Description: Computing in Education

<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>
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<tr>
<td>EDU</td>
<td>5472</td>
<td>38305</td>
<td>3, 2004</td>
<td>WEB</td>
<td>1.00</td>
<td>TWMBA</td>
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**Academic group:** FOEDU  
**Academic org:** FOE003  
**HECS band:** 1  
**ASCED code:** 070303

**STAFFING**
Examiner: Peter Albion  
Moderator: Petrea Redmond

**RATIONALE**
The use of computers for instruction creates new opportunities and challenges in the management of learning. Awareness of the possibilities offered by computers and of effective approaches to their use can assist teachers in improving the quality of teaching and learning in a variety of educational contexts.

**SYNOPSIS**
This course will consider both the theory and practice associated with a variety of approaches to the application of computers for teaching and learning in a variety of educational contexts. Emphasis will be placed upon the use of computer technologies to support curriculum objectives. Students will be introduced to background elements of educational computing including philosophical positions, research evidence and policy documents. These will provide a foundation for consideration of computer literacy, approaches to teaching and learning with technology and to trends and issues in the educational use of computing.

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

- Describe, classify and analyse approaches to educational computing.
- Analyse and apply policy documents and published research outcomes relevant to use of computers in a variety of educational contexts.
- Discuss the role of computer studies as a component of general education in a technological society.
- Describe and discuss ways in which computer software can support a range of teaching and learning strategies.
• Plan for the appropriate application of computer-related activities to meet specific educational needs.
• Develop approaches to the integration of computer use across a range of curriculum areas.
• Plan and implement strategies to encourage effective computer use in relevant educational settings.
• Model ethical computer use including compliance with copyright laws.
• Develop appropriate responses to equity issues associated with computers in educational contexts.
• Analyse some current trends in the development of computer technology and discuss their implications for education and the wider society.
• Analyse some current issues associated with the use of computers in educational settings.
• Demonstrate knowledge of course content using appropriate modes and conventions of expression.

**TOPICS**

<table>
<thead>
<tr>
<th>Description</th>
<th>Weighting (%)</th>
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<tbody>
<tr>
<td>1. Background to Educational Computing, Myths and Visions, Research Findings, Taxonomy, Policy Documents</td>
<td>35.00</td>
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<tr>
<td>2. Teaching about Computers</td>
<td>5.00</td>
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<tr>
<td>3. Teaching with Computers, Instructional Principles, Planning, Classroom Management</td>
<td>20.00</td>
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<td>4. Curriculum Integration of Computers, Computers and Problem Solving, Specific Curriculum Areas</td>
<td>20.00</td>
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<tr>
<td>5. Trends and Issues in Educational Computing, Developments in Technology, Equity Issues, Ethical Considerations</td>
<td>20.00</td>
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**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.

Reference reading material is supplied in the Course Package.
STUDENT WORKLOAD REQUIREMENTS:

<table>
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<tr>
<th>ACTIVITY</th>
<th>HOURS</th>
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<tbody>
<tr>
<td>Assessment</td>
<td>20</td>
</tr>
<tr>
<td>Directed Study</td>
<td>70</td>
</tr>
<tr>
<td>Private Study</td>
<td>70</td>
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IMPORTANT ASSESSMENT INFORMATION

1. Attendance requirements:
   There are no attendance requirements for this course. However, it is the students' responsibility to study all material provided to them or required to be accessed by them to maximise their chance of meeting the objectives of the course and to be informed of course-related activities and administration.

2. Requirements for students to complete each assessment item satisfactorily:
   To complete each of the assessment items satisfactorily, students must obtain at least 50% of the marks available for each assessment item.

3. Penalties for late submission of required work:
   If students submit assignments after the due date without prior approval then a penalty of 5% of the total marks available for the assignment will apply for each working day late.

4. Requirements for student to be awarded a passing grade in the course:
   To be assured of receiving a passing grade a student must achieve at least 50% of the available weighted marks for the summative assessment items.

5. Method used to combine assessment results to attain final grade:
   The final grades for students will be assigned on the basis of the weighted aggregate of the marks obtained for each of the summative assessment items in the course.

6. Examination information:
   There is no examination in this course.

7. Examination period when Deferred/Supplementary examinations will be held:
   There will be no Deferred or Supplementary examinations in this course.

8. University Regulations:
   Students should read USQ Regulations 5.1 Definitions, 5.6. Assessment, and 5.10 Academic Misconduct for further information and to avoid actions which might contravene University Regulations. These regulations can be found at the URL http://www.usq.edu.au/SECARIAT/calendar/Part5/ or in the printed version of the current USQ Handbook.

ASSESSMENT NOTES

1. The due date for an assignment is the date by which a student must despatch the assignment to the USQ. The onus is on the student to provide proof of the despatch date, if requested by the Examiner.

2. Students must retain a copy of each item submitted for assessment. This must be produced within five days if required by the Examiner.
3 The examiner may grant an extension of the due date of an assignment in extenuating circumstances.

4 The Faculty will normally only accept assessments that have been written, typed or printed on paper-based media.

5 The Faculty will NOT accept submission of assignments by facsimile.

6 When there is more than one marker for a single item of assessment, the distributed patterns and means for the different markers will be compared and marks adjusted if necessary.

7 Marking criteria are provided in course material as mark sheets/guides or as part of assignment specifications.

8 All assessment items must be attempted/submitted with a pass overall gained

OTHER REQUIREMENTS

1 Students will be required to use appropriate software such as the word processor for preparation of assignments and tutorial exercises submitted for assessment.

2 Data files may be required to be submitted with assessment work.