Description: Advanced e-Healthcare Technologies

<table>
<thead>
<tr>
<th>Subject</th>
<th>Cat-Nbr</th>
<th>Class</th>
<th>Term</th>
<th>Mode</th>
<th>Units</th>
<th>Campus</th>
</tr>
</thead>
<tbody>
<tr>
<td>CMS</td>
<td>5200</td>
<td>21075</td>
<td>1, 2003</td>
<td>WEB</td>
<td>1.00</td>
<td>TWMBA</td>
</tr>
</tbody>
</table>

Academic Group: FOART
Academic Org: FOA004
HECS Band: 1
ASCED Code: 100700

STAFFING
Examiner: Julianne Stewart
Moderator: Karey Harrison

RATIONALE
This course builds on the practical approaches and applications of computer systems to telemedicine and telehealth of the earlier course. Students wishing to take this course should be competent in the theory, skills and techniques taught in that course. In this course, students develop an advanced knowledge and understanding of the infrastructure and dynamics of complex information technology systems used in telehealth and telemedicine in both rural and urban professional settings. These settings range from smaller regional networks to major telehealth systems, and will be the focus of the development of students’ computer skills to utilise these networks. Issues related to problems of management, distance, development and funding of resources to meet specific needs, availability of facilities and of information technology systems hardware will be addressed through a range of Australian and international case studies. Students will use their computer skills and knowledge to interface with the technologies used in these systems and gain competence in how to apply and critically evaluate these systems in relation to specific health problems and issues.

SYNOPSIS
This course builds on the practical approaches and applications of computer systems to telemedicine and telehealth of the earlier course, CMS 5001. Students wishing to take this course should be competent in the theory, skills and techniques taught in that course. In this course, students develop an advanced knowledge and understanding of the infrastructure and dynamics of complex information technology systems used in telehealth and telemedicine in both rural and urban professional settings. These settings range from smaller regional networks to major telehealth systems and will be the focus of the development of students’ computer skills to utilize these networks. Issues related to problems of distance, the development of resources to meet those needs, availability of facilities and of information technology systems hardware will be addressed. Students will use their computer skills and
knowledge to interface with the technologies used in these systems and will gain competence in how to apply and critically evaluate these systems concerning specific health problems.

**OBJECTIVES**

On successful completion of this course students will be able to:

- Outline the growing importance of e-Health services and products and their relationship to the delivery mechanism of the Internet;
- Access a range of different e-Health websites that offer telemedicine services and products;
- Describe a range of issues affecting the development, delivery, and maintenance of rural and urban telemedicine services and products;
- Explain the roles undertaken by Health Information Management professionals to facilitate the delivery of telemedicine services via the Internet;
- Apply knowledge management concepts to identify explicit and tacit knowledge through examples;
- Demonstrate an understanding of how these types of knowledge interact to form organisational and individual knowledge;
- Assess examples of organisational and individual knowledge to identify the core issues faced by managers of the nominated e-Health facilities; and
- Define strategic ways to address the issues raised or enhance the potential successes of the e-Health projects.

**TOPICS**

<table>
<thead>
<tr>
<th>Description</th>
<th>Weighting (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Use and skilled operation of computer hardware (ie the Internet) for telehealth and telemedicine applications in rural and urban settings;</td>
<td>15.00</td>
</tr>
<tr>
<td>2. Strengths and limitations of e-Health in various professional environments;</td>
<td>15.00</td>
</tr>
<tr>
<td>3. E-health projects in Australia, the US, Asia and Europe;</td>
<td>15.00</td>
</tr>
<tr>
<td>4. Theorising knowledge management of e-Health services;</td>
<td>15.00</td>
</tr>
<tr>
<td>5. Strategising improvements to e-Health services;</td>
<td>15.00</td>
</tr>
<tr>
<td>6. Developing strategic responses to the issues raised in critical analyses of information and knowledge management systems within rural and urban health care settings.</td>
<td>25.00</td>
</tr>
</tbody>
</table>

**TEXT and MATERIALS required to be PURCHASED or ACCESSED:**

Books can be ordered by fax or telephone. For costs and further details use the 'Book Search' facility at http://bookshop.usq.edu.au by entering the author or title of the text.

REFERENCE MATERIALS

Reference materials are materials that, if accessed by students, may improve their knowledge and understanding of the material in the course and enrich their learning experience.


STUDENT WORKLOAD REQUIREMENTS

<table>
<thead>
<tr>
<th>ACTIVITY</th>
<th>HOURS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Private Study</td>
<td>165</td>
</tr>
</tbody>
</table>

ASSESSMENT DETAILS

<table>
<thead>
<tr>
<th>Description</th>
<th>Marks Out of</th>
<th>Wtg(%)</th>
<th>Required</th>
<th>Due Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>DISCUSSION FORUMS</td>
<td>100.00</td>
<td>25.00</td>
<td>Y</td>
<td>04 Mar 2003</td>
</tr>
<tr>
<td>(L'SHIP+PART)</td>
<td></td>
<td></td>
<td></td>
<td>(see note)</td>
</tr>
<tr>
<td>ASSIGNMENT 1</td>
<td>100.00</td>
<td>30.00</td>
<td>Y</td>
<td>13 Jun 2003</td>
</tr>
<tr>
<td>ASSIGNMENT 2</td>
<td>100.00</td>
<td>45.00</td>
<td>Y</td>
<td>20 Jun 2003</td>
</tr>
</tbody>
</table>

NOTES:

. The due date for this assessment item will be negotiated with the lecturer/tutor.
OTHER REQUIREMENTS

1. Final grade will be based on the aggregate of all assessment items.
2. Students who do not pass all assessment items may be required to do make-up work.
3. Students must obtain an aggregate of 60% to pass the course. Grades are assigned as follows: 60-69% = Pass; 70-79% = Credit; 80-89% = Distinction; 90-100% = High Distinction.
4. Penalties for late submission of assignments: 10% per working day of the value of the marks on that assignment for the first 5 working days beyond which the assessment will be awarded a grade of zero. For further details on general assessment policy, see the section 'Essay Preparation' in your Introductory Book.