

**EDUC 463 - 4**  
**Multimedia for Curriculum Design**

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**E01.00**

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**PREREQUISITE**

Educ 401/402 (or permission from the instructor)

**COURSE DESCRIPTION**

This course focuses primarily on the evaluation of multimedia software packages in relation to important curricular, instructional and software design issues. A secondary focus will be the student design and production of a multimedia package for use in an educational setting.

**COURSE OUTCOMES**

Upon completion of this course, students will be able to:

- Evaluate commercially available software packages against known characteristics of effective instruction;
- Explain and discuss software and interface design principles related to the effective display of educational material (e.g. page layout, use of colour, design consistency, etc.);
- Evaluate the implementation of educational software in a variety of learning environments against a range of expected learning outcomes, classroom processes and individual learner and teacher needs; and
- Synthesize what has been learned in the evaluation of commercial software and apply to the development of a simple multimedia production.

**ASSIGNMENTS**

Students will demonstrate competence with the required learning outcomes for the course by completing four types of assignments:

1. Presentation and written critique of a commercially produced educational multimedia software.
2. A position paper on the implementation of educational multimedia software into a curricular area of the students choosing (e.g. Using multimedia in the secondary science classroom) which will be based on a critical analysis of readings taken from current educational literature integrated with information presented in class.
3. A learning journal of reflecting on effective principles of software and interface design as it relates to effective multimedia presentations of educational material.
4. Completion of simple multimedia instructional units using presentation software, multimedia authoring software and WWW authoring software.

**EVALUATION**

Course evaluation will be based on mark distribution as follows:

- Software evaluation - 15%
- Position paper - 25%
- Learning journal - 25%
- Multimedia projects (2) - 35%

**REQUIRED TEXT**

Welsh, M. (1997). *Orchestrating multimedia*. Concord, ON: Irwin. ISBN: 077252503X (165 pages/Paperback)

Several readings (available online and from current literature) will be provided to complete the academic and theoretical framework for the course.

**OPTIONAL TEXT**

Grabe, M. & Grabe, C. (1998). *Integrating technology for meaningful Learning*. Houghton Mifflin. ISBN: 0-395-87136-0 (452 pages/paperback)

**OTHER COURSE COSTS:**

Students will be expected to purchase material to complete projects and pay for photocopying of readings used in class and for completion of projects.

## **TENTATIVE CLASS SCHEDULE:**

|         | <b>Lecture</b>  | <b>Lab</b>                        |
|---------|---|-----------------------------------|
| Week 1  | Course Introduction   | Lab Resources Demos               |
| Week 2  | What is Multimedia?   | Multimedia Tools                  |
| Week 3  | Internet as Multimedia  | Internet as a Multimedia Resource |
| Week 4  | Presentation Applications   | PowerPoint, ClarisWorks           |
| Week 5  | Multimedia Design   | Evaluation of Multimedia          |
| Week 6  | Multimedia in the Classroom                                       | HTML & Claris HomePage            |
| Week 7  | Multimedia Student Projects                                       | HyperStudio                       |
| Week 8  | Audio & Video in Multimedia                                       | Creating Audio Clips              |
| Week 9  | Copyright and Ownership   | Creating Video Clips              |
| Week 10 | Teacher Role in Multimedia  | Lab time                          |
| Week 11 | Research Findings (Science) - Group Presentations of Research     |                                   |
| Week 12 | Research Findings (Humanities) - Group Presentations of Research  |                                   |
| Week 13 | Multimedia Presentations of Multimedia Projects (Peer Evaluation) |                                   |