

# COMP 3018 PROFESSIONAL EXPERIENCE

**Credit Points** 10

**Legacy Code** 300579

**Coordinator** Rhys Tague ([https://directory.westernsydney.edu.au/search/name/Rhys Tague/](https://directory.westernsydney.edu.au/search/name/Rhys%20Tague/))

**Description** Professional Experience is a final year 'capstone' project subject. This subject provides opportunities for students to gain hands-on experience in software systems requirements definition, analysis, design and implementation, in a real-world setting. Students work in groups, guided by an academic supervisor or an industry mentor, in achieving the goals set by the client that provides the project. Suitable projects are sourced from external organisations or within Western Sydney University by way of giving the students professional experience in independent learning and reflective practice.

**School** Computer, Data & Math Sciences

**Discipline** Programming

**Student Contribution Band** HECS Band 2 10cp

Check your fees via the Fees ([https://www.westernsydney.edu.au/currentstudents/current\\_students/fees/](https://www.westernsydney.edu.au/currentstudents/current_students/fees/)) page.

**Level** Undergraduate Level 3 subject

**Pre-requisite(s)** Students in the Bachelor of Information and Communications Technology and associated double degrees with BICT are required to complete the following subjects  
INFS 2001 Database Design and Development AND  
COMP 3028 Software Construction AND  
INFO 3019 Project Management

Students in the Bachelor of Computer Science (catalogue term 2023 onwards) are required to complete the following subjects  
COMP 2009 Data Structures and Algorithms AND  
INFS 2001 Database Design and Development AND  
INFO 3019 Project Management

Students in the Bachelor of Computer Science (catalogue term 2019-2022) are required to pass three of the following subjects  
COMP 2020 Technologies for Web Applications OR COMP 2019 Systems Programming 1  
INFS 2001 Database Design and Development OR INFS 2002 Database Design and Development (Advanced)  
INFO 3008 Professional Development

Students in the Bachelor of Information Systems and associated double degrees are required to complete the following subjects  
INFS 2001 Database Design and Development OR  
INFS 2002 Database Design and Development (Advanced)  
AND  
COMP 2020 Technologies for Web Applications OR  
COMP 2019 Systems Programming 1  
AND  
INFO 3008 Professional Development

**Equivalent Subjects** INFS 3004

**Incompatible Subjects** INFO 3005

## Restrictions

Students must successfully complete 160 credit points, and be enrolled in the following programs:

- 2800 Bachelor of Information Systems/Bachelor of Laws
- 2837 Bachelor of Information and Communications Technology/  
Bachelor of Laws (Honours)
- 2841 Bachelor of Information Systems/Bachelor of Laws (Honours)
- 2842 Bachelor of Information Systems Advanced /Bachelor of Laws (Honours)
- 2768 Bachelor of Information and Communications Technology/  
Bachelor of Laws
- 3506 Bachelor of Computer Science
- 3639 Bachelor of Information and Communications Technology
- 3654 Bachelor of Information and Communications Technology/  
Bachelor of Arts
- 3687 Bachelor of Information Systems
- 3711 Bachelor of Information and Communications Technology  
(Health Information Management)
- 3737 Bachelor of Information and Communications Technology/  
Bachelor of Business
- 3738 Bachelor of Information and Communications Technology/  
Bachelor of Business (Accounting)
- 3744 Bachelor of Information Systems/Bachelor of Business
- 6038 Diploma/Bachelor of Information and Communications  
Technology (Health Information Management)
- 6039 Diploma/Bachelor of Information and Communications  
Technology
- 6040 Diploma in Information and Communications Technology /  
Bachelor of Information Systems

## Assumed Knowledge

Software development methodologies; Software analysis and design modelling tools and techniques; Programming languages; Implementing databases management systems; Software construction and testing.

## Learning Outcomes

On successful completion of this subject, students should be able to:

1. Complete all tasks in the SDLC to produce a software product or a component of one, working independently and under constraints, in a group setting.
2. Produce a full set of professional level documents covering all phases of the SDLC.
3. Integrate skills and knowledge gained from previous units as required by your project.
4. Apply newly learned technologies to the completion of project activities.
5. Mitigate probable risks when planning, organising and controlling project activities.

6. Reflect back on your learning experience and the issues involved when managing software development projects.
7. Demonstrate verbal communication skills when presenting a developed system to a diverse audience.

Type	Length	Percent	Threshold	Individual/ Group Task
Applied Project	1.1 Project Plan - Approximately 3,500 words (7-10 pages) (5%) Group submission ** 1.2 Project Proposal - Approximately 3,500 words (7-10 Pages) (5%) Group submission ** 1.3 Systems Analysis & Design Report - Approximately 7,500 words (15-20 Pages) (15%) Group submission ** 1.4 Handover & Completion Report - Approximately 2,500 words (5-7 Pages) (5%) Group submission ** 1.5 Diary and Reflections Report Diary (at least 2 entries per week with each entry of 100-250 words of length). Reflections Report (600 words) 1-2 pages (5%). Individual submission. ** Used as part of the 'groupmark-component' in calculation of Individual Marks in the individual marks calculation tool.	35	N	Group/ Individual

## Subject Content

1. Software system lifecycle including requirements for a software system, software solutions that satisfy requirements, and tools and techniques for the assurance of quality and compliance of the software system throughout its development life cycle
2. Project planning and management
3. Stakeholder management
4. Negotiation, collaboration
5. Reflection for improved performance, professional development and lifelong learning
6. Documentation requirements for communicating software systems requirements and design (technical documentation & document version control)
7. Communication of designs, solutions, ideas to stakeholders

## Assessment

The following table summarises the standard assessment tasks for this subject. Please note this is a guide only. Assessment tasks are regularly updated, where there is a difference your Learning Guide takes precedence.

