COMPUTER GRAPHICS TECHNOLOGY

Credentials

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Foundation skills certificate	18 cr.
3D Animation certificate	33 cr.
Digital Art certificate	28 cr.
Interactive Media and Game Design certificate	29 cr.
Publishing certificate	29–30 cr.
Video Graphics certificate	30 cr.
Web Design certificate	30 cr.
3D and Video Graphics AAS degree	65 cr.
Digital Art AAS degree	60 cr.
Graphic Design AAS degree	61–62 cr.
Interactive Media and Game Design AAS degree	61 cr.
Post-associate certificate	16–20 cr.

Major Description

If the prospect of a career that blends art and technology appeals to you, we have four options that will prepare you for work in the high-tech, high-style field of digital graphic design.

In each program you'll 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 visual communication.

We have four options that can take you from novice to knowledgeable:

- Our foundation skills certificate will introduce you to the basics of art and design along with the latest graphics software.
- Our certificate programs allow you to select a specialty and focus on animation, digital art, video graphics, publishing, Web design, or interactive media and game design.
- Our associate in applied science degree—offered in 3D and video graphics, digital art, graphic design, and interactive media and game design—features three capstone courses for synthesizing what you've learned: a portfolio class, an internship working with area businesses, or an honors-level project.
- Already earned a degree but hungry for more? Our postassociate certificate program allows you to develop a computer graphics specialty while updating your knowledge of the newest techniques and technologies.

Job Titles & Median Salaries or Hourly Rates

- Graphic Designer: \$43,500 (national)
- Web Page Designer: \$55,068 (Michigan)

Computer Graphics Technology: Graphic Design AAS Degree

The computer graphics technology programs prepare students for a career in the 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. It is highly recommended that students meet with faculty for advice in selecting their electives.

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 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

CGT 109	Design Concepts and Technology3
CGT 123	Illustration—Illustrator
CGT 125	Digital Imaging 1—Photoshop3
ENG 101	English Composition 13
CGT 136	Web Design and Development 1

Total Credits 15

First Year—Winter Semester

MATH 113	Intermediate Algebra for College Students4
CGT 127	Publishing—InDesign
CGT 163	Web Design and Development 2
ENG 102	English Composition 2
COMA 103	Fundamentals of Speech

Total Credits 16

Second Year—Fall Semester	
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History of Graphic Design
Select 1
CGT 149 Typography
CGT 211 Flash
Select 1 2-3
CGT 166 Photography
CGT 157 Prepress
CGT 234 Web Design and Development 3
Digital Imaging 2—Photoshop3
Advertising3

Total Credits 14–15

Second Year—Winter Semester

CGT 257	Portfolio Preparation
Track Option	Select 1
Publishing Track:	CGT 231 Electronic Publishing
Web Track:	CGT 237 Dynamic Web Design With ColdFusion
Science	Select 14
BIOL 101	General Biology
CHEM 111	General Chemistry 1
PHYS 104	Introduction to Astronomy
Social Science	Select 1
POLS 105	Survey of American Government
PSYCH 153	Human Relations
Capstone	Select 1
CGT 250	Practical Application
CGT 270*	Internship
CGT 298*	Honors Studies

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 Design Certificate

The technology of the Internet is constantly evolving both in terms of delivery infrastructure and website development tools. To stay abreast of these technological advances requires programming and design knowledge, skills and experience. A good site must include both quality visual communication design and functionality. Programming is needed for interactivity to search databases and track usage. Visual graphic design is needed to convey the content message and provide branding for products and services.

This certificate is designed to provide students with an overview of the technical programming and graphic design areas for web page development.

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 the program requirements qualify for a certificate of program completion.

SAMPLE SCHEDULE OF COURSES

First Year—Fall Semester

CGT 109	Design Concepts and Technology
CGT 123	Illustration—Illustrator
CGT 125	Digital Imaging 1—Photoshop3
CGT 136	Web Design and Development 1

Total Credits 12

First Year—Winter Semester

CGT 127	Publishing—InDesign	3
CGT 161	History of Graphic Design	
CGT 163	Web Design and Development 2	
CGT 211	Flash	3
	Total Cre	dits 12

Second Year—Fall Semester		
CGT 234	Web Design and Development 33	

Second Year—Winter Semester

CGT 237	Dynamic Web Design With ColdFusion	3
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Total Credits 3

Total Credits 3

PROGRAM TOTAL 30 CREDITS

Computer Graphics Technology: Publishing Certificate

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
CGT 149	Typography	

Total Credits 15

First Year—Winter Semester

CGT 161	History of Graphic Design
CGT 136	Web Design and Development 1
CGT 166 or	Photography3
CGT 157	Prepress2
CGT 226	Digital Imaging 2—Photoshop3
CGT 231	Electronic Publishing

Total Credits 14–15

PROGRAM TOTAL 29-30 CREDITS

Computer Graphics Technology Foundation Skills Certificate

SAMPLE SCHEDULE OF COURSES

First Year—Fall Semester

CGT 109	Design Concepts and Technology
CGT 123	Illustration—Illustrator
CGT 125	Digital Imaging 1—Photoshop3
CGT 127	Publishing—InDesign3
CGT 161 or	History of Graphic Design3
CGT 244	History of Animation3
CGT Elective	

PROGRAM TOTAL 18 CREDITS

Computer Graphics Technology Post-Associate Certificate

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 6 courses based on the specific area of study. It is highly recommended that CGT faculty be consulted when selecting courses. Students can assemble courses to develop expertise in interactive media and game design, digital art, web design, publishing, video graphics, graphic design, or 3D animation.

