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|                  | SAULT S  | TE. MARIE, ONTARIO      |          |  |  |
| Sault College    |  |                         |          |  |  |
| COURSE OUTLINE   |  |                         |          |  |  |
| COURSE TITLE:    | Multimedia & Advanced Web Page Development           |                         |          |  |  |
| CODE NO. :       | CSD312   | SEMESTER:               | 6        |  |  |
| PROGRAM:         |  | ingineering Technology  |          |  |  |
| AUTHOR:          | Computer Programmer Analyst<br>Marcel VanLandeghem   |                         |          |  |  |
| DATE:            | Sept 2008  | PREVIOUS OUTLINE DATED: | Aug 2007 |  |  |
| APPROVED:        |  |                         |          |  |  |
| TOTAL CREDITS:   | 3  | Chair                   | DATE     |  |  |
| PREREQUISITE(S): | Completion of the Computer Engineering Technician or |                         |          |  |  |

HOURS/WEEK: 4

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Computer Programmer Program or approval of the Dean

## 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 image 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:

### IV. REQUIRED RESOURCES/TEXTS/MATERIALS:

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

### Textbook:

Title: Adobe Flash CS3 REVEALED Authors: Jim Shuman Publisher: Nelson Education Ltd. ISBN: 13: 978-1-4283-1963-9

## V. EVALUATION PROCESS/GRADING SYSTEM:

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

The following semester grades will be assigned to students in postsecondary courses:

|              |  | Grade Point       |
|--------------|--|-------------------|
| <u>Grade</u> | <u>Definition</u>                        | <u>Equivalent</u> |
| A+           | 90 - 100%                                | 4.00              |
| А            | 80 - 89%                                 | 4.00              |
| В            | 70 - 79%                                 | 3.00              |
| С            | 60 - 69%                                 | 2.00              |
| D            | 50 - 59%                                 | 1.00              |
| F (Fail)     | 49% or below                             | 0.00              |
| CR (Credit)  | Credit for diploma requirements has been |                   |
|              | awarded.                                 |                   |
| S            | Satisfactory achievement in field        |                   |
|              | placement or non-graded subject areas.   |                   |
| U            | Unsatisfactory achievement in field      |                   |
|              | placement or non-graded subject areas.   |                   |
| Х            | A temporary grade. This is used in       |                   |
|              | limited situations with extenuating      |                   |
|              |  |                   |

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circumstances giving a student additional time to complete the requirements for a course (see *Policies & Procedures Manual – Deferred Grades and Make-up*). Grade not reported to Registrar's office. This is used to facilitate transcript preparation when, for extenuating circumstances, it has not been possible for the faculty member to report grades.

### 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

## Tuition Default:

Students who have defaulted on the payment of tuition (tuition has not been paid in full, payments were not deferred or payment plan not honoured) as of the first week of *<choose November, March, or June>* will be removed from placement and clinical activities. This may result in loss of mandatory hours or incomplete course work. Sault College will not be responsible for incomplete hours or outcomes that are not achieved or any other academic requirement not met as of the result of tuition default. Students are encouraged to communicate with Financial Services with regard to the status of their tuition prior to this deadline to ensure that their financial status does not interfere with academic progress

# VII. PRIOR LEARNING ASSESSMENT:

Students who wish to apply for advance credit transfer (advanced standing) should obtain an Application for Advance Credit from the program coordinator (or the course coordinator regarding a general education transfer request) or academic assistant. Students will be required to provide an unofficial transcript and course outline related to the course in question.

Credit for prior learning will also be given upon successful completion of a challenge exam or portfolio