

PRIDE. CHALLENGE. ACHIEVEMENT.

CREDENTIAL YEAR 2017-18

COMPUTER GRAPHICS TECHNOLOGY

Credentials

Foundation skills Certificate	16 cr.
3D and Video Graphics Certificate	30 cr.
Graphic Arts Certificate	30 cr.
Web and Interactive Media Certificate	30 cr.
3D and Video Graphics AAS degree	61-62 cr.
Graphic Arts AAS degree	61-62 cr.
Web and Interactive Media AAS degree	61-62 cr.
Post-associate certificate	16-20 cr.

Major Description

The merger of art and computer technology is the basis of the program options available for students interested in a career in the expanding fields of graphic design and computer graphics.

Students learn how to use professional level software, hardware and peripherals, and to apply the principles of design, typography and color theory to the creation of effective print- and electronic-based visual communication. The computer graphics technology tracks prepare students for a career in the fields of 3D and video graphics, web and interactive media or digital arts, leading to either a certificate or an associate of applied science degree. Instruction in the programs expands on the skills achieved in the foundation skills certificate or equivalent experience.

The certificate programs provide students with the opportunity to expand their design and application skills for a specific career within the graphic design and computer graphics industry and learn the principles of design to create professional level visual communications and how to apply software, hardware and peripherals.

In addition to the skills and knowledge students acquire in the certificate programs, the degree programs include coursework that meets the general education requirements for a Schoolcraft associate in applied science (AAS) degree. The degree programs' capstone classes expand the students' creative and practical skills.

It is highly recommended that students meet with faculty for advice in selecting their electives. The foundation skills certificate or equivalent skills must be achieved before starting the one of the specialty track certificate or AAS programs.

National Median Salaries for Computer Graphics Technology-related positions

Graphic Designer: \$44,150

Web Page Designer: \$35,000-\$80,000

Foundation Skills Certificate

Schoolcraft program code # CRT.00364

The foundation skills certificate provides students with basic design and application skills for a career in the fields of graphic design and computer graphics. These skills are required for entry into any of the computer graphics technology certificate tracks.

All courses are not offered each semester. Students should work with an academic advisor or counselor to develop a schedule that will work for them. Students who satisfactorily complete all college and program requirements qualify for a certificate of completion.

Note: Schoolcraft has articulation agreements with some high schools and career/technical centers which allow for credits earned to be applied toward a specific Schoolcraft certificate or associate degree. In addition, students may have some non-instructional life experiences that make them eligible for credit. Students should work with an academic advisor or counselor to explore their options for transfer and work life credit.

SAMPLE SCHEDULE OF COURSES

First Year—Fall Semester

CGT 109	Design Concepts and Technology	3
CGT 123	Illustration—Illustrator	3
CGT 125	Digital Imaging 1—Photoshop	3
CGT 127	Publishing—InDesign	3
HUM 106	Introduction to Art and Music	1
Track Option	<i>Select one</i>	3
CGT 247	3D Video: 3D Animation—Introduction	
CGT 136	Web Interactive: Web Design and Development 1	
ART 120	Digital Arts: Drawing: Theory and Elements	
	Total Credits	16

PROGRAM TOTAL 16 CREDITS



It is the policy of Schoolcraft College that no person shall, on the basis of race, religion, color, gender, age, marital status, disability, sexual orientation, and/or national origin, be subjected to discrimination during or be excluded from participating in or be denied the benefits of any program or activity or in employment.



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Computer Graphics Technology Certificate Specialty Tracks

The computer graphics technology specialty tracks leading to a certificate expand on the skills achieved in the foundation skills certificate or equivalent experience. These certificates give students the opportunity to expand their design and application skills for a specific career within the graphic design and computer graphics industry. The foundation skills certificate or equivalent skills must be achieved before starting the one of the specialty track certificate programs. Classes with no prerequisite can be taken before starting the program.

Computer Graphics Technology: 3D and Video Graphics Certificate

Schoolcraft program code # 1YC.00132

This certificate prepares students for a career combining the skills of three-dimensional imaging and video production. With the industry's expansion of computer graphics imaging (CGI), these skills will allow the students to create 3D objects and composite videos with special effects and motion graphics. It creates the opportunity to develop simulations, engineering and architectural visualization for advertising and marketing projects. All courses are not offered each semester. Students should work with an academic advisor, counselor or Computer Graphics Technology (CGT) faculty to develop a schedule that will work for them. Students who satisfactorily complete the program requirements qualify for a certificate of program completion.

