

Bachelor of Construction Management (Honours)(Top-Up)

RMIT University, Australia

Brief Outline of Modules

BUIL1233 Introduction to Construction Processes

This module focuses on the process of procuring a building or structure. Students will examine the process of construction in its historical, economic and practice based contexts.

BUIL1238 Building Measurement and Estimating

The module is designed to develop the techniques required to measure, quantify and cost construction work. Students will be introduced to the measurement rules as stipulated in the Standard Methods of Measurement and develop understanding of the tender documentation.

BUIL1144 Cost Planning and Tendering

At the conclusion of this module, students will understand the role of Cost Planning in overall building procurement, the impact of design on cost, and be able to prepare cost plans for low-rise building projects.

BUIL1267 Industrial Environment

Students will analyze and discuss current economic, environmental, political and social issues within the construction context. The module will develop an appreciation of interest groups, institutions, professions, political parties, unions, business and industries and how these work, and are understood within the construction industry.

BUIL1235 Managing for Sustainability

In this module you will be exposed to different views on the sustainability debate in relation to the environment; industry; economic issues and triple bottom line; sustainable management.

BUIL1259 Construction Technology 2

In this module you will develop knowledge and understanding of basic design principles which apply to the use of concrete and composite materials; construction techniques which apply to high rise construction; and construction technologies and materials applicable to the construction of a high rise building.

BUIL1253 Construction Contract Law

The module will cover key aspects of construction contract law including standard construction contracts; contentious clauses and the transfer of risk within contracts; various forms of contract and procurement routes; variations to contracts, claims, dispute resolution and related issues.

BUIL1309 Research Methods for the Built Environment

This module covers research methods and theoretical concepts that are widely used in Construction, Property & Valuation and Project Management research. In developing your research capability you will also develop skills in discussing and debating concepts relevant to these areas. This module will provide a foundation for future learning in Research Practice 1 and Research Practice 2 and will equip you to undertake research related to the Built Environment.

BUIL1240 Building Science

This module introduces you to the science of building design and construction. You will develop knowledge of building design principles and how design and actual construction impacts on building performance. The focus of the module is on how buildings interact with the environment.

BUIL1265 Construction Specialisation

The module will guide you through the most current research and/or practice of a chosen area so that you will be able to critically engage in current issues within the industry. Topics offered vary between years, but may typically include topics such as: Advanced Quantity Surveying Practice; Advanced Construction Management; Sustainability in the Built Environment.

BUIL1261 Construction Contract Administration

This module will equip you with skills to administer contractual issues arisen from the construction projects. The objectives of this course are to develop the skills and knowledge required to assess interim payments, variations, extension of time applications, loss and expenses claims; and to prepare professional reports in relation to insurance, bonds, determination of contractor's employment and final accounts.

BUIL1314 Management and Leadership in Construction

This module introduces you to key aspects of management and leadership in a construction environment. The objectives of this module are to develop your understanding of general management theories and their application in the construction industry. You will also develop your knowledge of organisational structure, leadership approaches and team dynamics and supply chain management.

BUIL1257 Integrated Building Information Modelling

This module applies construction theory in professional practice scenarios. The module develops an understanding of how construction techniques, measurement and estimating, and process planning are applied with a focus on Occupational Health & Safety, environmental management and compliance.

BUIL1263 Construction Capstone Project

This module is a culmination and integration of the key skills and knowledge developed throughout the Construction Management program. You will develop a detailed documentation such as a tender submission for a large urban project. This process will require you to determine a systemic understanding of the construction industry across many areas.

BUIL1311 Research Practice 1

(Pre-requisite module: BUIL1309 Research Methods for the Built Environment)

This module builds on the learning from BUIL1309 Research Methods for the Built Environment. Understanding of the research methodology will be further developed, and knowledge of your research topic will be expanded. Working under the guidance of your lecturer, and/or an academic supervisor from within the School, you will fully develop your research topic and proposal drawing upon published literature.

BUIL1315 Research Practice 2

(Pre-requisite module: BUIL 1311 Research Practice 1)

This module builds on the learning from BUIL1311 Research Practice 1. Under the guidance of your lecturer and/or an academic supervisor from within the School, you will apply your research knowledge and skills to further progress and complete your systematic research inquiry. In doing so, you will undertake and complete a thesis which will include research questions, literature review, methodology, findings and conclusions section. This module will further develop your understanding of your chosen research area and the industry and scholarly context and develop the skills and knowledge required to conduct independent and collaborative research to support your further study and professional practice.