

COURSE COM1035: GRAPHICS TOOLS

Level: Introductory

Prerequisite: COM1005: Visual Composition

Description: Students are introduced to the basics of computer graphics (vector and raster), and graphic computer programs.

Parameters: Access to a computer, electronic storage equipment, graphic creation/manipulation software, image-capture devices.

Outcomes: The student will:

1. investigate graphic programs

1.1 describe key features of graphic programs, considering:

- 1.1.1 purpose/use
- 1.1.2 resources required
- 1.1.3 cost
- 1.1.4 ease of use
- 1.1.5 industry standards

1.2 explain the advantages of using vector-based versus raster-based formats

2. select and use appropriate applications to create basic vector and raster graphic images

2.1 understand and use the primary program interface, using correct terminology

2.2 understand the importance and purpose of various file formats, resolutions and file sizes

2.3 set up a new document, considering:

- 2.3.1 size and type of output
- 2.3.2 units of measure
- 2.3.3 bleeding
- 2.3.4 use of colour in graphics
- 2.3.5 appropriate colour mode
- 2.3.6 pixel ratio

2.4 import images from various image-capture devices into a graphics program; e.g., stock images, photographs, scanned images

2.5 use help functions and references as appropriate

2.6 demonstrate use of basic tools; e.g., selection, crop, slice, drawing, type, retouching, reshaping, symbol, graph, annotation, measuring, navigation

2.7 create and/or manipulate original vector and raster graphics

3. organize and manage image files using correct file conventions

4. identify copyright restrictions and permissions and put them into practice

5. present a selection of work completed in this course to an audience

5.1 discuss work regarding:

- 5.1.1 how the elements and principles of design help facilitate good composition
- 5.1.2 the technical and creative aspects of the work; e.g., quality, uniqueness
- 5.1.3 areas of concern/difficulty (if applicable)
- 5.1.4 meeting school and community standards; e.g., appropriate language
- 5.1.5 the use of tools and equipment

5.2 participate in peer/teacher assessment

5.3 add the selected work to a portfolio

- 6. apply consistent and appropriate work station routines**
 - 6.1 demonstrate good health and safety practices; e.g., posture, positioning of hardware and furniture
 - 6.2 demonstrate security for hardware, software, supplies and personal work
- 7. demonstrate basic competencies**
 - 7.1 demonstrate fundamental skills to:
 - 7.1.1 communicate
 - 7.1.2 manage information
 - 7.1.3 use numbers
 - 7.1.4 think and solve problems
 - 7.2 demonstrate personal management skills to:
 - 7.2.1 demonstrate positive attitudes and behaviours
 - 7.2.2 be responsible
 - 7.2.3 be adaptable
 - 7.2.4 learn continuously
 - 7.2.5 work safely
 - 7.3 demonstrate teamwork skills to:
 - 7.3.1 work with others
 - 7.3.2 participate in projects and tasks
- 8. make personal connections to the cluster content and processes to inform possible pathway choices**
 - 8.1 complete/update a personal inventory; e.g., interests, values, beliefs, resources, prior learning and experiences
 - 8.2 create a connection between a personal inventory and occupational choices