

DIGITAL ANIMATION AND MULTIMEDIA

BS000014 (1st or 2nd Semester)

Grades 10, 11, 12

½ Unit

Prerequisite: None (Multimedia Applications Recommended)

Digital Animation and Multimedia will explore the use of computer animation in both multimedia projects and for use on the Internet. Students will also be introduced to the fundamentals needed to develop and publish effective web pages. The class will conclude with a project that will utilize the software learned in both Multimedia Applications and Digital Animation and Multimedia.

*This course can be taken to satisfy the ½ credit graduation requirement in computers.

Digital Animation and Multimedia CCO#1: Students will explore and create animations to be used within multimedia presentations and on web pages. (1.1, 1.2, 1.4, 1.6, 1.7, 1.8, 1.9, 1.10, 2.1, 2.2, 2.3, 2.5, 2.6, 2.7, 3.1, 3.2, 3.3, 3.4, 3.5, 3.6, 3.7, 3.8, 4.1, 4.4, 4.5, 4.6, 4.8, CA4, CA5, CA6)

Digital Animation and Multimedia CCO#2: Students will explore and apply the fundamentals of web design (1.1, 1.2, 1.4, 1.6, 1.7, 1.8, 1.9, 1.10, 2.1, 2.2, 2.3, 2.5, 2.6, 2.7, 3.1, 3.2, 3.3, 3.4, 3.5, 3.6, 3.7, 3.8, 4.1, 4.4, 4.5, 4.6, 4.8, CA4, CA5, CA6)

Digital Animation and Multimedia CCO#3: Students will explore and apply the fundamentals of web publishing. (1.1, 1.2, 1.4, 1.6, 1.7, 1.8, 1.9, 1.10, 2.1, 2.2, 2.3, 2.5, 2.6, 2.7, 3.1, 3.2, 3.3, 3.4, 3.5, 3.6, 3.7, 3.8, 4.1, 4.4, 4.5, 4.6, 4.8, CA4, CA5, CA6)

Digital Animation and Multimedia CCO#4: Students will integrate animation and web design and publishing with skills learned in Multimedia Application I to create an electronic business project. (1.1, 1.2, 1.4, 1.6, 1.7, 1.8, 1.9, 1.10, 2.1, 2.2, 2.3, 2.5, 2.6, 2.7, 3.1, 3.2, 3.3, 3.4, 3.5, 3.6, 3.7, 3.8, 4.1, 4.4, 4.5, 4.6, 4.8, CA4, CA5, CA6)

Digital Animation and Multimedia CCO#1: Students will explore and create animations to be used within multimedia presentations and on web pages. (1.1, 1.2, 1.4, 1.6, 1.7, 1.8, 1.9, 1.10, 2.1, 2.2, 2.3, 2.5, 2.6, 2.7, 3.1, 3.2, 3.3, 3.4, 3.5, 3.6, 3.7, 3.8, 4.1, 4.4, 4.5, 4.6, 4.8, CA4, CA5, CA6)

Digital Animation and Multimedia CCO#1 – Essential Content and Skills

Students will:

- A. plan storyboards, lighting, rendering and editing and how they apply to animation production
- B. explore how to create animation and special effects such as symbols, text animation, tweening, keyframes, animated buttons with sounds, color effects, importing bitmaps, and beginning action scripting
- C. create action buttons that increase interactivity within an animation.
- D. create movement and expression utilizing traditional or electronically generated image sequences.
- E. investigate the differences between classical animation, 2D computer animation and 3D computer animation.
- F. create GIF animations and animated banners.
- G. create interactive menu bars
- H. explore and utilize the following Internet plugins Flash, Adobe Acrobat (PDF), Quicktime, Windows Media Player, Shockwave and recommend the newest possible versions of Internet Explorer or Netscape.

Digital Animation and Multimedia CCO#1 – Facilitating Activities

The students may:

1. create a simple animation that spells their name (3, 5) (T)
2. create a introduction animation for a web page (3, 5) (T)
3. plan and create a looping animation with a button that links to a conclusion(3, 5) (T)
4. plan and create an interactive study guide (3, 5) (T)
5. create an animated business card (3, 5) (W, T)
6. plan and create an animated advertisement banner for a web page (3, 5) (T)
7. use the internet to find examples of animation being used on the internet (3) (R, T)
8. create an interactive menu bar with animated buttons (3, 5) (T)
9. create an animation transition for linking to other pages (3, 5) (T)
10. create an introduction page for a presentation or web page that has a continuous loop (3, 5) (T)
11. create an personal morphing animation from scanned or digital images (3, 5) (T)
12. create an animation that draws your name in cursive (3, 5) (T)

13. create an autobiography includes morphed pictures (3, 5) (T)
14. create a wanted poster for an alien who can morph from human to alien and show morphing (3, 5) (T)
15. create an animation that explains your favorite sport or sports team (3, 5) (T)

Digital Animation and Multimedia CCO#1 – ALA: The students will plan and create a multimedia presentation that utilizes and demonstrates the various elements of animation.

Digital Animation and Multimedia CCO#1 – ALA

The students will plan and create a multimedia presentation that utilizes and demonstrates the various elements of animation.

