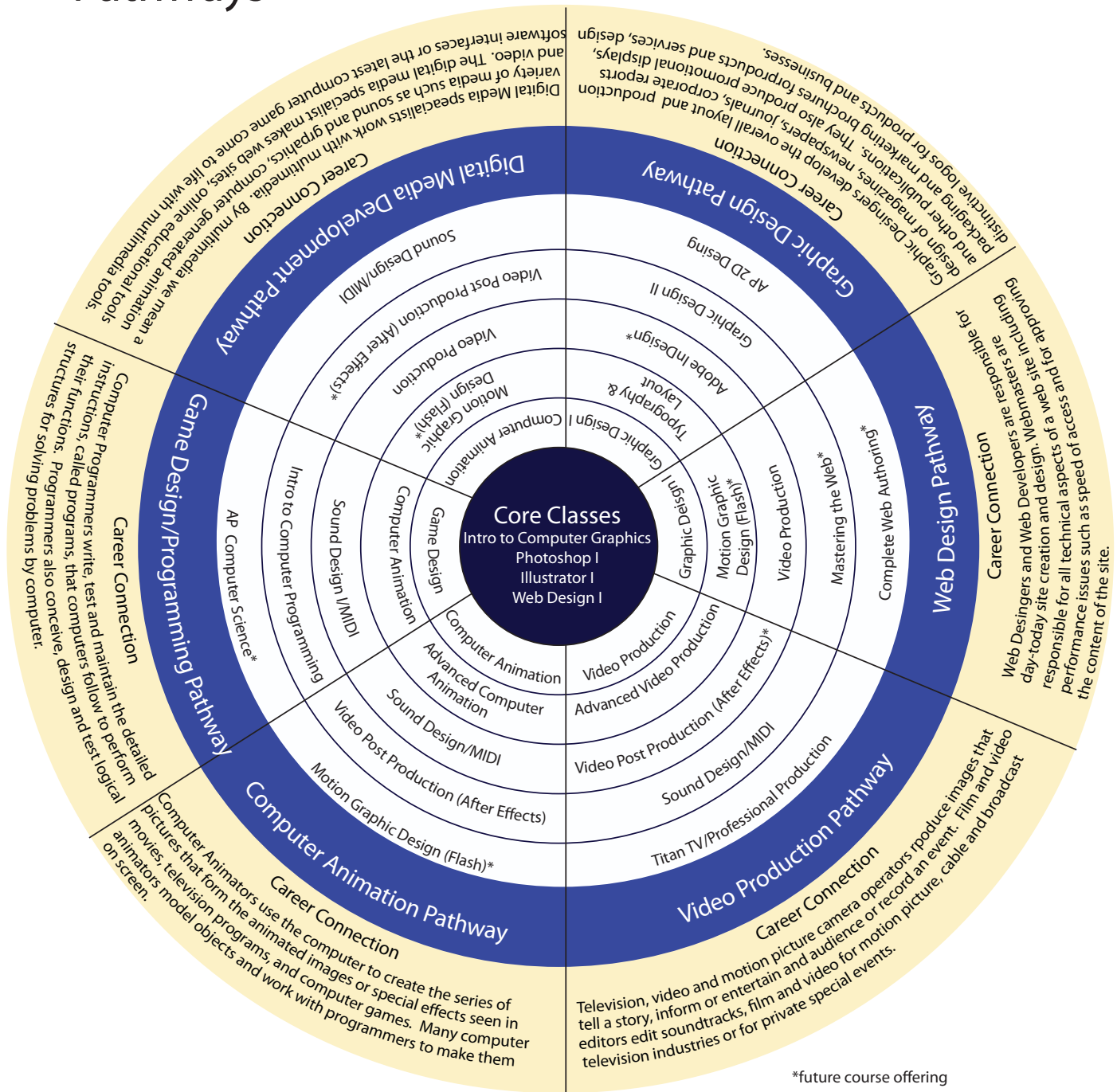


Digital Media & Technology Pathways



*future course offering

COMPUTER SCIENCE, TECHNOLOGY

Department Chair: Debbie Tawzer

Course Offerings:

