

# INFS 3011 HEALTHCARE SOFTWARE AND SYSTEMS

**Credit Points** 10

**Legacy Code** 300956

**Coordinator** Jim Basilakis ([https://directory.westernsydney.edu.au/search/name/Jim Basilakis/](https://directory.westernsydney.edu.au/search/name/Jim%20Basilakis/))

**Description** In this unit students will learn the concepts underpinning the services computing paradigm of "bridging the gap between Business Services and IT Services". Services Computing technology includes Web services and serviceoriented architecture (SOA), business consulting methodology and utilities, business process modelling, transformation and integration. Students will learn, through the development of practical examples, how to utilise these technologies within a healthcare context

**School** Computer, Data & Math Sciences

**Discipline** Information Systems

**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/](https://www.westernsydney.edu.au/currentstudents/current_students/fees/)) page.

**Level** Undergraduate Level 3 subject

**Pre-requisite(s)** INFS 2004

**Equivalent Subjects** INFO 3009 Services Computing in Healthcare

## Learning Outcomes

On successful completion of this subject, students should be able to:

1. Describe the purpose and the basic functional and practical elements of Web Services for healthcare applications (including an overview of XML related technologies)
2. Design high level user and technical specification of Web Services for healthcare applications.
3. Identify and articulate areas within healthcare where Web Services can be utilised, and how this might be achieved.
4. Identify and articulate the particular needs of business process modelling, transformation and integration within healthcare.
5. Describe and analyse the operations of specific Web Services in healthcare applications, including Clinical Decision Support and Health Portals
6. Apply highly developed and technically advanced written presentation skills in describing Web Services for healthcare applications.

## Subject Content

XML related technologies and Web Services

Integration of applications and information within healthcare (eg Clinical Decision Support)

Service oriented architecture for health applications (eg Health Portals)

Business process modelling, transformation and integration in a healthcare context

## 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.

Item	Length	Percent	Threshold	Individual/Group Task
Report	1,500 - 2,000 words	35	N	Individual
Report	5-6 pages (2500-3000)	35	N	Individual
Final Exam	2 hours	30	N	Individual

Teaching Periods

### Spring Campbelltown

#### Day

**Subject Contact** Jim Basilakis ([https://directory.westernsydney.edu.au/search/name/Jim Basilakis/](https://directory.westernsydney.edu.au/search/name/Jim%20Basilakis/))

View timetable ([https://classregistration.westernsydney.edu.au/even/timetable/?subject\\_code=INFS3011\\_22-SPR\\_CA\\_D#subjects](https://classregistration.westernsydney.edu.au/even/timetable/?subject_code=INFS3011_22-SPR_CA_D#subjects))

### Penrith (Kingswood)

#### Day

**Subject Contact** Jim Basilakis ([https://directory.westernsydney.edu.au/search/name/Jim Basilakis/](https://directory.westernsydney.edu.au/search/name/Jim%20Basilakis/))

View timetable ([https://classregistration.westernsydney.edu.au/even/timetable/?subject\\_code=INFS3011\\_22-SPR\\_KW\\_D#subjects](https://classregistration.westernsydney.edu.au/even/timetable/?subject_code=INFS3011_22-SPR_KW_D#subjects))

### Online

#### Online

**Subject Contact** Tomas Trescak ([https://directory.westernsydney.edu.au/search/name/Tomas Trescak/](https://directory.westernsydney.edu.au/search/name/Tomas%20Trescak/))

View timetable ([https://classregistration.westernsydney.edu.au/even/timetable/?subject\\_code=INFS3011\\_22-SPR\\_ON\\_O#subjects](https://classregistration.westernsydney.edu.au/even/timetable/?subject_code=INFS3011_22-SPR_ON_O#subjects))

### Parramatta - Victoria Rd

#### Day

**Subject Contact** Jim Basilakis ([https://directory.westernsydney.edu.au/search/name/Jim Basilakis/](https://directory.westernsydney.edu.au/search/name/Jim%20Basilakis/))

View timetable ([https://classregistration.westernsydney.edu.au/even/timetable/?subject\\_code=INFS3011\\_22-SPR\\_PS\\_D#subjects](https://classregistration.westernsydney.edu.au/even/timetable/?subject_code=INFS3011_22-SPR_PS_D#subjects))