Digital Animation and Multimedia CCO#1 – Scoring Guide

<u>Criteria</u>	<u>Excellent</u>	<u>Superior</u>	<u>Average</u>	<u>Needs Improve.</u>
Scenes	4 or more Scenes used	3 Scenes used	2 Scenes used	1 Scene used
Movement	Object action moves without noticeable delays	Object action moves with few noticeable delays	Object actions moves with many noticeable delays	Object does not move
Sound	2 or more sounds added to animation	2 sounds added to animation	1 sound added to animation	No sound
Clarity and effectiveness	Animation works as planned	Animation works with 2 or less errors noticed	Animation works with more than 2 errors noticed	Many errors and does not work

Digital Animation and Multimedia CCO#2: Students will explore and apply the fundamentals of web design. (1.1, 1.2, 1.4, 1.6, 1.7, 1.8, 1.9, 1.10, 2.1, 2.2, 2.3, 2.5, 2.6, 2.7, 3.1, 3.2, 3.3, 3.4, 3.5, 3.6, 3.7, 3.8, 4.1, 4.4, 4.5, 4.6, 4.8, CA4, CA5, CA6)

Digital Animation and Multimedia CCO#2 – Essential Content and Skills

Students will:

- A. Learn about the internet/web basics/brief history
- B. Understand browser basics
- C. Technologies (email, ftp, http)
- D. Use web authoring software.
- E. Plan and create a web site
 - 1. Develop web pages using text, graphics and table
 - 2. Organize and navigate links
 - 3. Create hyperlinks (internal and external)
 - 4. Optimize images to reduce file size and to increase page loading speed.
- F. Working with images
 - 1. Making/editing links
 - 2. Insert and playing media
- A. Internet etiquette
- B. Organize the files of a web site for efficient updating
- C. Test, manage and update a small site

Digital Animation and Multimedia CCO#2 – Facilitating Activities

The students may:

- 1. outline the pre-production process for creating a web site (2) (T)
- 2. draw and identify the different web page elements (2, 3) (T)
- 3. debug a previously created web page (5) (T)
- 4. review three web pages and give recommendations on how to improve them. (2, 6) (T)
- 5. create a story board for a personal web page (3, 5)
- 6. describe some do's and don'ts for creating a successful web site (2)
- 7. build on-line forms for visitor feedback or surveys (5) (T)
- 8. report on current news and issues that will affect the designing and using of web pages (2) (T)
- 9. use an HTML editor to create a professional-quality personal homepage containing text, graphics, animations, and internal and external hyperlinks (3, 5) (T)
- 10. create a web site resume (3) (W, T)
- 11. create a web site for a new country (3, 5). (T)

Digital Animation and Multimedia CCO#2 – ALA

The students will create a three-page minimum web site using an authoring package that will include the following:

1. Links—internal and external (at least one of them must be a graphic link)
2. A list.
3. Graphics—at least two (not counting slices of the same graphic) in addition to any logo or banner used.
4. Headline set in a non-standard display font
5. Use of text wrap
6. An image map
7. Styles for at least three levels of text formatting (heads, subheads, text, captions)

Digital Animation and Multimedia CCO#2 – Scoring Guide

<u>Criteria</u>	<u>Excellent</u>	<u>Superior</u>	<u>Average</u>	<u>Needs Improve.</u>
Uses examples of required items	7	5-6	3-4	0-2
Page design	Page is attractive, easy to maneuver and has no errors	Effective use of color and font, minor maneuver clarifications needed, no errors	A little distracting with colors and fonts, some problem to maneuver, some errors	Cluttered and hard to read, not easy to maneuver, many errors
Execution—accuracy, sophistication, additional elements	No execution errors	Minimal execution errors	A few execution errors	More than three execution errors
Overall impact and clarity	Links recognizable and clearly explained, topic focused, well formatted and easy to read	Most links labeled and explained, topic focused, some formatting problems and easy to read	Links not labeled and explained, topic a little broad, some formatting problems and a little hard to read	Topic too broad, links not identified and unable to follow intentions of the author

Digital Animation and Multimedia CCO#3: Students will explore and apply the fundamentals of web publishing. (1.1, 1.2, 1.4, 1.6, 1.7, 1.8, 1.9, 1.10, 2.1, 2.2, 2.3, 2.5, 2.6, 2.7, 3.1, 3.2, 3.3, 3.4, 3.5, 3.6, 3.7, 3.8, 4.1, 4.4, 4.5, 4.6, 4.8, CA4, CA5, CA6)

Digital Animation and Multimedia CCO#3 – Essential Content and Skills

Students will:

- A. Create and register a domain name
- B. Explain various domain name extensions and who can use them
- C. Explore various web host and their features
- D. Publish a web site
 1. upload files to web server
 2. website accessibility and promotion
 3. places to post a web site
 4. maintain a web site
 5. title tags
- E. Describe start-up and maintenance costs
- F. Transfer files using FTP
- G. Publish web pages using non HTML software like MS-Word, Power Point, etc.