Applied Project	2.1 Working Prototype - Demonstrable working prototype that gives the client an idea how the end product would look like (Full functionality is not required) (10%) Group submission **; 2.2 Completed Final System - Fully functional system, with appropriate base data (where required), that meets all system requirements identified. (40%) Group submission **; ** Used as part of the 'group-mark-component' in calculation of Individual Marks in the individual marks calculation tool.	50	N	Group/ Individual
Applied Project	3.1 Final Presentation - (25 minutes) (10%) Group Presentation **; 3.2 Abstract & Video - Project Abstract 400 words (1 page) AND Video- (5-8 minutes) (5%) Group submission *	15	N	Group

## Prescribed Texts

- No Essential texts

## Teaching Periods

**Autumn (2024)****Campbelltown****On-site**

**Subject Contact** Anupama Ginige ([https://directory.westernsydney.edu.au/search/name/Anupama Ginige/](https://directory.westernsydney.edu.au/search/name/Anupama%20Ginige/))

View timetable ([https://classregistration.westernsydney.edu.au/even/timetable/?subject\\_code=COMP3018\\_24-AUT\\_CA\\_1#subjects](https://classregistration.westernsydney.edu.au/even/timetable/?subject_code=COMP3018_24-AUT_CA_1#subjects))

**Penrith (Kingswood)****On-site**

**Subject Contact** Anupama Ginige ([https://directory.westernsydney.edu.au/search/name/Anupama Ginige/](https://directory.westernsydney.edu.au/search/name/Anupama%20Ginige/))

View timetable ([https://classregistration.westernsydney.edu.au/even/timetable/?subject\\_code=COMP3018\\_24-AUT\\_KW\\_1#subjects](https://classregistration.westernsydney.edu.au/even/timetable/?subject_code=COMP3018_24-AUT_KW_1#subjects))

**Parramatta - Victoria Rd****On-site**

**Subject Contact** Anupama Ginige ([https://directory.westernsydney.edu.au/search/name/Anupama Ginige/](https://directory.westernsydney.edu.au/search/name/Anupama%20Ginige/))

View timetable ([https://classregistration.westernsydney.edu.au/even/timetable/?subject\\_code=COMP3018\\_24-AUT\\_PS\\_1#subjects](https://classregistration.westernsydney.edu.au/even/timetable/?subject_code=COMP3018_24-AUT_PS_1#subjects))

**Sydney City Campus - Term 1 (2024)****Sydney City****On-site**

**Subject Contact** Antoinette Cevenini ([https://directory.westernsydney.edu.au/search/name/Antoinette Cevenini/](https://directory.westernsydney.edu.au/search/name/Antoinette%20Cevenini/))

View timetable ([https://classregistration.westernsydney.edu.au/even/timetable/?subject\\_code=COMP3018\\_24-SC1\\_SC\\_1#subjects](https://classregistration.westernsydney.edu.au/even/timetable/?subject_code=COMP3018_24-SC1_SC_1#subjects))

**Sydney City Campus - Term 2 (2024)****Sydney City****On-site**

**Subject Contact** Antoinette Cevenini ([https://directory.westernsydney.edu.au/search/name/Antoinette Cevenini/](https://directory.westernsydney.edu.au/search/name/Antoinette%20Cevenini/))

View timetable ([https://classregistration.westernsydney.edu.au/even/timetable/?subject\\_code=COMP3018\\_24-SC2\\_SC\\_1#subjects](https://classregistration.westernsydney.edu.au/even/timetable/?subject_code=COMP3018_24-SC2_SC_1#subjects))

**Spring (2024)****Campbelltown****On-site**

**Subject Contact** Rhys Tague ([https://directory.westernsydney.edu.au/search/name/Rhys Tague/](https://directory.westernsydney.edu.au/search/name/Rhys%20Tague/))

View timetable ([https://classregistration.westernsydney.edu.au/even/timetable/?subject\\_code=COMP3018\\_24-SPR\\_CA\\_1#subjects](https://classregistration.westernsydney.edu.au/even/timetable/?subject_code=COMP3018_24-SPR_CA_1#subjects))

**Penrith (Kingswood)****On-site**

**Subject Contact** Rhys Tague ([https://directory.westernsydney.edu.au/search/name/Rhys Tague/](https://directory.westernsydney.edu.au/search/name/Rhys%20Tague/))

View timetable ([https://classregistration.westernsydney.edu.au/even/timetable/?subject\\_code=COMP3018\\_24-SPR\\_KW\\_1#subjects](https://classregistration.westernsydney.edu.au/even/timetable/?subject_code=COMP3018_24-SPR_KW_1#subjects))

**Parramatta - Victoria Rd****On-site**

**Subject Contact** Rhys Tague ([https://directory.westernsydney.edu.au/search/name/Rhys Tague/](https://directory.westernsydney.edu.au/search/name/Rhys%20Tague/))

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## **Sydney City Campus - Term 3 (2024)**

### **Sydney City**

#### **On-site**

**Subject Contact** Antoinette Cevenini ([https://directory.westernsydney.edu.au/search/name/Antoinette Cevenini/](https://directory.westernsydney.edu.au/search/name/Antoinette%20Cevenini/))

View timetable ([https://classregistration.westernsydney.edu.au/even/timetable/?subject\\_code=COMP3018\\_24-SC3\\_SC\\_1#subjects](https://classregistration.westernsydney.edu.au/even/timetable/?subject_code=COMP3018_24-SC3_SC_1#subjects))