Diploma in Construction Management - Standard

Subject Descriptions

Mathematics B
The Mathematics B unit is designed and written to prepare students for further mathematical study at first year university level in courses that do not demand an in-depth study of Calculus.

Physics
Physics examines the general laws of motion and mechanics. Topics include work, energy, power, linear and angular momentum, vibrational motion, electricity and magnetism. Wave motion, sound, light, lenses and imaging systems are also studied.

Tertiary Study Skills
This non-award subject is designed to introduce students to academic writing conventions provide knowledge of different academic genres, taking lecture notes, exam preparation methods, effective study techniques and organisational skills.

Accounting Information for Managers
This unit provides exposure to financial and management accounting information from a user of accounting information viewpoint. The unit aims to provide breadth of awareness and knowledge in relevant fields of accounting essential to decision making for managers.

Building 1
This unit provides students with an overview of regulations and construction techniques with an emphasis on low-rise residential buildings in the Australian context. It covers general process; building regulations; environmental issues; surveying techniques; structural elements (footings, framing and bracing); envelope; services; fit-out and finishes.

Building 2
The aim of this unit is to provide students with an overview of the design, classification, applicable Australian Standards, structural systems, construction techniques, materials handling systems, building services, fit-out and finishes for larger scale buildings.

Engineering and Design Concepts
This unit equips students with the fundamental skills that will enable them to use creative design and engineering approaches to solve challenging problems and to understand the design process. Students will be exposed to 2D and 3D visualisation techniques, will learn how to interpret abstract information, and will work on practical projects in an interdisciplinary context.
Engineering Design and Construction Practice
This unit aims to engender in participants an understanding of the many facets of professional practice that can be pursued as an Engineer or Designer. Communication, teamwork and problem solving skills will be fostered through a series of lectures, tutorials and laboratory classes. Case studies and assessment tasks aim to develop for the students their own personal ethos for practice, study and lifelong learning in line with the graduate outcomes desired by UWS.

Introduction to Business Law
This is an introductory law unit designed to introduce the fundamentals of law in a commercial context. The unit introduces students to the basic principles of law and the legal system as well as examining some of the major areas of law that impact on commercial dealings. This unit examines the structure of the legal system, the way law is made, and legal problem solving. The main areas of law covered include contracts, torts, consumer protection and agency.

Management Dynamics
The unit provides an opportunity for students to engage with the dynamics of the management of organisations. Students will be introduced to the connection between the way work and systems are organized and managed and their impact on individuals and societies. This is achieved by using case based opportunities to examine real life contexts.

Physics and Materials
This unit serves as an introduction to the fundamentals of physics and materials with appropriate applications in a wide range of engineering and industrial design systems.