

BA 2820 - Image Editing & Enhancement

Instructor:

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Classroom:

A313

Times:

Tues. & Thurs. 13:00 - 14:20

CALENDAR DESCRIPTION:

Using commonly available image editing software programs, students will learn how to efficiently and effectively produce, acquire, render, and edit images for use in web documents. A significant portion of the course will be devoted to photography, i.e. learning how to take good pictures. In addition, a review of graphic design principles will be covered. The course concludes with a unit on web animations.

PREREQUISITES:

BA 1150 or an equivalent introductory computer course. Second year standing, and a good working familiarity with the internet is also recommended.

GENERAL OBJECTIVES:

Upon exit the student will be able to:

1. acquire, edit, and display digital images for use in creating effective web sites.
 2. apply the concepts of graphic design.
 3. apply the basic principles of photography.
 4. apply image editing software to repair, enhance, and compress digital images.
 5. create simple web animations.
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RESOURCE MATERIALS:

There is no textbook assigned for this course. Rather you will be expected to supply your own camera and film.

Parts of the course will be supplemented with handouts and online references. There are a number of valuable references available online, such as:

- [Apogee Photo](#) - An Internet Photography Magazine
 - and [Tom's hardware guide](#)
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CONDUCT OF COURSE:

Lab

The course is delivered live in computer lab A313 in the fall semester and lecture notes will be posted online at <http://www.bmacdonald.com>. The content is divided into three modules. At the end of each module, there will be an assignment due, and a written test.

COURSE CONTENT:

Module 1 - Basic Computer Imaging Concepts

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|-----|---|
| 1.1 | Terms and Concepts |
| 1.2 | Colour Concepts and Models |
| 1.3 | The Hexadecimal Colour Numbering System |
| 1.4 | Image Compression |
| 1.5 | Image Formats for the Web |
| 1.6 | Basic Graphic Design Concepts |

Module 2 - Photography

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| 2.1 | Basic Concepts of Light |
| 2.2 | Filmspeed |
| 2.3 | Depth of Field |

Module 3 - Image Editing Software

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| 3.1 | Cropping Images |
| 3.2 | Brightness and Contrast |
| 3.3 | Selection Tools |
| 3.4 | Cloning |
| 3.5 | Filters and Special Effects |
| 3.6 | Transparency |

Module 4 - Animation

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| 4.1 | Gif Animation |
| 4.2 | Vector Animation |

GRADING SYSTEM

GPRC uses the 9-point grading system as explained on page 30 of the College calendar.

Note that a grade of "4" will earn you credit for the course, but it does not entitle you to proceed to certain other courses without special approval. So for the record, consider the passmark to be 5.

The main factor that influences your grade is your weighted average, which I will calculate as follows:

Module 1	Module Test	20
Module 2	Photography Assignments	15
	Module Test	15
Module 3	Image Editing Assignments	20
	Module Test	20
Module 4	Animation Assignment	10
TOTAL		100

That weighted average translates roughly into the 9-point system as follows:

Weighted Average %	9-Point Grade
90 - 100	9
80 - 89	8
72 - 79	7
65 - 71	6
57 - 64	5
50 - 56	4
45 - 49	3
26 - 44	2
0 - 25	1