

Digital Media Technology Flow Chart

Computer Graphics & Web Design Flow Chart

Intro to Computer Graphics
MGD 101★ ✓

Web Design 1
MGD 141★ ✓

Advanced Web Design

Photoshop
MGD 111★ ✓

Illustrator
MGD 112★ ✓

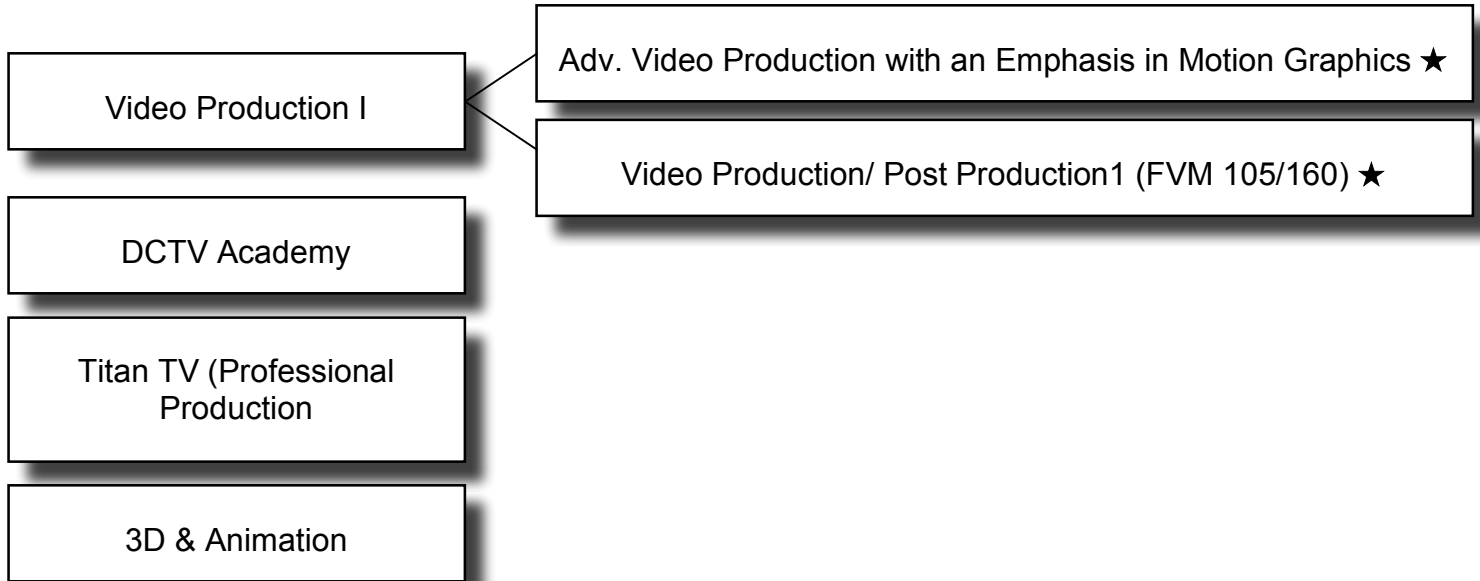
Adobe InDesign
MGD 114★ ✓

Motion Graphics
MGD 143★ ✓

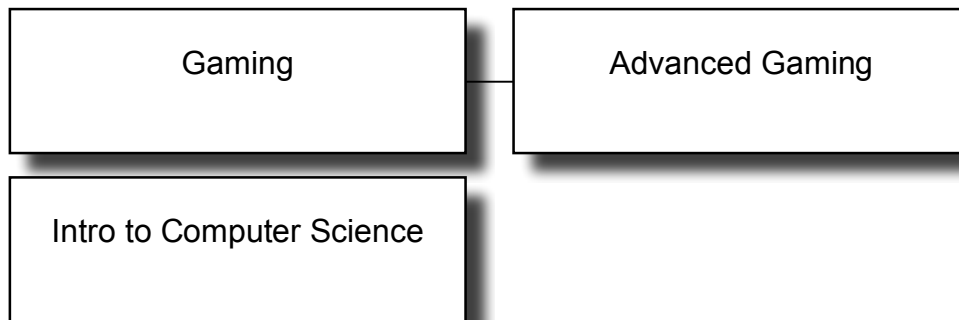
Architectural Drafting
(Computer Aided Drafting-CAD)