SAMPLE SCHEDULE OF COURSES

First Year—Fall Semester			First Year—Winter Semester		
CGT 166	Photography	3	CGT 208	Digital Video Production	3
CGT 168	Storyboarding	3	CGT 210	Visual Effects Production	3
CGT 215	Motion Graphics 1—After Effects	3	CGT 246	Motion Graphics 2—After Effects	3
CGT 226	Digital Imaging 2—Photoshop	3	CGT 252	3D Animation—Animating	3
CGT 254	3D Animation—Advanced Models and Textures	3	CGT 256	Portfolio 3D—Reel Development	3
	Total Credits	15		Total Credits	15

PROGRAM TOTAL 30 CREDITS

Computer Graphics Technology: Graphic Arts Track Certificate

Schoolcraft program code # 1YC.00136

This program teaches students how to blend traditional art techniques with skill using professional graphic design software to create illustrative, fine art and graphic media. By including instruction in color, type, image structure, production planning and marketing, the program prepares students for a wide range of jobs within the design industry. All courses are not offered each semester. Students should work with an academic advisor, counselor or CGT faculty to develop a schedule that will work for them. Students who satisfactorily complete the program requirements qualify for a certificate of program completion.

SAMPLE SCHEDULE OF COURSES

First Year—Fall Semester			First Year—Winter Semester		
ART 128	The Human Figure in Art 1: Theory and Elements	3	ART 228	The Human Figure in Art 2: Theory and Elements	3
CGT 136	Web Design and Development 1	3	CGT 149	Typography	3
CGT 161	History of Graphic Design	3	CGT 231	Electronic Publishing	3
CGT 166	Photography	3	CGT 257	Portfolio Preparation	3
CGT 226	Digital Imaging 2—Photoshop	3	Elective	BUS 103 or CGT or ART	3
	Total Credits	15		Total Credits	15

PROGRAM TOTAL 30 CREDITS

Computer Graphics Technology: Web and Interactive Media Track Certificate

Schoolcraft program code # 1YC.00131

This certificate provides students with the web development, technical programming and graphic design skills necessary to build web and multimedia sites. The focus is on developing a skill set that enables students to stay in-step with constantly evolving requirements and standards in the interactive media industry. All courses are not offered each semester. Students should work with an academic advisor, counselor or Computer Graphic Technology (CGT) faculty to develop a schedule that will work for them. Students who satisfactorily complete the program requirements qualify for a certificate of program completion.

SAMPLE SCHEDULE OF COURSES

First Year—Fall Semester			First Year—Winter Semester		
CGT 149	Typography	3	CGT 213	Advanced 2D Animation	3
CGT 161	History of Graphic Design	3	CGT 212	Advanced Interactive Media	3
CGT 163	Web Design and Development 2	3	CGT 226	Digital Imaging 2—Photoshop	3
CGT 168	Storyboarding	3	CGT 234	Web Design and Development 3	3
CGT 141	Introduction to 2D Animation and Interactive Media	3	CIS 238	Java Script	3
	Total Credits	15		Total Credits	15

PROGRAM TOTAL 30 CREDITS

Computer Graphics Technology AAS Degree

The computer graphics technology programs prepare students for a career in the fields of 3D and video graphics, web and interactive media or digital arts. As in the certificate program, students learn how to use the principles of design, typography, and color theory to create professional level visual communications and how to apply software, hardware and peripherals to meet these goals. In addition to the certificate skills, the associate degree tracks include coursework that meets the general education requirements for a Schoolcraft associate in applied science (AAS) degree. The program's capstone classes expand the students' creative and practical skills. It is highly recommended that students meet with faculty for advice in selecting their electives. The foundation skills certificates or equivalent skills must be achieved before starting the AAS degree. Classes with no prerequisite can be taken before starting the program.

Computer Graphics Technology: 3D and Video Graphics AAS Degree

Schoolcraft program code # AAS.00032

Similar to the 3D and video graphics certificate, this degree provides students for a career combining the skills of three-dimensional imaging and video production. In addition, it includes capstone courses that develop creative and practical skills beyond what is taught in the certificate program, as well as coursework that meets the general education requirements for a Schoolcraft associate in applied science (AAS) degree. The degree strengthens the student's position in the profession and gives the student an academic credential with a higher standing.

All courses are not offered each semester. Students should work with an academic advisor, counselor or CGT faculty to develop a schedule that will work for them. Students who satisfactorily complete all college and program requirements qualify for an associate in applied science degree. Students wishing to pursue a post-associate certificate must have a computer graphics technology associate degree or equivalent professional experience.

