SAULT COLLEGE OF APPLIED ARTS AND TECHNOLOGY

SAULT STE. MARIE, ONTARIO

Sault College

COURSE OUTLINE

COURSE TITLE: Multimedia & Advanced Web Page Development

CODE NO. : CSD312 **SEMESTER:** 6

PROGRAM: Computer Engineering Technology
Computer Programmer Analyst

AUTHOR: Marcel VanLandeghem

DATE: Sept 2007 **PREVIOUS OUTLINE DATED:** Aug 2006

APPROVED:

_____ _____
DEAN **DATE**

TOTAL CREDITS: 3

PREREQUISITE(S): Completion of the Computer Engineering Technician or Computer Programmer Program or approval of the Dean

HOURS/WEEK: 4

I. COURSE DESCRIPTION:

This course develops the ability to design and implement multimedia products and advanced web pages incorporating Flash, Dreamweaver, style sheets, scripting and other web technologies. The ability to create multimedia content including still images, video, animation and audio and incorporate them in web pages is also developed. In addition, concepts relating to presentation design, computer hardware requirements, media capture, file formats, media storage and presentation hardware will be developed and used in the creation of the presentations.

II. LEARNING OUTCOMES AND ELEMENTS OF THE PERFORMANCE:

Upon successful completion of this course, the student will demonstrate the ability to:

1. **Discuss Multimedia Design Issues**

Potential Elements of the Performance:

- understand, discuss and perform the following design techniques, generate a design spec and create a multimedia presentation based the spec.
- brainstorming
- outlines
- storyboards
- scripts
- building, testing, debugging.

2. **Identify, compare and evaluate hardware specifications**

Potential Elements of the Performance:

- Multimedia PC specifications
- Digital Camera Technologies
- CDROM/DVD specification and formats
- Audio Formats and specifications
- Video capture hardware/software
- Audio capture hardware/software
- Scanner Technologies

- Mp3 Technologies

3. **Understand File Formats and Compression Techniques**

Potential Elements of the Performance:

- Video/Audio encoding techniques
- .wav (Microsoft WAVE files, RIFF)
- .ram Real Audio files
- real video, quick time, MPEG movies, MP3 audio
- jpeg, gif, png, tiff
- jpeg, mpeg, compression
- vector /raster inage files
- active x plugins
- 3-D technologies

4. **Create Web Page Applications**

Potential Elements of the Performance:

- Create an advanced Web Page Application Projects
- Incorporate Video/Audio/Images in a Web Page
- Using Style Sheets
- Using Image maps on a web page.
- Creating Tables
- Using Hover Buttons and Hyper Links
- Create and Use Frames
- Create and use bookmarks
- Using Banners and a Marquee
- Devlope and Use Forms
- Explore and use dynamic html effects
- Incorporate Java Script in a web page
- Adding Database Connections

5. **Animate a Web Site Using Flash Technologies**

Potential Elements of the Performance:

- Understand how Animation Works
- Components of the Flash Screen
- Learning to use the Drawing Tools
- Motion Tweening Teckniques

- Shape/Text Tweening
- Working with Guided Layers
- Create Your First Animated Character
- Create mouth shapes to simulate speech
- Create and Use Animated Buttons
- Using Layers
- Import Audio/Video
- Using Action Script
- Create Animated Login Screens
- Using Drag and Drop Technologies
- Creating Forms with Flash
- Publishing a Flash Movie
- Incorporating Flash Movies in a Web Pages
- Advanced Flash Project Student Portfolio

III. TOPICS:

1. Discuss multimedia design issues
2. Identify, compare and evaluate hardware specifications
3. Understand File Formats and Compression Techniques
4. Create Web Page Applications FrontPage/Dreamweaver
5. Animate a Web Site using Flash Technologies

IV. REQUIRED RESOURCES/TEXTS/MATERIALS:

The Instructor will provide all necessary material using demonstrations and online resourses and reference material.

Instructor Handouts/Internet Resources
2 CD-R's

V. EVALUATION PROCESS/GRADING SYSTEM:

The mark for this course will be arrived at as follows:

1 Written Tests @ 15% each	15%
Lab Assignments	45%
Final Projects (2) @ 20	40%
Total	100%

Some minor modifications to the above percentages may be necessary. The professor reserves the right to adjust the mark up or down 5% based on attendance, participation, leadership, creativity and whether there is an improving trend.