✓ **At the successful completion (grade C or better) of these courses student will earn a Computer Graphics Certificate. A Computer Graphics Certificate combines employment preparation as well as a seamless entry into degree programs in graphics and design.**

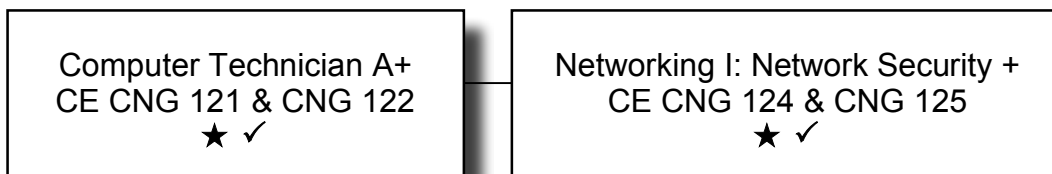
Video Production & Computer Animation



Computer Science & Gaming Flow Chart



Computer Networking Flow Chart



MULTIMEDIA AND COMPUTER SCIENCE

Department Chair: Debbie Tawzer

Course Offerings:

<p>Grade 9 Grade 10</p>	<ul style="list-style-type: none"> • Intro to Computer Graphics/MGD 101 • Photoshop I /MGD 111 • Illustrator I / MGD 112 • Web Design I/ MGD 141 • Adobe InDesign /MGD 114 • Motion Graphics: Flash/MGD 143 • Advanced Web Design • Video Production I • Advanced Video Production I Emphasis in Motion Graphics 	<ul style="list-style-type: none"> • Video Production I/Post Production I FVM 101/105 • DCTV Academy/Titan TV • Titan TV/Professional Production • 3D & Animation • Advanced 3D/Animation • Gaming • Advance Gaming • Intro to Computer Science
<p>Grade 11 Grade 12</p>	<ul style="list-style-type: none"> • Intro to Computer Graphics/MGD 101 • Photoshop I / MGD 111 • Illustrator I / MGD 112 • Web Design I / MGD 141 • Adobe InDesign / MGD 114 • Motion Graphics: Flash/ MGD 143 • Advanced Web Design • Video Production I • Advanced Video Production I Emphasis in Motion Graphics 	<ul style="list-style-type: none"> • Adv. Video Production I/Post Production I FVM 101/105 • DCTV Academy/Titan TV • Titan TV/Professional Production • 3D & Animation • Advanced 3D/Animation • Gaming • Advance Gaming • Intro to Computer Science • Computer Tech. I: A+ • Networking I: Net +

✓ At the successful completion (grade C or better) of these courses students will earn a Computer Graphics Certificate. A Computer Graphics Certificate combines employment preparation as well as a seamless entry into degree programs in graphics and design.

Course Descriptions – Computer Graphics and Web Design

45455S1 Architectural Drafting (Computer Aided Drafting-CAD)

Credit: 1.0

Grades: 9, 10, 11, 12

Prerequisite: None

Fee: \$35.00

Focuses on basic computer aided drafting skills using the latest release of CAD software. Includes file management, Cartesian coordinate system, drawing set-ups, drawing aids, layer usage, drawing geometric shapes, editing objects, array, text applications, basic dimensioning, and Help access.

69301 CE MGD 101 Intro to Computer Graphics

Credit: 0.5 ★✓ (ACC 3.0)

Grades: 9, 10, 11, 12

Prerequisite: None

Fee: \$35.00

Introduces the types of equipment and technical considerations used in multimedia productions and the multimedia professions. It focuses on current types of equipment such as scanners, printers, digital cameras and computers. Students gain hands-on experience in how the technology is utilized for input and output in production and design projects. Overview of software and basic design principles will be explored

69302 CE MGD 111 Photoshop I**Credit:** 0.5 ★✓ (ACC 3.0)**Grades:** 9, 10, 11, 12**Prerequisite:** None**Fee:** \$35.00

Concentrates on the high-end capabilities of a raster photo-editing software as an illustration, design and photo retouching tool. Students explore a wide range of selection and manipulation techniques that can be applied to photos, graphics and videos.