SAMPLE SCHEDULE OF COURSES

First Year—Fall Semester

First Year—Winter Semester

Mathematics	<i>Select one</i>	3-4	ENG 101	English Composition 1	3
MATH 101	Business Mathematics		COMA 103	Fundamentals of Speech	3
MATH 102	Technical Mathematics		CGT 208	Digital Video Production	3
MATH 113	Intermediate Algebra		CGT 246	Motion Graphics 2—After Effects	3
CGT 166	Photography	3	CGT 252	3D Animation—Animating	3
CGT 168	Storyboarding	3		Total Credits	15
CGT 215	Motion Graphics 1—After Effects	3			
CGT 254	3D Animation—Advanced Models and Textures	3			
	Total Credits	15-16			

Second Year—Fall Semester

Second Year—Winter Semester

ENG 102	English Composition 2	3	Social Science	<i>Select one</i>	3
Science	<i>Select one</i>	4	POLS 105	Survey of American Government	
BIOL 101	General Biology		PSYCH 153	Human Relations	
CHEM 111	General Chemistry 1		CGT 210	Visual Effects	3
PHYS 104	Introduction to Astronomy		BUS 103	Organizing a Small Business	3
CGT 158	Sound Design	3	Capstone	<i>Select one</i>	3
CGT 226	Digital Imaging 2—Photoshop	3	CGT 250	Practical Application	
CGT 244	History of Animation	3	CGT 270*	Internship	
	Total Credits	16	CGT 298*	Honors Studies	
			CGT 256	Portfolio—Reel Development	3
				Total Credits	15

PROGRAM TOTAL 61-62 CREDITS

* These classes are offered as independent learning. Contact CGT faculty.

Students planning to transfer should check the transfer institution's requirements/guides or discuss their options with a counselor or advisor.

Number of credits may vary depending on the course selection.

Computer Graphics Technology: Graphic Arts AAS Degree

Schoolcraft program code # AAS.00028

Similar to the graphic arts certificate, this program teaches students how to blend traditional art techniques with skill using professional graphic design software to create illustrative, fine art and graphic media, preparing students for a wide range of jobs within the design industry. In addition, it includes capstone courses that develop creative and practical skills beyond what is taught in the certificate program, as well as coursework that meets the general education requirements for a Schoolcraft associate in applied science (AAS) degree. The degree strengthens the student's position in the profession and gives the student an academic credential with a higher standing.

All courses are not offered each semester. Students should work with an academic advisor, counselor or Computer Graphics Technology (CGT) faculty to develop a schedule that will work for them. Students who satisfactorily complete all college and program requirements qualify for an associate in applied science degree. Students wishing to pursue a post-associate certificate must have a computer graphics technology associate degree or equivalent professional experience.

SAMPLE SCHEDULE OF COURSES

First Year—Fall Semester

First Year—Winter Semester

ENG 101	English Composition 1	3	ENG 102	English Composition 2	3
Mathematics	<i>Select one</i>	3-4	BUS 122	Advertising	3
MATH 101	Business Mathematics		ART 228	The Human Figure in Art 2: Theory and Elements	3
MATH 102	Technical Mathematics		CGT 166	Photography	3
MATH 113	Intermediate Algebra		CGT 226	Digital Imaging 2—Photoshop	3
ART 128	The Human Figure in Art 1: Theory and Elements	3		Total Credits	15
CGT 136	Web Design and Development 1	3			
CGT 161	History of Graphic Design	3			
	Total Credits	15-16			

Second Year—Fall Semester

Second Year—Winter Semester

Science	<i>Select one</i>	4	Social Science	<i>Select one</i>	3
BIOL 101	General Biology		POLS 105	Survey of American Government	
CHEM 111	General Chemistry 1		PSYCH 153	Human Relations	
PHYS 104	Introduction to Astronomy		CGT 231	Electronic Publishing	3
COMA 103	Fundamentals of Speech	3	BUS 103	Organizing a Small Business	
Elective	<i>Select one</i>	3	Capstone	<i>Select one</i>	3
ART 246	Sculpture 1: Theory and Elements		CGT 250	Practical Application	
WELD 112	Contemporary Metal Sculpture		CGT 270*	Internship	
Elective	<i>Select one</i>	3	CGT 298*	Honors Studies	
	Any ART or CGT course		CGT 256	Portfolio Preparation	3
CGT 149	Typography	3		Total Credits	15
	Total Credits	16			

PROGRAM TOTAL 61-62 CREDITS

* These classes are offered as independent learning. Contact CGT faculty.

Students planning to transfer should check the transfer institution's requirements/guides or discuss their options with a counselor or advisor.

Number of credits may vary depending on the course selection.