The professor reserves the right to adjust the number of tests, practical tests and quizzes based on unforeseen circumstances. The students will be given sufficient notice to any changes and the reasons thereof.

- Successful completion of this course is greatly improved with a disciplined approach and consistent attendance to both the lab and lecture / theory classes.
- Students must complete and pass both the test and assignment portion of the course in order to pass the entire courses.
- All Assignments must be completed satisfactorily to complete the course. Late hand in penalties will be 5% per day. Assignments will not be accepted past one week late unless there are extenuating and legitimate circumstances. It is not acceptable to miss classes and / or labs without a reasonable explanation.
- There will also be a lab exercise each and every week that will be due during that lab period. In the event that it cannot be completed during lab time, you will be allowed to complete it as a homework exercise and demonstrate it the following lab with no penalty.

A student who is absent for 3 or more times without any valid reason or effort to resolve the problem will result in action taken.

NOTE: If action is to be taken, it will range from marks being deducted to a maximum of removal from the course

The following semester grades will be assigned to students:

Grade	Definition	*Grade Point Equivalent*
A+	90 – 100%	4.00
A	80 – 89%	
B	70 - 79%	3.00
C	60 - 69%	2.00
D	50 – 59%	1.00
F (Fail)	49% and below	0.00

CR (Credit)	Credit for diploma requirements has been awarded.
S	Satisfactory achievement in field /clinical placement or non-graded subject area.
U	Unsatisfactory achievement in field/clinical placement or non-graded subject area.
X	A temporary grade limited to situations with extenuating circumstances giving a student additional time to complete the requirements for a course.
NR	Grade not reported to Registrar's office.
W	Student has withdrawn from the course without academic penalty.

VI. SPECIAL NOTES:

Special Needs:
If you are a student with special needs (e.g. physical limitations, visual impairments, hearing impairments, or learning disabilities), you are encouraged to discuss required accommodations with your professor and/or the Special Needs office. Visit Room E1101 or call Extension 2703 so that support services can be arranged for you.

Retention of Course Outlines:
It is the responsibility of the student to retain all course outlines for possible future use in acquiring advanced standing at other postsecondary institutions.

Communication:
The College considers ***WebCT/LMS*** as the primary channel of communication for each course. Regularly checking this software platform is critical as it will keep you directly connected with faculty and current course information. Success in this course may be directly related to your willingness to take advantage of the ***Learning Management System*** communication tool.

The professor reserves the right to use other tools and / or techniques that may be more applicable. These other tools and / or techniques for effective communication will be discussed, identified and presented throughout the delivery of the course content

Plagiarism:
Students should refer to the definition of "academic dishonesty" in *Student Code of Conduct*. Students who engage in academic dishonesty will receive an automatic failure for that submission and/or such other penalty, up to and including expulsion from the course/program, as may be decided by the professor/dean. In order to protect students from inadvertent plagiarism, to protect the copyright of the material referenced, and to credit the author of the material, it is the policy of the department to employ a documentation format for referencing source material.

Course Outline Amendments:
The professor reserves the right to change the information contained in this course outline depending on the needs of the learner and the availability of resources.

Substitute course information is available in the Registrar's office.

Special Notes:

- In order to pass this course the student must obtain an overall **test/quiz** average of 50% or better.

- Assignments must be submitted by the due date according to the specifications of the instructor. Late assignments will normally be given a mark of zero. Late assignments will only be marked at the discretion of the instructor in cases where there were extenuating circumstances. Ask for permission from your instructor to hand assignments in late **before** the due date

VII. PRIOR LEARNING ASSESSMENT:

Students who wish to apply for advanced credit in the course should consult the professor. Credit for prior learning will be given upon successful completion of a challenge exam or portfolio.

VIII. DIRECT CREDIT TRANSFERS:

Students who wish to apply for direct credit transfer (advanced standing) should obtain a direct credit transfer form from the Dean's secretary. Students will be required to provide a transcript and course outline related to the course in question.