69303 CE MGD 112 Illustrator**Credit:** 0.5 ★✓ (ACC 3.0)**Grades:** 9, 10, 11, 12**Prerequisite:** None**Fee:** \$35.00

Acquaints students with the processes of a vector drawing program on the computer. Students learn how to use the tools to create digital artwork that can be used in web design, print media and digital screen design..

69304 CE MGD 141 Web Design I**Credit:** 0.5 ★✓ (ACC 3.0)**Grades:** 9, 10, 11, 12**Prerequisite:** None**Fee:** \$35.00

Introduces web site planning, design and creation using industry-standards-based web site development tools. Screen-based color theory, web aesthetics, use of graphics editors and intuitive interface design are explored.

31015 Advanced Web Design**Credit:** 0.5**Grades:** 9, 10, 11, 12**Prerequisite:** Teacher recommendation & signature**Fee:** \$35.00

This course will provide further study in the field of web design and development as you learn to integrate aesthetic design principles with web page scripting skills. You will incorporate basic scripting languages like HTML and Java Script into the use of Adobe Dreamweaver, Adobe Photoshop and Adobe Flash to create dynamic and e-commerce website projects. Various topics such as plug-ins, applets, URL and domain names will also be discussed. Students may enroll in this course multiple times for credit.

69305 CE MGD 143 Motion Graphic Design I:**Flash****Credit:** - 0.5 ★✓ (ACC 3.0)**Grades:** 9, 10, 11, 12**Prerequisite:** None**Fee** - \$35.00

Stresses creation of animation and dynamic interactive media for web and multimedia applications. Students will learn how to animate objects, create symbols, and assemble motion tweens.

69306 CE MGD 114 Adobe InDesign**Credit:** - 0.5 ★✓ (ACC 3.0)**Grades:** 9, 10, 11, 12**Prerequisite:** None**Fee** - \$35.00

Introduces student to InDesign, a page layout program which integrates seamlessly with other Adobe design programs. InDesign delivers creative freedom and productivity to DTP. Class discussions and independent projects supplement hands-on classroom work.

Course Descriptions – Video and Animation

31000 Video Production I

Credit: 0.5

Grades: 9, 10, 11, 12

Prerequisite: None

Fee: \$35.00

This course covers the basics of TV and video production. Students will learn all aspects of video production, including camera techniques, editing, directing, lighting and sound. Introduces students to digital non-linear video editing. Students will capture, compress, edit, and manipulate video images using a personal computer. Assembly techniques including media management, editing tools, titles, and motion control; transitions and filters, and special effects are explored. Students will produce several video projects, including commercials, short films, documentaries, and television-style productions. Students enrolled in this course are expected to complete work requiring a high degree in independence and responsibility.

69313S1 & 69313S2 Video Production I / Post Production I - FVM 105/FVM 160 H

Credit: 0.5 ★ (6.0 CFS Colorado Film School)

Grades: 9, 10, 11, 12

Prerequisite: Students must have received an "A" or "B" in Video Production I.

Fee: - \$35.00

This course is designed to give students a better understanding of the process of producing a short film or video. This introduction to visual storytelling provides students with the opportunity to identify the components and explore the expressive visual elements that compromise narrative motion pictures. With an emphasis on creating emotional connections between character and audience, this course will help students learn techniques to create and illustrate effective and dimensional stories. Students will also learn the art of collaboration, which is necessary for film production. The student will demonstrate comprehension of basic editing techniques to enhance visual storytelling. The student will learn to critically analyze shot construction, motion and composition in storytelling and character development for films.

30581 Advanced Video Production - Motion Graphics Emphasis

Credit: 0.5

Grades: 9, 10, 11, 12

Prerequisite: Students must have received an "A" or "B" in Video Production I.

This course may be taken multiple times for high school credit.

Fee: \$35.00

This course is designed to give students a better understanding of the process of producing a short film or video. This introduction to visual storytelling provides students with the opportunity to identify the components and explore the expressive visual elements that compromise narrative motion pictures. With an emphasis on creating emotional connections between character and audience, this course will help students learn techniques to create and illustrate effective and dimensional stories. Students will also learn the art of collaboration, which is necessary for film production. Continues the basic concepts and skills of video post production with an emphasis on non-linear editing. The student will demonstrate comprehension of basic editing techniques to enhance visual storytelling. The student will learn to critically analyze shot construction, motion and composition in storytelling and character development for films.

