

COURSE COM2210: DIGITAL IMAGING 2**Level:** Intermediate**Theme:** Photography**Prerequisite:** None**Description:** Students will acquire digital images from a digital camera and one or more other sources. They will extend and refine their knowledge of bitmap editing software and composition principles, and apply more advanced editing techniques to composite images.**Parameters:** Access to a digital camera and one or more other sources of digital images (e.g., Internet, CD-ROM, scanner, screen capture software, other software that can export bitmap files), computer(s) with bitmap editing software and digital storage (e.g., zip drive, CD-ROM writer, hard drive, network drive).**Supporting Courses:** COM2010 Presentation & Communication 2
COM2120 Digital Design 2**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"> • acquire, edit, composite and manipulate images from: <ul style="list-style-type: none"> – a digital camera – one or more other sources for creating or acquiring digital images 	<p><i>Assessment of student achievement should be based on:</i></p> <ul style="list-style-type: none"> • a portfolio of 10 or more bitmap compositions comprised of: <ul style="list-style-type: none"> – five or more finished compositions that illustrate the use of digital photographs as a starting point for digital manipulation and exploration – two or more compositions that illustrate the use of source file(s) obtained from one or more other pieces of software; e.g., vector graphics, two-and/or three-dimensional animation software – three or more compositions that illustrate composite imaging; i.e., multiple source files aggregated to form one unified composition 	80

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General Outcomes	Assessment Criteria and Conditions	Suggested Emphasis
<p><i>The student will:</i></p> <ul style="list-style-type: none"> • create and deliver an on-screen presentation of the completed compositions, using a unified theme or style • demonstrate basic competencies. 	<p><i>Assessment of student achievement should be based on:</i></p> <p>The portfolio should demonstrate:</p> <ul style="list-style-type: none"> – files saved in a format that is most effective for transfer to screen show software or HTML presentation – files saved, either in compressed or uncompressed format, for speed and quality of display on a monitor or projector; resolution should be appropriate for the purpose – the use of different bitmap source file formats – an understanding of composition and aesthetic control – use of a variety of bitmap editing commands and effects, as dictated by software; e.g., filters, mask effects, layers, lenses – a unified theme or style <p><i>Assessment Tool</i> <i>Portfolio Assessment, COM2210–1</i></p> <p><i>Standard</i> <i>Performance rating of 2 for each criteria</i></p> <ul style="list-style-type: none"> • an on-screen presentation of the portfolio to an audience; the presentation must: <ul style="list-style-type: none"> – be unified by theme or style – describe, through text or oral explanation, how compositions were created and saved – illustrate compositional control – demonstrate refined aesthetic awareness <p><i>Assessment Tool</i> <i>Presentations/Reports, COM2210–2</i></p> <p><i>Standard</i> <i>Performance rating of 2 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>20</p> <p>Integrated throughout</p>

COURSE COM2210: DIGITAL IMAGING 2 (continued)

Concept	Specific Outcomes	Notes
<p>Process and Procedures</p>	<p><i>The student should:</i></p> <ul style="list-style-type: none"> • frame and crop images for compositions by demonstrating: <ul style="list-style-type: none"> – focal point; i.e., emphasis – an appropriate format; i.e., horizontal or vertical – awareness of background – clear focus, using either manual or automatic focus features – composition control; e.g., the “rule of thirds” – aesthetic awareness • acquire 10 or more digital photographs to use as a starting point for digital manipulation exploration and compositing • create, or acquire, and export digital images from one or more sources, other than a digital camera, to a specified directory. Sources may include: <ul style="list-style-type: none"> – a scanner – screen capture software – royalty free stock images – three-dimensional rendering software – vector graphics software – animation software • create and maintain a logical directory structure • create a presentation for displaying finished images • present information, orally or in text format, on how each finished composition was created; answer questions and discuss solutions to problems that were encountered • explain the implications of copyright laws; e.g., scanned images and stock photographs must be used with permission • demonstrate ethical behaviours by working within school and community standards. 	<p>Student work should demonstrate concepts of compositional control.</p> <p>Go to “Beginnings of Photographic Composition” at www.kodak.com for guidelines on photographic composition; e.g., simplicity, rule of thirds, line, balance, framing, avoiding mergers.</p> <p>Students may use a digital camera to acquire most of their images, but must also have access to and use one other source for acquiring or creating digital images.</p> <p>Students should make notes for their presentation.</p> <p>Text data may be a handout, notes for oral support, or on-screen annotation explaining the steps in composition generation.</p>

COURSE COM2210: DIGITAL IMAGING 2 (continued)

Concept	Specific Outcomes	Notes
<p>Applied Technologies</p>	<p><i>The student should:</i></p> <ul style="list-style-type: none"> • demonstrate the use of one or more of the following sources for creating or acquiring images, or specific portions of images: <ul style="list-style-type: none"> – a scanner – screen capture software – stock photographs; e.g., from the Internet or CD-ROM – animation software – three-dimensional rendering software – vector graphics, or hybrid vector/raster software – other software as dictated by lab facilities • apply bitmap editing effects to create interesting and aesthetically appealing compositions. Bitmap editing should demonstrate the use of: <ul style="list-style-type: none"> – basic tool box functions – basic menu commands – filters, effects, plug-ins • create, alter, delete and generally maintain a logical directory structure for saving work • identify and describe common file formats, with reference to: <ul style="list-style-type: none"> – advantages and disadvantages – problems and solutions – compression issues – export methods – issues surrounding multiple file formats • apply advanced digital camera functions, commands and effects, based on camera features available for a specific purpose • select, with limited assistance, advanced bitmap editing functions and commands that are appropriate to the task. 	<p>Students should be able to aggregate different sources of bitmap data to create composited images.</p> <p>Specific lab software will dictate effects and filters.</p> <p>Students may wish to use:</p> <ul style="list-style-type: none"> • JPG (Joint Photographers Expert Group) • GIF (Graphics Interchange File Format) • TIF (Tagged Image File Format) • CDR (CorelDRAW! Vector Graphic) • PSD (PhotoShop Bitmap File) • CPT (Corel Photo-Paint Bitmap File) • EMF (Enhanced Metafile) • WMF (Windows Metafile) • PIC (Lotus Picture File). <p>Other file formats and compression schemes may be chosen as the need arises. Research applications of different file formats on the Internet.</p>

COURSE COM2210: DIGITAL IMAGING 2 (continued)

Concept	Specific Outcomes	Notes
Presentation	<p><i>The student should:</i></p> <ul style="list-style-type: none"> • present a series of 10 or more finished bitmap compositions to teacher(s) and peers that illustrate thematic or stylistic unity • discuss the images that are presented in terms of: <ul style="list-style-type: none"> – problems and solutions – aesthetics – composition – copyright issues – bitmap effects – file import/export issues – compression/decompression issues • generate a handout, notes or text data on screen for oral support during the presentation • create and present a portfolio of work completed in this course or add work completed to an existing portfolio; the portfolio should be written to CD-ROM/zip disk or saved to a hard drive. 	<p>Presentations may be completed in PowerPoint, HTML or other formats as dictated by lab facilities.</p> <p>Potentially useful sources of information are available through the Internet at:</p> <ul style="list-style-type: none"> • http://www.focalfix.com/ • http://www.lonestar.digital.com/ • http://www.kodak.com/US/en/nav/digital/shtml • http://www.shortcourses.com/ <p>Megapixel.net is a monthly digital camera web magazine available at http://www.megapixel.net/</p>