Grade 9	<ul style="list-style-type: none"> • 3D & Animation • Advanced 3D/Animation • Gaming • Advanced Gaming • CE MGD 112 Illustrator I • Intro to Multimedia (ACC credit pending) • Intro to PC Applications (ACC credit) • Intro to Computer Science 	<ul style="list-style-type: none"> • CE MGD 111 Photoshop I • TITAN TV/LHS Announcements • Video Production • Advanced Video Production • Web Design I (ACC credit) • Advanced Web Design
Grade 10	<ul style="list-style-type: none"> • 3D & Animation • Advanced 3D/Animation • Gaming • Advanced Gaming • CE MGD 112 Illustrator I • Intro to Multimedia (ACC credit pending) • Intro to PC Applications (ACC credit) • Intro to Computer Science 	<ul style="list-style-type: none"> • CE MGD 111 Photoshop I • Tech Support • TITAN TV/LHS Announcements • Video Production • Advanced Video Production • CE MGD 141 Web Design I • Advanced Web Design
Grade 11	<ul style="list-style-type: none"> • 3D & Animation • Advanced 3D/Animation • Gaming • Advanced Gaming • CE MGD 112 Illustrator I • Intro to Multimedia (ACC credit pending) • Intro to PC Applications (ACC credit) • Intro to Computer Science 	<ul style="list-style-type: none"> • CE MGD 111 Photoshop I • Tech Support • TITAN TV/LHS Announcements • Video Production • Advanced Video Production • CE MGD 141 Web Design I • Advanced Web Design
Grade 12	<ul style="list-style-type: none"> • AP Computer Science A • AP Computer Science AB • 3D & Animation • Advanced 3D/Animation • Gaming • Advanced Gaming • Game Programming • CE MGD 112 Illustrator I • Intro to Computer Science • CE MGD 101 Intro to Multimedia • CE CIS 118 Intro to PC Applications • Intro to Computer Science 	<ul style="list-style-type: none"> • MOSC • Net + • Oracle Academy • CE MGD 111 Photoshop I • Tech Support • TITAN TV/LHS Announcements • Video Production • CE MGD 141 Web Design I • Advanced Video Production • Advanced Web Design • Web Page Production

Course Descriptions

69020 CE CIS 118 Intro to PC Applications (College Credit)

Credit: 0.5

Grades: 9, 10, 11

Prerequisite: None

Introduces computer concepts and components, as well as application-suite software and the Internet. Includes descriptions of and hands-on experience with word processing, spreadsheets, databases, operating environments and other common PC application packages.

69304 CE MGD 141 Web Design I (Dual College Credit Pending)

Credit: 0.5

Grades: 9, 10, 11

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.

30455 Intro to Computer Science**Credit:** 0.5**Grades:** 9, 10, 11**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

31000 Video Production**Credit:** 0.5**Grades:** 9, 10, 11**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.

30581 Advanced Video Production**Credit:** 0.5**Grades:** 9, 10, 11**Prerequisite:** Students must have received an "A" or "B" in Multimedia I or Video Production.**Fee:** \$35.00

This course is designed to give students a better understanding of the process of producing a short film or video. The focus of the course is the intensive study of television and film production techniques. Students enrolled in this course are expected to complete work requiring a high degree in independence and responsibility. Students will work in groups to create segments using high end technical equipment such as camcorders, microphones, and editing equipment that will be used to produce short films and video. Students may enroll in this course multiple times for credit.

30526 Tech Support**Credit:** 0.5**Grade:** 10, 11**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.

31015 Advanced Web Design**Credit:** 0.5**Grades:** 9, 10, 11**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.

31010 3D & Animation**Credit:** 0.5**Grades:** 9, 10, 11**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**Credit:** 0.5**Grades:** 9, 10, 11**Prerequisite:** Teacher recommendation & 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.

31005 Gaming**Credit:** 0.5**Grades:** 9, 10, 11**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**Prerequisite:** Gaming**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.

31040 DCTV Academy**(TITAN TV/LHS Announcements)****Credit:** 0.5**Grades:** 9, 10, 11**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 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. Students may enroll in this course multiple times for credit.

69301 CE MGD 101 Intro to Multimedia (Dual College Credit PENDING)**Semester:** 0.5**Grades:** 9, 10, 11**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.

69302 CE MGD 111 Photoshop I (Dual College Credit Pending)**Semester:** 0.5**Grades:** 9, 10, 11**Prerequisite:** None**Fee:** \$35.00

Photoshop I is an introduction to Adobe Photoshop (the Design Industry's standard pixel based design program). Learning the basics of the software, the application of those skills and compositional basics will all be addressed. You will work with Adobe software to bring your ideas to life as you explore a variety of concepts, design elements and techniques.

69303 CE MGD 112 Illustrator (Dual College Credit Pending)**Semester:** 0.5**Grades:** 9, 10, 11**Prerequisite:** None**Fee:** \$35.00

Illustrator I is an introduction to Adobe Illustrator (the Design Industry's standard vector based design program). Learning the basics of the software, the application of those skills and compositional basics will all be addressed. You will work with Adobe software to bring your ideas to life as you explore a variety of concepts, design elements and techniques