

ISYS90069 eHealth & Biomedical Informatics Systems

Credit Points:	12.50
Level:	9 (Graduate/Postgraduate)
Dates & Locations:	This subject is not offered in 2011.
Time Commitment:	Contact Hours: 28 hours in class plus 8 hours self-paced instruction. Total Time Commitment: 120 hours
Prerequisites:	None
Corequisites:	None
Recommended Background Knowledge:	None
Non Allowed Subjects:	None
Core Participation Requirements:	For the purposes of considering requests for Reasonable Adjustments under the Disability Standards for Education (Cwth 2005), and Students Experiencing Academic Disadvantage Policy, academic requirements for this subject are articulated in the Subject Description, Subject Objectives, Generic Skills and Assessment Requirements for this entry. The University is dedicated to provide support to those with special requirements. Further details on the disability support scheme can be found at the Disability Liaison Unit website: http://www.services.unimelb.edu.au/disability/
Contact:	Email: kgray@unimelb.edu.au (mailto:kgray@unimelb.edu.au)
Subject Overview:	This subject introduces current approaches and future directions in eHealth and the use of ICT in healthcare generally as well as key concepts and themes from the underlying discipline of Health and Biomedical Informatics. Topics covered in lectures and tutorials include electronic health records (EHRs), health portals, health 2.0, medical terminology and classification systems, hospital and clinical decision support systems, broadband and tele-health, informatics in translational and personalized medicine, consumer and population health informatics, health data analysis, privacy and security standards, eHealth research and development. Informatics foundation knowledge in biomedicine and in computing and information science are also covered through self-paced instruction that is tailored to individual students' prior knowledge.
Objectives:	Upon completion of the subject, students should be able to: <ul style="list-style-type: none"> # Critically reflect and report on contemporary approaches to eHealth in Australia and internationally # Use established frameworks to evaluate the use of new and emerging applications of information technology in healthcare and biomedical research # Synthesise complex scientific, technical and social factors in health and biomedical informatics projects and explain challenges to a variety of audiences # Apply recognised health and biomedical informatics competency frameworks to assess individual and organisational development needs
Assessment:	15-item test of informatics foundation knowledge in biomedicine - 15% May be undertaken at any time from the start of the subject A passing grade must be achieved before the final class. 15-item test of informatics foundation knowledge in computing and information science - 15% May be undertaken at any time from the start of the subject A passing grade must be achieved before the final class. Critical appraisal of assigned reading (2000 words) and 15 minute presentation - 30% Due in class during week 2/3 of 4. Project report of 2000 words and 15 minute presentation (per person if group project) - 40% Due in class during week 4 of 4.
Prescribed Texts:	None. Readings will provided on-line.
Breadth Options:	This subject is not available as a breadth subject.
Fees Information:	Subject EFTSL, Level, Discipline & Census Date, http://enrolment.unimelb.edu.au/fees
Generic Skills:	Students should have honed generic skills such as clear thinking, improved reading and writing, enhanced ability to work in a team of people, and presentation skills.

Related Course(s):	Master of Information Systems Master of Information Systems Master of Information Systems
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