

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 HECS Band contribution amount via the 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 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 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.

Subject Content

1. Software system lifecycle including requirements for a software system, software solutions that satisfy requirements, and tools

	Type	Length	Percent	Threshold	Individual/ Group Task
and techniques for the assurance of quality and compliance of the software system throughout its development life cycle					
2. Project planning and management	Applied	1.1 Project	35	N	Group/ Individual
3. Stakeholder management	Project	Plan -			
4. Negotiation, collaboration		Approximately			
5. Reflection for improved performance, professional development and lifelong learning		3,500 words			
6. Documentation requirements for communicating software systems requirements and design (technical documentation & document version control)		(7-10 pages)			
7. Communication of designs, solutions, ideas to stakeholders		(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.			

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 (2022)**Campbelltown****Day**

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View timetable (https://classregistration.westernsydney.edu.au/even/timetable/?subject_code=COMP3018_22-AUT_CA_D#subjects)

Penrith (Kingswood)**Day**

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Parramatta - Victoria Rd**Day**

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Sydney City Campus - Term 1 (2022)**Sydney City****Day**

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Sydney City Campus - Term 2 (2022)**Sydney City****Day**

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Spring (2022)**Campbelltown****Day**

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Sydney City Campus - Term 3 (2022)

Sydney City

Day

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Autumn (2023)

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/))

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Penrith (Kingswood)

On-site

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Parramatta - Victoria Rd

On-site

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Sydney City Campus - Term 1 (2023)

Sydney City

On-site

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Sydney City Campus - Term 2 (2023)

Sydney City

On-site

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Spring (2023)

Campbelltown

On-site

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Sydney City

On-site

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