academic integrity, available support services and resources, and strategies to develop capabilities of independent learning. Students will be engaged in presentations and activities related to these aspects of academic life to cultivate the development of their student identity in the context of a learning community.

PREP031 Language for Learning

This subject provides students with opportunities to develop their knowledge of, and competence and confidence in the use of text-based language in preparation for future studies. Students will be introduced to a variety text types and genres commonly used in tertiary study, with a focus on engaging with, and critically analysing, sources of information in terms of purpose for writing, the style employed and writing techniques evident in the text. The focus is on developing language skills and improving students' capability to both evaluate the content of a variety of texts, and to employ that knowledge in their own written and spoken tasks.

PREP032 Scientific Thinking

This subject provides students with a functional understanding of the basic tenets of science, the underlying cognitive skills that allow us to solve complex problems, and strategies to investigate and interpret the world around us. Students will be challenged with problem-solving activities relevant to the sciences to develop a range of key cognitive capacities, including critical, logical and creative thinking, and an understanding of concepts such as objectivity, variables, theory, and Occam's razor. The focus is on developing skills required to design, conduct, analyse and present the findings of primary research related to a United Nations Sustainable Development Goal (UN SDG). Students will also develop their global citizenship through evaluating the significance of their selected SDG, and its relevance to their future study and career pathways.

PREP033 Mathematics for the Humanities

This subject provides an introductory study of mathematics and statistics as a foundation for further study in disciplines including Business and the Humanities. Mathematics for the Humanities focusses on reinforcing the fundamental concepts of basic arithmetic, basic algebra, linear equations, probability and statistics. The subject familiarises students with language, terminology and analytical problem-solving techniques used in mathematics and statistics.

PREP034 Mathematics for the Sciences

This subject provides a minimal assumed knowledge of mathematics for students entering a selection of Science and Technology degrees at an undergraduate level. The focus is on developing mathematics skills and improving competencies and confidence in the language and techniques of mathematics. The general topic areas covered in this subject are arithmetic, algebra, equations, functions, trigonometry, limits and calculus. Where possible science and technology applications will be used to demonstrate the relevance of these skills.

PREP036 Mathematics for Engineering 1

The focus of this subject is on developing mathematical skills and improving competence and confidence in the language and techniques of mathematics for Engineering and relevant disciplines. The general topics covered in this subject are: algebra, coordinate geometry, functions and trigonometry. Where appropriate, engineering problems will be used to demonstrate the relevance of these skills.

PREP037 Mathematics for Engineering 2

A major component of this subject is the introduction and development of techniques of calculus. The topics covered in this subject are: sequences and series, calculus and applications of calculus. The subject develops analytical problem-solving skills and provides opportunities for students to apply mathematical methods through problem solving.

Bridging Subject

PREP035 Algebra for Engineering

This subject provides students with the core knowledge and skills in arithmetic and algebra which will prepare them to undertake an introductory course in Calculus. The general topic areas covered in this subject are arithmetic, algebra. The focus is on developing mathematics skills and improving competencies and confidence in the language and techniques of mathematics.

Optional Electives

FSPW022 Physics

This subject is designed to provide an understanding of some of the physical laws governing the operation of the universe. This subject will prepare students for the study of science and engineering at University. It will also help the student evaluate whether they are able to continue to study physics at university as they are required to do for several science and all engineering subjects.

FSPW023 Chemistry

This subject introduces students to fundamental principles of chemistry and provides practical experience with basic chemical apparatus and techniques. This subject is directed towards students with little or no background in chemistry, and covers aspects of introductory physical and inorganic chemistry.

12 Version Control Table

Version Control	Date Effective	Approved By	Amendment
1	09/09/2021	UOWCA Academic Board	Initial release - 2022 delivery