The information age has required educators to teach the 3 Ts: Technology, Thinking and Teamwork, in addition to the traditional 3 Rs. Great teaching combined with effective ICT integration and mindware, thinking skills, questioning skills and communication skills, can transform classrooms. Students engaged in learning are typically exploring the truth. Pre-service teachers have limited experience in promoting verity, the search for the difficult truth. This course provides pre-service teachers with skills to develop effective questioning and thinking activities within the classroom. ICT and questioning are tools that assist our students to gain insight and understanding of the changing world around them.

This course assists pre-service teachers to manage the 'poverty of abundance', where the amount of information is overwhelming, and quality information may be difficult to locate. Pre-service teachers will be introduced to strategies to develop questioning and thinking within their classroom. Using information and communication technologies (ICT) they will create scaffolded activities for students to move through the information literacy process, modelling powerful questions that require thinking beyond the regurgitation of facts. Students will be introduced to a range of software that can be used to support the work of teachers and students. They will have opportunity to develop both skills in the use of the software and approaches to its integration into the classroom. Intending students should be aware that they require regular access to ICT resources including email and the Internet.

Upon the successful completion of this course students will be able to:
1. describe and discuss approaches to the use of ICT to support critical, creative and complex thinking;
2. apply software tools to the analysis and solution of problems;
3. make informed and substantiated judgements about the value of particular software and Internet tools for their own work;
4. describe and discuss the integration of software tools in the classroom;
5. evaluate software and Internet tools for classroom use
6. use ICT to search for, assemble, and evaluate information
7. distinguish among and generate the different types of questions which may be asked by teachers to support learning;
8. develop activities using a range of questioning and scaffolding levels
9. create questions to assist in the development of new knowledge
10. use ICT to create activities that engage students in learning and thinking
11. plan curriculum delivery which embeds ICT in a thinking classroom
12. 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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</thead>
<tbody>
<tr>
<td>Problem solving, critical thinking and the curriculum; curriculum planning for thinking.</td>
<td>15.00</td>
</tr>
<tr>
<td>Effective questioning techniques and levels, planning and implementing questioning activities.</td>
<td>15.00</td>
</tr>
<tr>
<td>ICT for developing and supporting thinking; semantic organisation tools; interpretation tools, knowledge construction tools, conversation tools.</td>
<td>50.00</td>
</tr>
<tr>
<td>Implementing software tools in the classroom; evaluating digital resources.</td>
<td>20.00</td>
</tr>
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</table>

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

ALL textbooks and materials are available for purchase from USQ BOOKSHOP (unless otherwise stated). Orders may be placed via secure internet, free fax 1800642453, phone 07 46312742 (within Australia), or mail. Overseas students should fax +61 7 46311743, or phone +61 7 46312742. For costs, further details, and internet ordering, use the 'Textbook Search' facility at http://bookshop.usq.edu.au click 'Semester', then enter your 'Course Code' (no spaces).

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>Assessment</td>
<td>19.00</td>
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<tr>
<td>Lectures</td>
<td>12.00</td>
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<tr>
<td>Private Study</td>
<td>100.00</td>
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<tr>
<td>Tutorial</td>
<td>24.00</td>
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ASSESSMENT DETAILS

<table>
<thead>
<tr>
<th>Description</th>
<th>Marks out of</th>
<th>Wtg(%)</th>
<th>Due date</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASSIGNMENT 1: RESEARCH PAPER</td>
<td>40.00</td>
<td>40.00</td>
<td>27 Aug 2004</td>
</tr>
<tr>
<td>ASSIGNMENT 2: PORTFOLIO</td>
<td>60.00</td>
<td>60.00</td>
<td>29 Oct 2004</td>
</tr>
</tbody>
</table>

IMPORTANT ASSESSMENT INFORMATION

1 Attendance requirements:
   It is the students' responsibility to attend and participate appropriately in all activities (such as lectures, tutorials, laboratories and practical work) scheduled for them, and 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 10% of the total marks gained by the student 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 submit all items of assessment and achieve at least 50% of the available weighted marks for the aggregate of 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/corporateservices/calendar/part5.htm or in 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. The student must retain this copy until the grade for this course has been finalised.

3 The examiner may grant an extension of the due date of an assignment in extenuating circumstances.

4 In the event that a due date for an assignment falls on a local public holiday in their area, such as a show holiday, the due date for the assignment will be the next working day. Students are to note on the assignment cover the date of the public holiday for the examiner's information.

5 Students who have undertaken all of the required assessments in a course but who have failed to meet some of the specified objectives of a course within the normally prescribed time may be awarded the temporary grade of IM (Incomplete - Make-up). An IM grade will only be awarded when, in the opinion of the examiner, a student will be able to achieve the remaining objectives of the course after a period of non-directed personal study.

6 Students who, for medical, family/personal or employment-related reasons are unable to complete an assignment or to sit for an examination at the scheduled time may apply to defer an assessment in a course. Such a request must be accompanied by appropriate supporting documentation. One of the following temporary grades may be awarded IDS (Incomplete - Deferred Examination); IDM (Incomplete - Deferred Make-up); IDB (Incomplete - Both Deferred Examination and deferred Make-up).

7 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.

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

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

10 All assessment items must be submitted and passed.

11 Summative assessment items will receive a numerical score.

OTHER REQUIREMENTS

1 Students will require access to email and Internet access to USQConnect for this course.

2 Students are to use a recognised referencing system as specified by the course examiner.