SOFTWARE DEVELOPMENT, TESTAMUR MAJOR (T148)

Western Sydney University Major Code: T148

Available to students in other Western Sydney University Programs: Yes. Check that your program has the available credit points required to complete the subjects in this field of study. Any requisite requirements must also be met. Consult your Program Advisor for further advice.

In this major, students learn how to create high quality software to meet client needs. This involves applying the theories and practices of software development to determine requirements, design and deliver solutions. In this software development lifecycle process, students use a range of technologies, and programming skills used for the development of software systems and distributed applications. In addition, students develop the ability to identify, analyse, and formulate solutions to real-world problems in the software development domain. In devising these solutions students also consider principles associated with user interface design, professional and ethical issues, in particular those relating to security and privacy of user data and user behaviour related to software development and associated applications.

Location

Campus	Attendance	Mode	Advice
Campbelltown Campus	Full-time	Internal	cdms@westernsydney.edu.au
Campbelltown Campus	Part-time	Internal	cdms@westernsydney.edu.au
Parramatta Victoria Road Campus	Full-time	Internal	cdms@westernsydney.edu.au
Parramatta Victoria Road Campus	Part-time	Internal	cdms@westernsydney.edu.au
Penrith Campus	Full-time	Internal	cdms@westernsydney.edu.au
Penrith Campus	Part-time	Internal	cdms@westernsydney.edu.au
Sydney City Campus	Full-time	Part-time	a.cevenini@city.westernsydney.edu.au
Sydney City Campus	Part-time	Internal	a.cevenini@city.westernsydney.edu.au

This major structure applies to students who commenced in Autumn 2023.

Students must complete 80 credit points as follows

Subject	Title	Credit Points
COMP 2009	Data Structures and Algorithms	10
COMP 3013	Mobile Applications Development	10
MATH 1006	Discrete Mathematics	10
INFO 3003	Human-Computer Interaction	10
COMP 3012	Introduction to Cloud Computing	10
COMP 3036 Full Stack Development		10
Select one of the following		10
COMP 2029	DevOps	
COMP 3009	Distributed Systems and Programming	
COMP 3015	Operating Systems Programming	
Select one of the following		10
INFO 3011	Social Computing	
COMP 2023	Mathematical Programming	
COMP 1013	Analytics Programming	
Total Credit Points		**80**

This sequence applies to students who commenced in Spring 2023.

If you commenced in Autumn 2023 please refer to the Autumn 2023 Sequence tab for details.

Students must complete 80 credit points as follows

Subject	Title	Credit Points
COMP 2009	Data Structures and Algorithms	10
COMP 3013	Mobile Applications Development	10
INFO 3003	Human-Computer Interaction	10
COMP 3012	Introduction to Cloud Computing	10
COMP 3036 Full Stack Development		10
Select one of the following		10
COMP 2029	DevOps	
COMP 3009	Distributed Systems and Programming	
COMP 3015	Operating Systems Programming	
Select one of the following		10
INFO 3011	Social Computing	
COMP 2023	Mathematical Programming	
COMP 1013	Analytics Programming	
** Select one of the following		10
** Students who NOT completed MATH 1006 in the program core, MUST complete MATH 1006		
MATH 1006	Discrete Mathematics	
** Students who HAVE completed MATH 1006 in the program core, MUST complete either MATH 2009 or MATH 2010		
MATH 2009	Introduction to Data Science	
MATH 2010	Linear Algebra	
Total Credit Points		**80**

Bachelor of Information and Communications Technology (3639) (https://hbook.westernsydney.edu.au/archives/2022-2023/programs/bachelor-information-communications-technology/)

Bachelor of Information and Communications Technology (Advanced) (3684) (https://hbook.westernsydney.edu.au/archives/2022-2023/programs/bachelor-information-communications-technology-advanced/)