



MONASH University
Information Technology

FIT3033
Principles of educational multimedia

Unit Guide

Semester 2, 2011

The information contained in this unit guide is correct at time of publication. The University has the right to change any of the elements contained in this document at any time.

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FIT3033 Principles of educational multimedia - Semester 2, 2011

This unit examines the diversity of theoretical and conceptual frameworks which influence current research and production of educational multimedia applications. Topics will include: educational theory and practice, cognition and cognitive development, the differentiation between child and adult learners, catering to differences in the capacity to learn, for example, gifted and disabled learners, creating immersive and interactive learning environments, current debates surrounding e-Learning, and enabling equitable access to learning technologies. Students will be given an overview of issues and techniques for applying information technology to support instruction in educational and training contexts and gain practical experiences in managing a design process involving competing aspects of learning theories, content characteristics, audience needs and software development practices.

Mode of Delivery

Berwick (Day)

Contact Hours

2 hrs lectures/wk, 2 hrs laboratories/wk

Workload

For on campus students, workload commitments are:

- two-hour lecture and
- two-hour tutorial
- a minimum of 8 hours of personal study in order to satisfy the reading and assignment expectations.

Unit Relationships

Prohibitions

MMS2701

Prerequisites

FIT2012 and FIT2016

Chief Examiner

Dr Michael Morgan

Campus Lecturer

Berwick

Michael Morgan

Cheryl Howard

Tutors

Berwick

Cheryl Howard

Academic Overview

Learning Objectives

At the completion of this unit students will have -
A theoretical and conceptual understanding of:

- the diversity of theoretical and conceptual frameworks which contribute to the current research and application of educational multimedia;
- the uniquely immersive, engaging and interactive nature of educational multimedia learning environments; and
- the correlation of the individual needs of a learner with an appropriate digital environment for the delivery of educational material and learning experiences.

Developed attitudes that enable them to:

- be acquainted with and value the diversity of learning styles and requirements within the community; and
- appreciate the need for an adaptive approach in the modification of technology to the requirements of both the learner and the educational content.

Developed the skills to:

- design and produce documents relating to the conceptual development of educational learning environments;
- develop applications of learning environments for specific learning needs; and
- utilise appropriate techniques and be able to select tools to meet the requirements of specific learning environments.

Demonstrated the teamwork skills necessary to:

- recognise the potential of multimedia in enabling educational access and equity;
- further develop communication and group work skills;
- understand the importance of the functional and structural role of multimedia in contemporary educational practice; and
- recognise the significance and ubiquity of educational products in the multimedia industry and the need for quality assurance in production processes.

Graduate Attributes

Monash prepares its graduates to be:

1. responsible and effective global citizens who:

- a. engage in an internationalised world
- b. exhibit cross-cultural competence
- c. demonstrate ethical values

critical and creative scholars who:

- a. produce innovative solutions to problems
- b. apply research skills to a range of challenges

- c. communicate perceptively and effectively

Assessment Summary

Examination (2 hours): 25%; In-semester assessment: 75%

Assessment Task	Value	Due Date
Assignment 1: Seminar, Seminar Slides and Peer Assessment	20%	Seminar Slides to be submitted by Friday 3 pm week 4. Seminars delivered and Peer Evaluation Sheets completed in weeks 5 to 11.
Assignment 2: Group Design Document	20%	Friday 3 pm week 5
Assignment 3: Group Interactive Educational Multimedia Application	35%	Friday 3 pm week 12
Examination 1	25%	To be advised

Teaching Approach

- **Studio teaching**

Studio teaching is a facilitated active, participatory, peer learning approach.

This will take the form of students designing and developing an educational multimedia application in a group.

- **Problem-based learning**

Students are encouraged to take responsibility for organising and directing their learning with support from their supervisors. This will take the form of students investigating current issues in educational multimedia for learning and reporting the outcome of their investigation to their peers in the form of a seminar. Weeks 1 to 4 and 12 will involve lecturer delivered content. Weeks 5 to 11 will involve student delivered seminars, supplemented with micro lectures. The unit will use the Moodle open source online learning system.

Feedback

Our feedback to You

Types of feedback you can expect to receive in this unit are:

- Informal feedback on progress in labs/tutes
- Graded assignments with comments
- Other: Peer Assessment of Seminar Presentations

Your feedback to Us

Monash is committed to excellence in education and regularly seeks feedback from students, employers and staff. One of the key formal ways students have to provide feedback is through SETU, Student Evaluation of Teacher and Unit. The University's student evaluation policy requires that every unit is evaluated each year. Students are strongly encouraged to complete the surveys. The feedback is anonymous and provides the Faculty with evidence of aspects that students are satisfied and areas for

Academic Overview

improvement.

