Course requirements:

Each project proposal will be considered by a sub-committee of the Programme Committee, and will only be approved if the student has completed courses that are considered to be an appropriate preparation for the specific project (for example three related level 7 courses).

Students must enhance their depth of knowledge within the Computing Discipline and within their area of capability (that extends their knowledge and does not just use their existing knowledge). Usually, this will mean developing alternative solutions to a problem using a Computing solution. When proposing project ideas students must be mindful that they will be proposing a project in the domain of Computing. Usually this will be within one of the pathways offered for the Bachelor of Computing undertaking the role of a Computing professional:

- Software Engineering (programmer, architect, designer)
- Game Development (programmer, designer, developer)
- Cyber Security (malware analyst, network security engineer)
- Computer Networks & Cloud Computing (network engineer, network designer)
- Business Intelligence (database developer, database designer, business systems analyst)

Learning outcomes:

1. Prepare and present a project proposal and plan—usually in response to a client or workplace need.

2. Analyse and document user requirements.

3. Research and critically evaluate possible new developments that could impact the project.

4. Select appropriate techniques and technologies to apply to the project.

5. Apply the selected techniques and technologies.

6. Manage the project professionally, addressing ethical issues and project risks in an appropriate manner.

7. Analyse the project solving process followed, and identify possible improvements.

8. Document and present the project process and deliverables in a public forum.

Topics may include: students solving a realistic business problem in the Computing area of their study; students work closely with their sponsoring organisation and Unitec supervisor to understand and solve the problem presented; evidence of project management and the processes used are collected during the project.

Notes: Students are encouraged to work in teams and should be discouraged from working alone on projects. Wherever possible, students will be encouraged to undertake learning in the workplace. Any project must satisfy the programme committee that it of sufficient complexity and significant enough for a final year project. Students may, elect to produce a portfolio of mini-projects instead of a major undertaking—this will be encouraged for students undertaking part-time studies and working full-time. Students must be mindful of their obligations to study and if employed fulltime should undertake the project part-time.

Assessment:

Students will be advised of all matters relating to summative assessment at the outset of the course. Overall course grades will represent a balanced assessment of achievement in relation to all stated learning outcomes.