

HEALTH INFORMATICS, TESTAMUR MAJOR (T007)

Western Sydney University Major Code: T007

Previous Code: ST3091.1

Available to students in other Western Sydney University programs?

No

Increasingly, healthcare information is being captured electronically and newer technology modes are being applied in many innovative ways to support efficient and effective clinical care. Students completing this major develop an understanding of Information and Communications Technology (ICT) concepts in healthcare including electronic healthcare records; healthcare data analysis; fundamentals of medicine concepts and terminologies; disease and intervention classification systems; healthcare IT system interoperability and design. This major will prepare students for the ICT challenges ahead in the healthcare domain and equip them with the knowledge and skills for taking up employment opportunities within public and private healthcare providers and technology suppliers.

Location

Campus	Attendance	Mode	Advice	Subject	Title	Credit Points
Penrith	Full time	Internal	Dr Simi Kamini Bajaj (https://hbook.westernsydney.edu.au/) majors-minors/health-informatics-pg-testamur-major/k.bajaj@westernsydney.edu.au	PUBH 2004	Clinical Classification and Coding	10
Penrith	Part time	Internal	Dr Simi Kamini Bajaj (https://hbook.westernsydney.edu.au/) majors-minors/health-informatics-pg-testamur-major/k.bajaj@westernsydney.edu.au	INFS 3002	Advanced Clinical Classification	10

Major Structure

Master of Information and Communications Technology and Master of Information and Communications Technology (Advanced)

Students in Master of Information and Communications Technology and Master of Information and Communications Technology (Advanced) complete the following

Subject	Title	Credit Points	Subject	Title	Credit Points
Students must complete the following three subjects:					
PUBH 7001	Advanced Health Classifications and Coding	10	PUBH 2004	Clinical Classification and Coding	10
INFS 7001	Advanced Healthcare Data Environments	10	INFS 2001	Database Design and Development	10
INFS 7002	Advanced Healthcare Software and Systems	10	HLTH 2007	Fundamentals of Medical Concepts and Terminology	10
Select one of the following:		10	INFS 3010	Healthcare Data Environments	10
COMP 7016	Visualisation		INFS 3011	Healthcare Software and Systems	10
MATH 7016	The Nature of Data		INFO 3003	Human-Computer Interaction	10
Total Credit Points		40	INFS 2004	Introduction to Health Informatics	10

Master of Data Science

Students in Master of Data Science complete the following

Subject	Title	Credit Points
PUBH 7001	Advanced Health Classifications and Coding	10
INFS 7001	Advanced Healthcare Data Environments	10
INFS 7002	Advanced Healthcare Software and Systems	10
INFS 7007	Systems Analysis and Database Management Systems	10
Total Credit Points		40

Master of Information and Communications Technology/Master of Data Science

Subject	Title	Credit Points
PUBH 7001	Advanced Health Classifications and Coding	10
INFS 7001	Advanced Healthcare Data Environments	10
INFS 7002	Advanced Healthcare Software and Systems	10
COMP 7004	Cloud Computing	10
Total Credit Points		40

Bachelor of Information Systems and Bachelor of Information Systems (Advanced) - 2025

Students enrolled in the Bachelor of Information Systems and the Bachelor of Information Systems (Advanced) must complete 80 credit points as follows

Subject	Title	Credit Points
PUBH 2004	Clinical Classification and Coding	10
INFS 3002	Advanced Clinical Classification	10
HLTH 2007	Fundamentals of Medical Concepts and Terminology	10
INFS 3010	Healthcare Data Environments	10
INFS 3011	Healthcare Software and Systems	10
COMP 2025	Introduction to Data Science	10
INFS 2004	Introduction to Health Informatics	10
INFS 3001	Activity Based Funding/Casemix and Data Quality	10
Total Credit Points		80

Bachelor of Information Systems and Bachelor of Information Systems (Advanced) - 2022-2024

Students enrolled in the Bachelor of Information Systems and the Bachelor of Information Systems (Advanced) must complete 80 credit points as follows

Subject	Title	Credit Points
Students must complete the following three subjects:		
PUBH 7001	Advanced Health Classifications and Coding	10
INFS 7001	Advanced Healthcare Data Environments	10
INFS 7002	Advanced Healthcare Software and Systems	10
Select one of the following:		10
COMP 7016	Visualisation	
MATH 7016	The Nature of Data	
Total Credit Points		40
Subject		Credit Points
PUBH 2004	Clinical Classification and Coding	10
INFS 2001	Database Design and Development	10
HLTH 2007	Fundamentals of Medical Concepts and Terminology	10
INFS 3010	Healthcare Data Environments	10
INFS 3011	Healthcare Software and Systems	10
INFO 3003	Human-Computer Interaction	10
INFS 2004	Introduction to Health Informatics	10

INFS 1006	Systems Analysis and Design	10	Master of Data Science (3735) (https://hbook.westernsydney.edu.au/archives/2024-2025/programs/master-data-science/)
Total Credit Points		80	Master of Information and Communications Technology/Master of Data Science (3780) (https://hbook.westernsydney.edu.au/archives/2024-2025/programs/master-information-communications-technologymaster-data-science/)
Bachelor of Information and Communications Technology and Bachelor of Information and Communications Technology (Advanced)			
Students enrolled in the Bachelor of Information and Communications Technology and the Bachelor of Information and Communications Technology (Advanced) must complete 80 credit points as follows			
Subject	Title	Credit Points	Master of Information and Communications Technology (3699) (https://hbook.westernsydney.edu.au/archives/2024-2025/programs/master-information-communications-technology/)
PUBH 2004	Clinical Classification and Coding	10	Master of Information and Communications Technology (Advanced) (3698) (https://hbook.westernsydney.edu.au/archives/2024-2025/programs/master-information-communications-technology-advanced/)
INFS 3002	Advanced Clinical Classification	10	
HLTH 2007	Fundamentals of Medical Concepts and Terminology	10	
INFS 3010	Healthcare Data Environments	10	
INFS 3011	Healthcare Software and Systems	10	
COMP 2025	Introduction to Data Science	10	
INFS 2004	Introduction to Health Informatics	10	
INFS 3001	Activity Based Funding/Casemix and Data Quality	10	
Total Credit Points		80	

Equivalent Subjects

The subjects listed below count towards completion of this program for students who passed these subjects in 2021 or earlier.

MATH 2009 (<https://hbook.westernsydney.edu.au/archives/2024-2025/search/?P=MATH%202009>) Introduction to Data Science is replaced by COMP 2025 (<https://hbook.westernsydney.edu.au/archives/2024-2025/search/?P=COMP%202025>) Introduction to Data Science

Bachelor of Data Science

Students enrolled in the Bachelor of Data Science must complete 80 credit points as follows

Subject	Title	Credit Points
PUBH 2004	Clinical Classification and Coding	10
INFS 3002	Advanced Clinical Classification	10
HLTH 2007	Fundamentals of Medical Concepts and Terminology	10
INFS 3010	Healthcare Data Environments	10
INFS 3011	Healthcare Software and Systems	10
MATH 2011	Making Sense of Data	10
INFS 2004	Introduction to Health Informatics	10
INFS 3001	Activity Based Funding/Casemix and Data Quality	10
Total Credit Points		80

Related Programs

Bachelor of Information and Communications Technology (3639) (<https://hbook.westernsydney.edu.au/archives/2024-2025/programs/bachelor-information-communications-technology/>)

Bachelor of Information and Communications Technology (Advanced) (3684) (<https://hbook.westernsydney.edu.au/archives/2024-2025/programs/bachelor-information-communications-technology-advanced/>)