For more information on Monash's educational strategy, and on student evaluations, see:

<http://www.monash.edu.au/about/monash-directions/directions.html>

<http://www.policy.monash.edu/policy-bank/academic/education/quality/student-evaluation-policy.html>

Previous Student Evaluations of this unit

If you wish to view how previous students rated this unit, please go to

<https://emuapps.monash.edu.au/unitevaluations/index.jsp>

Recommended Resources

NA

Unit Schedule

Week	Activities	Assessment
0	No formal assessment or activities are undertaken in week 0	
1	Educational Multimedia, Introduction, Assessment and Seminar Topics	Seminar Topic Selection
2	Knowledge, Learning and Pedagogy	
3	Cognitive Architecture, Schema Theory and Cognitive Development	Assignment 1: Seminar, Seminar Slides and Peer Assessment (20%) Due Friday 3 pm week 4. Seminar delivered and Peer Assessment completed weeks 5 to 11.
4	Learning Theories	Assignment 2: Group Design Document (20%) Due Friday 3 pm week 5
5	Micro Lecture - Student Seminars	
6	Micro Lecture - Student Seminars	
7	Micro Lecture - Student Seminars	
8	Micro Lecture - Student Seminars	
9	Micro Lecture - Student Seminars	
10	Micro Lecture - Student Seminars	
11	Micro Lecture - Student Seminars	
12	Review	Assignment 3: Group Interactive Educational Multimedia Application (35%) Due Friday 3 pm week 12.
		No formal assessment is undertaken SWOT VAC
	Examination period	LINK to Assessment Policy: http://policy.monash.edu.au/policy-bank/academic/education/assessment/assessment-in-coursework-policy.html

*Unit Schedule details will be maintained and communicated to you via your MUSO (Blackboard or Moodle) learning system.

Assessment Requirements

Assessment Policy

To pass a unit which includes an examination as part of the assessment a student must obtain:

- 40% or more in the unit's examination, and
- 40% or more in the unit's total non-examination assessment, and
- an overall unit mark of 50% or more.

If a student does not achieve 40% or more in the unit examination or the unit non-examination total assessment, and the total mark for the unit is greater than 50% then a mark of no greater than 49-N will be recorded for the unit

Assessment Tasks

Participation

- Attempt all assessment tasks
- It is your responsibility to advise lecturing staff immediately if members in group assessment tasks are not contributing equitably so that appropriate action can be taken.
- If students are not contributing to group assignments equitably their marks for the assessment task may be scaled down by up to 50% to reflect their lack of contribution to the group.

• **Assessment task 1**

Title:

Assignment 1: Seminar, Seminar Slides and Peer Assessment

Description:

A Seminar presentation of a minimum of 20 minutes (20 minutes for 1 person plus 5 minutes for each additional person) and 10 minutes questions. Presented by one, two or three students (depending on student numbers) and delivered to class in lectures in weeks 5 to 11. With presentation slides to be submitted to the lecturer for uploaded to the FIT2072/3033 MUSO site by Friday 3 pm week 4. Seminars will be peer assessed in conjunction with lecturing staff. Each week in the seminars you will be given a Seminar Peer Evaluation sheet for the seminar presentations, which must be completed and handed back at the end of the seminar.

Seminar topics selected from the list provided.

Weighting:

20%

Criteria for assessment:

Presentation Delivery and Slides Formatting (5)

Content and Research (5)

Relating the topic to educational multimedia and discussion of examples of educational multimedia packages (5)

Peer Evaluation sheets (5 see below)

Peer Assessment

Assessment Requirements

All students are expected to attend and contribute to the question time of the seminars.

Assessment of seminar presentations will be based partly on lecturer assessment and partly on Peer Evaluation sheets completed by all students.

Each week in the seminars you will be given a Seminar Peer Evaluation sheet for the seminar presentations, which must be completed and handed back at the end of the seminar.

These will be used to help determine the grades for the group that is presenting the seminar.

Marks will be awarded as follows:

Complete 80 to 100% of Peer Evaluation sheets = 5 marks

Complete 70 to 79% of Peer Evaluation sheets = 4 marks

Complete 60 to 69% of Peer Evaluation sheets = 3 marks

Complete 50 to 59% of Peer Evaluation sheets = 2 marks

Complete less than 50% of Peer Evaluation sheets = 0 marks

Non-Performing group members (refer above to Assessment - Task Participation)

Due date:

Seminar Slides to be submitted by Friday 3 pm week 4. Seminars delivered and Peer Evaluation Sheets completed in weeks 5 to 11.

Remarks:

Seminar topics selected from the list provided or negotiated with the lecturer by Friday 3pm week 2.