31040S1 DCTV Academy - Zero Hour only (TITAN TV/LHS Announcements)

Credit: 0.5

Grades: 9, 10, 11, 12

Prerequisite: Teacher signature

Fee: \$35.00

The focus of the course is two-fold:1) the intensive study of television and film production techniques and 2) the hands-on production of the daily announcements. Students will be responsible for learning in a variety of ways: the production of television broadcasts and segments and television segments or shows..

31040S1 TITAN TV/Professional Production**Credit:** 0.5**Grade:** 9, 10, 11, 12**Prerequisite:** Teacher signature

The focus of the course is two-fold:1) the intensive study of television and film production techniques and 2) the hands-on production of a daily television news show Titan TV broadcast to the school along with producing short-films/field reports for the broadcasts. Students will be responsible for learning in a variety of ways: the production of television broadcasts and segments and television segments or shows.

31010 3D & Animation (Computer Animation)**Credit** 0.5**Grades:** 9, 10, 11, 12**Fee:** \$35.00

This course focuses on using advanced software applications for developing two and three dimensional animations. Upon completion of this course, students will have the fundamental skills to create animated short movies. Students will learn to create with software applications such as Adobe Illustrator, Photoshop, and Maya.

31030 Advanced 3D/Animation (Advanced Computer Animation)**Credit:** 0.5**Grades:** 9, 10, 11, 12**Prerequisite:** Teacher signature**Fee:** \$35.00

This course focuses on using advanced software applications for developing two and three dimensional animations. Upon completion of this course, students will have the fundamental skills to create animated short movies and to develop advanced models for movies and gaming. Students will learn to create with software applications such as Adobe Illustrator, Photoshop, and Maya. Students may enroll in this course multiple times for credit.

Course Descriptions – Computer Science and Gaming

31005 Gaming**Credit:** 0.5**Grades:** 9, 10, 11, 12**Prerequisite:** None**Fee:** \$35.00

Take your love of gaming to a whole new level by designing and developing your own computer games! Learn the programming basics needed to create various types of games.

31020 Advanced Gaming**Credit:** 0.5**Grades:** 9, 10, 11, 12**Prerequisite:** Gaming and/or Teacher signature**Fee:** \$35.00

Introduces computer program design using concepts of structured programming and logic. Includes pseudocode, flowcharts, and structure charts. Covers variables, data types, control structures, looping, program breaks, and arrays. Students may enroll in this course multiple times for credit.

30455 Intro to Computer Science (Intro to Programming)**Credit:** 0.5**Grades:** 9, 10, 11, 12**Prerequisite:** None**Fee:** \$35.00

This class serves as an introduction to Computer Science for any student interested in how computers work and what they can do. Topics include introductions to modern computer languages and object oriented programming. This course is a standalone, one semester course with no programming or computer experience required. This course is a prerequisite for the Advanced Placement Computer Science AB course.

Course Descriptions – Computer Networking

68015 CNG 121/122 Computer Technician I: A+**Credit:** 2.0 ★✓ (ACC 8.0)**Grades:** 11, 12**Prerequisite:** none

Provides students with an in-depth look at personal computer hardware, introduces O.S. features and security concepts, and covers interpersonal skills, all of which are necessary for a successful entry-level computer service technician position. Provides extensive hands-on work with computer systems, PC setup and configuration, and basic maintenance and troubleshooting. System backup and Recovery, Networking, and O.S. Troubleshooting This course helps prepare you for the CompTIA A+ Essentials and 602 Exam.

68016 CNG 124/125 Networking I: Network+**Credit:** 2.0 ★✓ (ACC 6.0)**Grades:** 11, 12**Prerequisite:** none

Provides students with the knowledge necessary to understand, identify and perform necessary tasks involved in supporting a network. Covers the vendor-independent networking skills and concepts that affect all aspects of networking, such as installing and configuring the TCP/IP. This course also prepares students for the Networking II: Network + course.

Course Descriptions – Specialty Courses

30526 Tech Support**Credit:** 0.5**Grade:** 10, 11, 12**Prerequisite:** Students must get a Technology Instructor's signature, application and have received an "A" or a "B" in at least one computer course.

Students will help assist with technical issues around the building and the refurbishing of computers. Advanced technology skills in the Internship program will be learned.