Digital Animation and Multimedia CCO#3 – Facilitating Activities

The students may:

1. research and recommend the best web host available and why (4, 6)
2. interview and survey other students in order to choose the best domain name for a web site. (3, 4, 6)
3. explain the importance of title tags and give examples (2)
4. create a home page using either Word or Powerpoint that has links to other sites (5) (T)
5. communicate and transfer files using e-mail (2, 3) (W, T)
6. identify issues related to website usability and functionality. (2)
7. optimize and program webpages for Internet search engines. (3) (T)
8. create and publish a photo album using powerpoint. (3, 5) (T)
9. create an interactive newsletter in publisher and publish. (3, 5) (T)
10. research and give a report on three sites that offer free web space (2, 4)
11. troubleshoot sample webpages and make recommendations on how to improve them before publishing. (4, 6) (T)
12. create a personal domain name and location. (3) (T)

Digital Animation and Multimedia CCO#3 – ALA

The students will recommend and give advice on how to register and publish a web page and the considerations that should be made for a business web site.

Digital Animation and Multimedia CCO#3 – ALA

The students will recommend and give advice on how to register and publish a web page and the considerations that should be made for a business web site.

Digital Animation and Multimedia CCO#3 – Scoring Guide

<u>Criteria</u>	<u>Excellent</u>	<u>Superior</u>	<u>Average</u>	<u>Needs Improve.</u>
Web hosting	Shows knowledge of different types of web host and can give advice	Shows some knowledge and can give at least one example of host	Shows some knowledge but unable to recommend	Shows little knowledge
Naming and registering a domain name	Able to name and register domain name without assistance	Able to name and locate where to register	Able to name, but not able to register	Unable to name or register
Publishing a web site	Site published with no problems	Site published with little assistance	Site published with help	Site not published
Searchability	Site able to be located using five or more key words	Site able to be located using between 2-4 key words	Site able to be located with only 1 key word	Site unable to be located

Digital Animation and Multimedia CCO#4: Students will integrate animation, web design and publishing with skills learned in Multimedia Application I to create an electronic business project. (1.1, 1.2, 1.4, 1.6, 1.7, 1.8, 1.9, 1.10, 2.1, 2.2, 2.3, 2.5, 2.6, 2.7, 3.1, 3.2, 3.3, 3.4, 3.5, 3.6, 3.7, 3.8, 4.1, 4.4, 4.5, 4.6, 4.8, CA4, CA5, CA6)

Digital Animation and Multimedia CCO#4 – Essential Content and Skills

Students will:

- A. Integrate desktop publishing features into project
- B. Integrate the fundamentals of digital manipulation and photo editing into project
- C. Integrate video creation and video editing into project
- D. Integrate animation into project
- E. Integrate the fundamentals of web design

Digital Animation and Multimedia CCO#4 – Facilitating Activities

The students may:

- 1. produce a business catalog web site (3) (W, T)
- 2. create a recruiting multimedia presentation for a school class or activity (3, 5) (T)
- 3. create an interactive newsletter about a topic of their choice (3, 5) (T)
- 4. produce a interactive tutorial (3) (T)
- 5. create a web site that can be used to collect customer information and a mailing list for a business (3, 5) (T)
- 6. create an interactive application package that has links to a personal web page (5) (T)
- 7. critique school webmaster either create or update parts of the school web site (5) (T)
- 8. build a web page for a school organization (3, 5) (T)
- 9. produce a presentation to be used at curriculum night for a department at school (3) (T)
- 10. create and manage a web page for a community service project that signs up volunteers and schedules activities. (3, 5, 6) (T)
- 11. illustrate a web page that advertises a business or product (3) (T)

Digital Animation and Multimedia CCO#4 – ALA

The students will research, locate, plan, develop, implement and evaluate a presentation or a web page that will promote, inform, or sell a business, a product, or an organization.

Digital Animation and Multimedia CCO#4 – ALA

The students will research, locate, plan, develop, implement and evaluate a presentation or a web page that will promote, inform, or sell a business, a product, or an organization.

Digital Animation and Multimedia CCO#4 – Scoring Guide

<u>Criteria</u>	<u>Excellent</u>	<u>Superior</u>	<u>Average</u>	<u>Needs Improve.</u>
Quality of Research	More than 4 options with advantages and disadvantages of each	Three options with advantages and disadvantages of each	Two options with advantages and disadvantages of each	One or less options with advantages and disadvantages of each
Written plan	Presentation/site is outlined /flowcharted and demonstrates knowledge of chosen applications	Presentation/site is outlined /flowcharted and demonstrates some knowledge of chosen applications	Presentation/site shows little planning and knowledge of chosen applications	Presentation/site is not planned and demonstrates little knowledge of chosen applications
Project	Project meets goals of organization and incorporates numerous examples of course applications	Project somewhat meets the goals of the organization and incorporates more than two examples of course applications	Project meets few goals of the organization and incorporates at least one example of course applications	Does not meet the goal and does not incorporate course applications
Evaluation	Evaluation objective and gives more than three well explained recommendations for future	Evaluation objective and gives two well explained recommendations for future	Evaluation helpful with at least one recommendation for future	Evaluation demonstrates little knowledge of process