• **Assessment task 2**

Title:

Assignment 2: Group Design Document

Description:

Presentation by the group of a detailed project plan for an interactive multimedia learning environment and to be targeted at a given instructional methodology.

Weighting:

20%

Criteria for assessment:

Professional Presentation of Documentation (5)

Completion of Documentation Components (10)

An Interesting and Original Concept (5)

Due date:

Friday 3 pm week 5

• **Assessment task 3**

Title:

Assignment 3: Group Interactive Educational Multimedia Application

Description:

Production of a multimedia learning environment for a specific audience and context, that demonstrates; 1) clear instructional objectives, 2) the appropriate formatting and use of media for the presentation of content, 3) an effective instructional strategy that includes interactive elements, and 4) an appropriate assessment strategy.

Your learning environment may target:

- 1) Child learners
- 2) Adult learners
- 3) Workplace learning
- 4) Online learning

Weighting:

35%

Criteria for assessment:

Clear Instructional Objectives (5)

Effective Instructional Strategy (5)

Major Interactivity (5)

Appropriate Assessment Strategy and Feedback (5)

Appropriate Formatting, Use of Media and Media Quality (10)

Technical Excellence and Reliability (5)

Creativity in Design (5)

Due date:

Friday 3 pm week 12

Examinations

• **Examination 1**

Weighting:

25%

Length:

2 hours

Type (open/closed book):

Closed book

Electronic devices allowed in the exam:

None

Remarks:

Focusing on educational theory delivered in the lectures and micro-lectures.

Assignment submission

It is a University requirement

(<http://www.policy.monash.edu/policy-bank/academic/education/conduct/plagiarism-procedures.html>) for students to submit an assignment coversheet for each assessment item. Faculty Assignment coversheets can be found at <http://www.infotech.monash.edu.au/resources/student/forms/>. Please check with your Lecturer on the submission method for your assignment coversheet (e.g. attach a file to the online assignment submission, hand-in a hard copy, or use an online quiz).

Extensions and penalties

Submission must be made by the due date otherwise penalties will be enforced.

You must negotiate any extensions formally with your campus unit leader via the in-semester special consideration process:

<http://www.infotech.monash.edu.au/resources/student/equity/special-consideration.html>.

Returning assignments

Students can expect assignments to be returned within two weeks of the submission date or after receipt, whichever is later

Other Information

Policies

Monash has educational policies, procedures and guidelines, which are designed to ensure that staff and students are aware of the University's academic standards, and to provide advice on how they might uphold them. You can find Monash's Education Policies at:

<http://policy.monash.edu.au/policy-bank/academic/education/index.html>

Key educational policies include:

- Plagiarism
(<http://www.policy.monash.edu/policy-bank/academic/education/conduct/plagiarism-policy.html>)
- Assessment
(<http://www.policy.monash.edu/policy-bank/academic/education/assessment/assessment-in-coursework-p>)
- Special Consideration
(<http://www.policy.monash.edu/policy-bank/academic/education/assessment/special-consideration-policy.h>)
- Grading Scale
(<http://www.policy.monash.edu/policy-bank/academic/education/assessment/grading-scale-policy.html>)
- Discipline: Student Policy
(<http://www.policy.monash.edu/policy-bank/academic/education/conduct/student-discipline-policy.html>)
- Academic Calendar and Semesters (<http://www.monash.edu.au/students/key-dates/>);
- Orientation and Transition (<http://www.infotech.monash.edu.au/resources/student/orientation/>);
and
- Academic and Administrative Complaints and Grievances Policy
(<http://www.policy.monash.edu/policy-bank/academic/education/management/complaints-grievance-policy>)
- Codes of Practice for Teaching and Learning
(<http://www.policy.monash.edu.au/policy-bank/academic/education/conduct/suppdocs/code-of-practice-tea>)

Student services

The University provides many different kinds of support services for you. Contact your tutor if you need advice and see the range of services available at www.monash.edu.au/students. The Monash University Library provides a range of services and resources that enable you to save time and be more effective in your learning and research. Go to <http://www.lib.monash.edu.au> or the library tab in my.monash portal for more information. Students who have a disability or medical condition are welcome to contact the Disability Liaison Unit to discuss academic support services. Disability Liaison Officers (DLOs) visit all Victorian campuses on a regular basis

- Website: <http://adm.monash.edu/sss/equity-diversity/disability-liaison/index.html>;
- Telephone: 03 9905 5704 to book an appointment with a DLO;
- Email: dlu@monash.edu
- Drop In: Equity and Diversity Centre, Level 1 Gallery Building (Building 55), Monash University, Clayton Campus.