

# HEALTH INFORMATICS, MAJOR (0037)

Western Sydney University Major Code: 0037

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	Internal	Internal	Program Advice

## Inherent Requirements

There are inherent requirements for this major that you must meet in order to complete the major and graduate. Make sure you read and understand the requirements for this major online.

Inherent Requirements ([http://www.uws.edu.au/ir/inherent\\_requirements/inherent\\_requirements\\_for\\_accounting\\_courses/](http://www.uws.edu.au/ir/inherent_requirements/inherent_requirements_for_accounting_courses/))

## Major Structure

This structure applies to students who commenced in Autumn 2025 or later. If you commenced in Spring 2024 or earlier, please refer to the relevant Structure tab for details.

Qualification for this major requires the successful completion of 80 credit points including the core subjects listed below.

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
Select one of the following:		10
COMP 2025	Introduction to Data Science	
MATH 2011	Making Sense of Data	
<b>Total Credit Points</b>		<b>80</b>

## Bachelor of Information Systems OR Bachelor of Information Systems (Advanced)

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 Data Science

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**

## Bachelor of Information and Communications Technology OR Bachelor of Information and Communications Technology (Advanced)

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**

## Major Structure

This structure applies to students who commenced between Autumn 2023 and Spring 2024. If you commenced in Autumn 2025, please refer to the current Structure tab for details.

Qualification for this major requires the successful completion of 80 credit points including the core subjects listed below.

Subject	Title	Credit Points
PUBH 2004	Clinical Classification and Coding	10
HLTH 2007	Fundamentals of Medical Concepts and Terminology	10
INFS 2004	Introduction to Health Informatics	10
INFS 3002	Advanced Clinical Classification	10
INFS 3010	Healthcare Data Environments	10
INFS 3011	Healthcare Software and Systems	10

INFS 3001	Activity Based Funding/Casemix and Data Quality	10	INFS 3011	Healthcare Software and Systems	10
Select one of the following:		10	MATH 2011	Making Sense of Data	10
INFS 2001	Database Design and Development		INFS 2004	Introduction to Health Informatics	10
INFO 3003	Human-Computer Interaction		INFS 3001	Activity Based Funding/Casemix and Data Quality	10
MATH 2009	Introduction to Data Science				
MATH 2011	Making Sense of Data				
<b>Total Credit Points</b>		<b>80</b>	<b>Total Credit Points</b>		<b>80</b>

## Bachelor of Information Systems OR the Bachelor of Information Systems (Advanced)

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

Subject	Title	Credit Points	
PUBH 2004	Clinical Classification and Coding	10	B Bachelor of Data Science (3769) ( <a href="https://hbook.westernsydney.edu.au/archives/2024-2025/programs/bachelor-data-science/">https://hbook.westernsydney.edu.au/archives/2024-2025/programs/bachelor-data-science/</a> )
INFS 2001	Database Design and Development	10	B Bachelor of Health Science (4656) ( <a href="https://hbook.westernsydney.edu.au/archives/2024-2025/programs/bachelor-health-science/">https://hbook.westernsydney.edu.au/archives/2024-2025/programs/bachelor-health-science/</a> )
HLTH 2007	Fundamentals of Medical Concepts and Terminology	10	B Bachelor of Information and Communications Technology (3639) ( <a href="https://hbook.westernsydney.edu.au/archives/2024-2025/programs/bachelor-information-communications-technology/">https://hbook.westernsydney.edu.au/archives/2024-2025/programs/bachelor-information-communications-technology/</a> )
INFS 3010	Healthcare Data Environments	10	B Bachelor of Information and Communications Technology (Advanced) (3684) ( <a href="https://hbook.westernsydney.edu.au/archives/2024-2025/programs/bachelor-information-communications-technology-advanced/">https://hbook.westernsydney.edu.au/archives/2024-2025/programs/bachelor-information-communications-technology-advanced/</a> )
INFS 3011	Healthcare Software and Systems	10	Dip ICT/B ICT
INFO 3003	Human-Computer Interaction	10	Diploma in Information and Communications Technology / Bachelor of Information Systems (6040) ( <a href="https://hbook.westernsydney.edu.au/archives/2024-2025/programs/diploma-information-communications-technology-bachelor-information-systems/">https://hbook.westernsydney.edu.au/archives/2024-2025/programs/diploma-information-communications-technology-bachelor-information-systems/</a> )
INFS 2004	Introduction to Health Informatics	10	Diploma in Information and Communications Technology (7163) ( <a href="https://hbook.westernsydney.edu.au/archives/2024-2025/programs/diploma-information-communications-technology/">https://hbook.westernsydney.edu.au/archives/2024-2025/programs/diploma-information-communications-technology/</a> )
INFS 1006	Systems Analysis and Design	10	
<b>Total Credit Points</b>		<b>80</b>	

## Bachelor of Information and Communications Technology OR the Bachelor of Information and Communications Technology (Advanced)

Students enrolled in the Bachelor of Information and Communications Technology OR 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
MATH 2009	Introduction to Data Science	10
INFS 2004	Introduction to Health Informatics	10
INFS 3001	Activity Based Funding/Casemix and Data Quality	10
<b>Total Credit Points</b>		<b>80</b>

## 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