

COURSE COM1210: DIGITAL IMAGING 1**Level:** Introductory**Theme:** Photography**Prerequisite:** None**Description:** Students will learn the fundamentals of digital image acquisition, using a digital camera. Images will be saved to a folder or directory and manipulated, using bitmap editing software.**Parameters:** Access to a digital camera and computer(s) with bitmap editing software.**Supporting Courses:** COM1010 Presentation & Communication 1
COM1080 Digital Design 1**Curriculum and Assessment Standards**

General Outcomes	Assessment Criteria and Conditions	Suggested Emphasis
<p><i>The student will:</i></p> <ul style="list-style-type: none"> • demonstrate knowledge of: <ul style="list-style-type: none"> – digital camera components, commands and controls – basic compositional strategies used in photography • use a digital camera to acquire images that follow basic rules of composition • download to a directory images acquired from a digital camera, and save as editable files 	<p><i>Assessment of student achievement should be based on:</i></p> <ul style="list-style-type: none"> • a teacher-directed evaluation designed to determine knowledge of: <ul style="list-style-type: none"> – digital camera components, commands and controls – basic bitmap editing functions and commands • knowledge of the advantages and disadvantages of common file formats, and conversion of files from proprietary or camera format to another format suitable for editing by bitmap software; i.e.: <ul style="list-style-type: none"> – files are saved in an appropriate file format – file format takes into account export to other applications <p><i>Assessment Tool</i> <i>Portfolio Assessment, COM1210-1</i></p> <p><i>Standard</i> <i>Performance rating of 1 for each criteria</i></p>	<p>10</p> <p>10</p>
	<ul style="list-style-type: none"> • demonstration, through an experimental approach, of the use of bitmap editing software; i.e.: <ul style="list-style-type: none"> – basic bitmap editing tools are explained and demonstrated 	<p>30</p>

COURSE COM1210: DIGITAL IMAGING 1 (continued)

General Outcomes	Assessment Criteria and Conditions	Suggested Emphasis
<p><i>The student will:</i></p> <ul style="list-style-type: none"> • apply basic bitmap editing software functions and commands to edit digital image files • present edited images to an audience • demonstrate basic competencies. 	<p><i>Assessment of student achievement should be based on:</i></p> <ul style="list-style-type: none"> – digital image files are edited through an experimental approach – editing effects for each image are recorded on a log sheet <p><i>Assessment Tool</i> <i>Portfolio Assessment, COM1210–1</i></p> <p><i>Standard</i> <i>Performance rating of 1 for each criteria</i></p> <ul style="list-style-type: none"> • a portfolio of 10 to 15 digital images: <ul style="list-style-type: none"> – acquired from a digital camera – composed according to basic composition principles – saved in a dedicated folder or directory – manipulated/edited using bitmap editing software – annotated with details regarding the effects of editing <p><i>Assessment Tool</i> <i>Portfolio Assessment, COM1210–1</i></p> <p><i>Standard</i> <i>Performance rating of 1 for each criteria</i></p> <ul style="list-style-type: none"> • a presentation of images to an audience; the presentation may be: <ul style="list-style-type: none"> – on screen, using slide show/bitmap software, or – printed in a portfolio, displaying appropriate size and layout <p><i>Assessment Tool</i> <i>Presentations/Reports, COM1210–2</i></p> <p><i>Standard</i> <i>Performance rating of 1 for each criteria</i></p> <ul style="list-style-type: none"> • observations of individual effort and interpersonal interaction during the learning process <p><i>Assessment Tool</i> <i>Basic Competencies Reference Guide and any assessment tools noted above</i></p>	<p></p> <p>40</p> <p>10</p> <p>Integrated throughout</p>

COURSE COM1210: DIGITAL IMAGING 1 (continued)

Concept	Specific Outcomes	Notes
<p>Process and Procedures</p>	<p><i>The student should:</i></p> <ul style="list-style-type: none"> • articulate the “rule of thirds” as it applies to image composition and framing • frame and crop images for composition by demonstrating: <ul style="list-style-type: none"> – focal point; i.e., emphasis – an appropriate layout; i.e., horizontal or vertical – awareness of background – clear focus – composition control • create a directory or folder and move files from a source to a directory • create prints from files • demonstrate, through an experimental approach, the use of bitmap editing software: <ul style="list-style-type: none"> – basic tool box functions – basic menu commands • create, either on screen or in print format, a display of edited images • record on a log sheet, for future reference, the editing effects for each image • present display of edited images; answer questions and discuss solutions to problems that were encountered • demonstrate ethical behaviours by working within school and community standards. 	<p>Student work should demonstrate basic compositional strategies of introductory photography.</p> <p>Go to “Beginning of Photographic Composition” at www.Kodak.com for guidelines on photographic composition; e.g., simplicity, rule of thirds, line, balance, framing.</p> <p>Prior to capturing carefully considered and composed images, students might be given an opportunity to digitally alter problem photographs they are given; e.g., photographs with common problems such as red eye, over/under exposure, lens flare.</p> <p>Basic tool box functions could include use of:</p> <ul style="list-style-type: none"> • masking tools • object selection tools • shape tools • fill and line tools <p>The log sheet can be referenced for discussion during presentation of the composition to an audience.</p>

COURSE COM1210: DIGITAL IMAGING 1 (continued)

Concept	Specific Outcomes	Notes
Applied Technologies	<p><i>The student should:</i></p> <ul style="list-style-type: none"> • explain the advantages and disadvantages of different types of digital cameras • explain and demonstrate basic digital camera functions and commands • use a digital camera as a source for acquiring images • transfer files from a source (i.e., digital camera) to a specified directory using any file manipulation method • explain the advantages and disadvantages of three common file formats • select, with limited assistance, basic bitmap editing functions and commands that are appropriate to the task • use bitmap editing software to create interesting and aesthetically appealing compositions. 	<p>Recommended file formats include:</p> <ul style="list-style-type: none"> • JPG (Joint Photographers Expert Group) • GIF (Graphics Interchange File Format) • TIF (Tagged Image File Format). <p>Research the advantages/disadvantages of conversion file formats by searching the web for “bitmap file formats.”</p>
Presentation	<ul style="list-style-type: none"> • present a series of 10 to 15 edited bitmap compositions to teacher and peers (i.e., a small group) that illustrates teacher-defined expectations • for each composition presented, discuss with reference to a log sheet maintained: <ul style="list-style-type: none"> – problems and solutions – aesthetics – composition – bitmap effects • create a portfolio of projects completed in this course or add projects to an existing portfolio. 	<p>Images should be presented in a simple, yet professional manner.</p> <p>Teacher-defined expectations could require a unified theme, exploration of specific effects or replication of exemplars.</p> <p>The log sheet could consist of handwritten notes for discussion, or text included on the presentation slides.</p>