Computer Graphics Technology: Web and Interactive Media AAS Degree

Schoolcraft program code # AAS.00031

Similar to the graphic arts certificate, this program teaches students how to blend traditional art techniques with skill using professional graphic design software to create illustrative, fine art and graphic media, preparing students for a wide range of jobs within the design industry. In addition, it includes capstone courses that develop creative and practical skills beyond what is taught in the certificate program, as well as coursework that meets the general education requirements for a Schoolcraft associate in applied science (AAS) degree. The degree strengthens the student's position in the profession and gives the student an academic credential with a higher standing.

All courses are not offered each semester. Students should work with an academic advisor, counselor or Computer Graphics Technology (CGT) faculty to develop a schedule that will work for them. Students who satisfactorily complete all college and program requirements qualify for an associate in applied science degree. Students wishing to pursue a post-associate certificate must have a computer graphics technology associate degree or equivalent professional experience.

SAMPLE SCHEDULE OF COURSES

First Year—Fall Semester

First Year—Winter Semester

ENG 101	English Composition 1	3	ENG 102	English Composition 2	3
Mathematics	<i>Select one</i>	3-4	CGT 213	Advanced 2D Animation	3
MATH 101	Business Mathematics		CGT 161	History of Graphic Design	3
MATH 102	Technical Mathematics		CGT 168	Storyboarding	3
MATH 113	Intermediate Algebra		CGT 212	Advanced Interactive Media	3
CGT 163	Web Design and Development 2	3		Total Credits	15
CGT 149	Typography	3			
CGT 141	Introduction to 2D Animation and Interactive Media	3			
	Total Credits	15-16			

Second Year—Fall Semester

Second Year—Winter Semester

Science	<i>Select one</i>	4	Social Science	<i>Select one</i>	3
BIOL 101	General Biology		POLS 105	Survey of American Government	
CHEM 111	General Chemistry 1		PSYCH 153	Human Relations	
PHYS 104	Introduction to Astronomy		CIS 238	Java Script	3
COMA 103	Fundamentals of Speech	3	BUS 103	Organizing a Small Business	3
CGT 234	Web Design and Development 3	3	Capstone	<i>Select one</i>	3
CGT 226	Digital Imaging 2—Photoshop	3	CGT 250	Practical Application	
BUS 122	Advertising	3	CGT 270*	Internship	
	Total Credits	16	CGT 298*	Honors Studies	
			CGT 257	Portfolio Preparation	3
				Total Credits	15

PROGRAM TOTAL 61-62 CREDITS

* These classes are offered as independent learning. Contact CGT faculty.

Students planning to transfer should check the transfer institution's requirements/guides or discuss their options with a counselor or advisor. Number of credits may vary depending on the course selection.

Computer Graphics Technology Post-Associate Certificate

Schoolcraft program code # PAC.00181

The post-associate certificate is for those students who have a degree in computer graphics and/or are working in the profession and wish to add an additional area of specialty to their portfolio. Students should take a combination of six courses based on the specific area of study. It is highly recommended that Computer Graphics Technology (CGT) faculty be consulted when selecting courses. Students can assemble courses to develop expertise in 3D animation, video graphics, web design, interactive media, publishing or graphic design. Prerequisite and co-requisite requirements must be honored.

All courses are not offered each semester. Students should work with an academic advisor or counselor to develop a schedule that will work for them. The post-associate certificate is awarded upon successful completion of 16 credits (exact number may vary slightly due to credit value of course.)

Computer Graphics Technology Post-Associate Certificate (continued)

ART 115	Art History 1	4	CGT 210	Visual Effects Production	3
ART 116	Art History 2	4	CGT 212	Advanced Interactive Media	3
ART 120	Drawing: Theory and Elements	3	CGT 213	Advanced 2D Animation	3
ART 128	The Human Figure in Art 1: Theory and Elements	3	CGT 215	Motion Graphics 1—After Effects	3
ART 246	Sculpture 1: Theory and Elements	3	CGT 226	Digital Imaging 2—Photoshop	3
CGT 136	Web Design and Development 1	3	CGT 231	Electronic Publishing	3
CGT 141	Introduction to 2D Animation and Interactive Media	3	CGT 234	Web Design and Development 3	3
CGT 149	Typography	3	CGT 244	History of Animation	3
CGT 158	Sound Design	3	CGT 246	Motion Graphics 2—After Effects	3
CGT 163	Web Design and Development 2	3	CGT 247	3D Animation—Introduction	3
CGT 166	Photography	3	CGT 252	3D Animation—Animating	3
CGT 168	Storyboarding	3	CGT 254	3D Animation—Advanced Models and Textures	3
CGT 208	Digital Video Production	3	WELD 112	Contemporary Metal Sculpture	3

PROGRAM TOTAL 61-62 CREDITS