

# Foundation Program

The Foundation Program provides you with an opportunity, within a supported academic context, to develop and enhance the necessary skills, and capabilities that you need to be successful in your chosen ECU degree. This program is taught on ECU's state-of-the-art Joondalup Campus West.

The program consists of 8 units of study and is completed over 2 study periods. Students who complete the ECC Foundation Program will be eligible for entry into Diploma courses at ECC and a range of Bachelor degrees at ECU. A minimum of 50 percent pass in all units is required for progression. Higher marks may be required for specific degree programs.

Important information for students	
Students complete 8 units in either the Generalist course or Engineering Streamed course.	
General Stream	Science Stream
FEA200 English for Academic Study	FEA200 English for Academic Study
FIC107 Introduction to Computing	FIC107 Introduction to Computing
FMT500 Introductory Mathematics	FMT500 Introductory Mathematics
FPM300 Project Management	FPH400 Introductory Physics
FAC210 Academic Communication Skills	FAC210 Academic Communication Skills
FCS220 Intercultural Studies	FCS220 Intercultural Studies
FIS420 Integrated Science	FAM510 Introductory Applied Mathematics
FMK329 Introductory Marketing	FIS420 Integrated Science

## UNIT DESCRIPTORS

### FEA200 English for Academic Study

This unit develops the language skills required for academic studies at higher education level. There is a focus on developing speaking skills in university seminars, listening and note-taking in lectures, critical reading of academic texts and basic essay writing. Students will develop their vocabulary range and their grammatical accuracy through a range of interactive activities.

### FAC210 Academic Communication Skills

This unit introduces the foundations of academic writing – from library research using databases, selection and critical reading of reliable academic sources, to writing paragraphs and essays, using the APA referencing system. Students develop and deliver oral presentations using multi-media. The unit also includes essential study skills to assist with time management, note-taking and the use of memory aids for study purposes.

### FCS220 Intercultural Studies

The unit introduces students to intercultural interaction in the contemporary world, focusing on multiple and diverse audiences, mobilities, globalisation, cultural symbols and values, language, and interpretations of intercultural sites. Students are given a practical introduction to intercultural communication, linguistic and cultural diversity and their implications for professional practice. Students will research, report and present on sites of intercultural communication that are relevant to their discipline / professional interests.

### **FIC107 Introduction to Computing**

This unit develops knowledge and skills in computing systems – software, hardware, digital security, communication networks, internet, information and data management. Students will develop their digital literacy and gain practical skills in specific computing applications from the Microsoft Office Suite.

### **FPM300 Project Management**

This unit introduces concepts and skills used by managers to propose, plan, secure resources, budget and lead project teams to successful project completion. Students will examine and apply fundamental principles, strategies and approaches for project management in a variety of contexts that are universally applicable across organisations and project types.

### **FMK329 Introductory Marketing**

This unit explains theoretical principles/practices for marketing in changing environments. It introduces fundamental marketing concepts (consumer behaviour, market research, product planning, promotion, distribution, services, pricing) across many institutions (government, manufacturing, services and not-for-profit sectors) and how marketing concepts are applied in the real world.

### **FPH400 Introductory Physics**

This unit is designed to provide students with knowledge in a broad range of physics concepts, and to help students identify the impact of physics and technology on society. It is designed for those who do not have a physics background at secondary level but wish to study engineering or physical sciences at the university. This unit covers theory and practical investigations, using logical and analytical thinking, as well as developing skills in communicating scientific information. Physics principles and methods applicable to Newton's Laws, forces, heat, motion, electricity, wave motion and optics are included.

### **FIS420 Integrated Science**

This integrated Science unit enables students to investigate science issues in the context of the world around them. It incorporates aspects of biology, chemistry, and physics, and is suited to students wishing to pursue a range of future career and study options. Integrated Science encourages students to be questioning, reflective and critical thinkers about scientific issues. Students develop a range of practical skills and techniques through investigations and fieldwork in context, and use scientific evidence to make informed decisions about scientific issues.

### **FMT500 Introductory Mathematics**

This unit is designed for students who require a general mathematics background suitable for studies in business, health sciences and computing/IT courses. Students will learn to use a scientific calculator and develop critical thinking skills to identify, analyse, synthesise and solve mathematical calculations in arithmetic, statistics, algebra, functions and their graphs, optimisation, sequences, series, growth and decay, trigonometry, geometric sequences, series, set theory and interest.

### **FAM510 Introductory Applied Mathematics**

This Mathematics unit is for students who wish to study Engineering, Physical Sciences, or technical, maths-related courses at university. Topics include mathematical modelling using functions and graphs; concepts, techniques and applications of differential and integral calculus; and analytic geometry. Students will solve problems linked to applications of differentiation (solving optimisation problems), integration (area and volume) and analytic geometry (properties of vectors in 2 and 3-dimensional space and solution of linear systems of equations).

### **Methods of Assessment at ECC**

Methods of assessment may differ depending on the program and subjects you choose. Most subjects will be assessed through a combination of written examinations and assignments, essays, presentations, seminars and tutorial participation. Some coursework will include group-based projects and practical activities. At the beginning of each unit, students are given an outline that includes due dates for the completion of assignments. Students who fail to meet these submission deadlines may be penalised even though the work was completed. Attending all classes is essential in order to be successful at ECC. **Flyer is current as of 23 May 2022.**