

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 |
|---------|------------|----------|--|
| 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 |
| 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 |

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 |
|--|--|---------------|
| 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: | | |
| COMP 7016 | Visualisation | 10 |
| MATH 7016 | The Nature of Data | 10 |
| Total Credit Points | | 40 |

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 |
|-----------|--|---------------|
| 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 |
| Total Credit Points | | 80 |

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 |
|----------------------------|--|---------------|
| 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 |

Equivalent Subjects

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

MATH 2009 Introduction to Data Science is replaced by COMP 2025 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/programs/bachelor-information-communications-technology/>)

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

Master of Data Science (3735) (<https://hbook.westernsydney.edu.au/programs/master-data-science/>)

Master of Information and Communications Technology/Master of Data Science (3780) (<https://hbook.westernsydney.edu.au/programs/master-information-communications-technologymaster-data-science/>)

Master of Information and Communications Technology (3699) (<https://hbook.westernsydney.edu.au/programs/master-information-communications-technology/>)

Master of Information and Communications Technology (Advanced) (3698) (<https://hbook.westernsydney.edu.au/programs/master-information-communications-technology-advanced/>)