Description: Learning Difficulties: Mathematics

Subject | Cat-nbr | Class | Term | Mode | Units | Campus
---|---|---|---|---|---|---
EDU | 8326 | 40683 | 1, 2005 | EXT | 1.00 | Toowoomba

Academic group: FOEDU
Academic org: FOE002
Student contribution band: National Priority Teaching
ASCED code: 070113

STAFFING
Examiner: Noel Geoghegan
Moderator: John Green

RATIONALE
Outside of reading difficulties, problems in mathematics represent the greatest single source of learning difficulties experienced by primary school children. Proficiency in diagnosing and remediating the problems experienced by children in these areas is an essential skill of the complete, competent and confident teacher.

SYNOPSIS
This course is concerned with the diagnosis and remediation of the difficulties primary school children experience in mathematics. Central to the course are an explanation and description of procedures for the informal assessment and diagnosis of problems children have in the acquisition of basic mathematical concepts and processes and the application of an intervention program for the remediation of those problems. IMPORTANT NOTE: Working with Children: State law in Queensland requires that all adults (including university students, pre-service educators, trainers, vocational teachers, industry educators) working with children under the age of 18, in the state of Queensland*, obtain approval before commencing such work. Many education courses include a practical component (professional experience, project work, research, assessment etc..) that may require engagement with children under the age of 18. It is your responsibility to ensure that you possess a current suitability card (Blue Card) before commencing any practical components of this course. DO NOT PARTICIPATE IN ANY PRACTICAL EXPERIENCE WITH CHILDREN UNDER 18 UNLESS YOU POSSESS A CURRENT ‘BLUE CARD’. For further information: http://www.childcomm.qld.gov.au/employment/bluecard/informationSheets.html. *If you are undertaking practical experience outside the state of Queensland, Australia you should check local requirements.

OBJECTIVES
On successful completion of this course students should be able to:
1. demonstrate a detailed knowledge and understanding of current thinking in mathematics education, with particular reference to children with special needs
2. show a commitment to a personal philosophy of mathematics education based on sound principles, supported by research
3. apply a range of assessment principles and techniques in mathematics
4. diagnose errors in children's oral and written performances in mathematics
5. apply a range of remediation techniques to match the diagnosed need
6. develop a personalised remediation program
7. modify commercial mathematics programs to suit the instructional requirements of children with special needs.

TOPICS

<table>
<thead>
<tr>
<th>Description</th>
<th>Weighting (%)</th>
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<tbody>
<tr>
<td>1. Current Issues in mathematics education</td>
<td>20.00</td>
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<tr>
<td>2. Mathematics education for children with special needs</td>
<td>20.00</td>
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<tr>
<td>3. Principles and techniques for diagnosis in mathematics</td>
<td>20.00</td>
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<tr>
<td>4. Strategies for intervention in mathematics</td>
<td>20.00</td>
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<tr>
<td>5. Developing and evaluating remediation programs in mathematics</td>
<td>20.00</td>
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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.

A comprehensive set of readings is provided as a supplement to the text. Additional reference materials are listed in the study book.


STUDENT WORKLOAD REQUIREMENTS

<table>
<thead>
<tr>
<th>ACTIVITY</th>
<th>HOURS</th>
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<tbody>
<tr>
<td>Assessment</td>
<td>45.00</td>
</tr>
<tr>
<td>Directed Study</td>
<td>90.00</td>
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<tr>
<td>Private Study</td>
<td>30.00</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>
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<tbody>
<tr>
<td>ESSAY (2000 WORDS)</td>
<td>30.00</td>
<td>30.00</td>
<td>08 Apr 2005</td>
</tr>
<tr>
<td>DIAGNOSTIC PROGRAM</td>
<td>40.00</td>
<td>40.00</td>
<td>13 May 2005</td>
</tr>
<tr>
<td>PERSONALISED MATHS PROGRAM</td>
<td>30.00</td>
<td>30.00</td>
<td>07 Jun 2005</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 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 of the summative assessment items and achieve at least 50% of the available weighted marks for those 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 twenty-four (24) hours of receipt of request being made by the examiner. The student must retain this copy until the grade for this course has been finalised.

3 In accordance with the University’s assignment extension policy (Regulation 5.6.1), 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 Students who do not have regular access to postal services or who are otherwise disadvantaged by these regulations may be given special consideration. They should contact the examiner of the course to negotiate such special arrangements.

7 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 convenience.

8 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: 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.

9 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).

10 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.

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

12 All assessment items must be submitted with a pass overall gained.

13 Summative assessment items will receive a numerical score. Any ungraded assessment requirement will receive a Pass, Fail or Incomplete.

OTHER REQUIREMENTS

1 Students will require access to e-mail and Internet access to USQConnect for this course.

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

3 IMPORTANT NOTE: Working with Children: State law in Queensland requires that all adults (including university students, pre-service educators, trainers, vocational
teachers, industry educators) working with children under the age of 18, in the state of Queensland*, obtain approval before commencing such work. Many education courses include a practical component (professional experience, project work, research, assessment etc.) that may require engagement with children under the age of 18. It is your responsibility to ensure that you possess a current suitability card (Blue Card) before commencing any practical components of this course. DO NOT PARTICIPATE IN ANY PRACTICAL EXPERIENCE WITH CHILDREN UNDER 18 UNLESS YOU POSSESS A CURRENT ‘BLUE CARD’. For further information: http://www.childcomm.qld.gov.au/employment/bluecard/informationSheets.html. *If you are undertaking practical experience outside the state of Queensland, Australia you should check local requirements.