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ART 105	Basic Drawing
ART 115	Art History 14
ART 116	Art History 24
ART 125	Life Drawing 1
ART 243	Sculpture 1
CGT 136	Web Design and Development 1
CGT 141	Introduction to Interactive Media and
	Game Design
CGT 149	Typography
CGT 154	Sound Editing for Graphic Artists2
CGT 157	Prepress2
CGT 163	Web Design and Development 2
CGT 166	Photography
CGT 168	Storyboarding
CGT 206	Scripting for Interactive Media and
	Game Design
CGT 208	Digital Video Production
CGT 210	Visual Effects Production3
CGT 211	Flash
CGT 212	Flash Action Scripting3
CGT 215	Motion Graphics 1—After Effects3
CGT 226	Digital Imaging 2—Photoshop3
CGT 231	Electronic Publishing
CGT 234	Web Design and Development 33
CGT 237	Dynamic Web Design With ColdFusion3
CGT 242	Advanced Interactive Media and Game Design3
CGT 244	History of Animation
CGT 246	Motion Graphics 2—After Effects
CGT 247	3D Animation—Introduction
CGT 252	3D Animation—Animating3
CGT 254	3D Animation—Advanced Models
	and Textures

PROGRAM TOTAL 16–20 CREDITS

Computer Graphics Technology: Digital Art AAS Degree

SAMPLE SCHEDULE OF COURSES

First Year—Fall Semester

CGT 109	Design Concepts and Technology3
ART 105	Basic Drawing
CGT 125	Digital Imaging 1—Photoshop3
ENG 101	English Composition 1
MATH 113	Intermediate Algebra for College Students4
	Total Credits 16

First Year—Winter Semester

CGT 123	Illustration—Illustrator
CGT 127	Publishing—InDesign3
Science	Select 1
BIOL 101	General Biology
CHEM 111	General Chemistry 1
PHYS 104	Introduction to Astronomy
ART 125	Life Drawing 1

Total Credits 13

Second Year	—Fall Semester
CGT 226	Digital Imaging 2—Photoshop3
ENG 102	English Composition 23
ART 205	Life Drawing 2
Art	Select 14
ART 115	Art History 1
ART 116	Art History 2
COMA 103	Fundamentals of Speech

Total Credits 16

Second Year—Winter Semester

ART 243	Sculpture 13
or	-
WELD 112	Contemporary Metal Sculpture 13
Social Science	Select 1
POLS 105	Survey of American Government
PSYCH 153	Human Relations
CGT 257	Portfolio Preparation
Capstone	Select 1
CGT 250	Practical Application
CGT 270*	Internship
CGT 298*	Honors Studies
Elective	Any ART or CGT course not previously taken 3
	Total Credits 15

PROGRAM TOTAL 60 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: Digital Art Certificate

SAMPLE SCHEDULE OF COURSES

First Year—Fall Semester

CGT 109	Design Concepts and Technology3
ART 105	Basic Drawing
CGT 123	Illustration—Illustrator
CGT 125	Digital Imaging 1—Photoshop3

Total Credits 12

First Year—Winter Semester		
CGT 127	Publishing—InDesign	.3
ART 115 or	Art History 1	.4
ART 116	Art History 2	.4
CGT 226	Digital Imaging 2—Photoshop	.3
ART 125	Life Drawing 1	.3
ART 243 or	Sculpture 1	.3
WELD 112	Contemporary Metal Sculpture 1	.3

Total Credits 16 PROGRAM TOTAL 28 CREDITS

Computer Graphics Technology: 3D and Video Graphics AAS Degree

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 166	Photography	3
ENG 101	English Composition 1	3

Total Credits 15

First Year—Winter Semester

Storyboarding	3
History of Animation	
3D Animation—Introduction	3
English Composition 2	3
Intermediate Algebra for College Students	
	3D Animation—Introduction English Composition 2

Total Credits 16

First Year—Spring Session

COMA 103 Fundamentals of Speech	3
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Total Credits 3

Second Year—Fall Semester

CGT 208	Digital Video Production
CGT 215	Motion Graphics 1—After Effects
Track Option	Select 1
3D Track:	CGT 254 3D Animation—Advanced Models
	and Textures
Video Track:	CGT 226 Digital Imaging 2—Photoshop
Science	Select 1
BIOL 101	General Biology
CHEM 111	General Chemistry 1
PHYS 104	Introduction to Astronomy
BUS 122	Advertising
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Total Credits 16

Second Year—Winter Semester

Track OptionSelect 13D Track:CGT 252 3D Animation—Animating	
3D Track: CGT 252 3D Animation—Animating	
Video Track: CGT 210 Visual Effects Production	
Capstone Select 1	
CGT 250 Practical Application	
CGT 270* Internship	
CGT 298* Honors Studies	
Social Science Select 1	
POLS 105 Survey of American Government	
PSYCH 153 Human Relations	
CGT 256 Portfolio—3D Reel Development3	

Total Credits 15

PROGRAM TOTAL 65 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: Video Graphics Certificate

SAMPLE SCHEDULE OF COURSES

First Year—Fall Semester

CGT 109	Design Concepts and Technology
CGT 123	Illustration—Illustrator
CGT 125	Digital Imaging 1—Photoshop3
CGT 166	Photography3

Total Credits 12

First Year—Winter Semester

CGT 168	Storyboarding3
CGT 208	Digital Video Production
CGT 215	Motion Graphics 1—After Effects
CGT 247	3D Animation—Introduction3

Total Credits 12

Second Year—Fall Semester

CGT 210	Visual Effects Production
CGT 246	Motion Graphics 2—After Effects

Total Credits 6

PROGRAM TOTAL 30 CREDITS

Computer Graphics Technology— 3D Animation Certificate

SAMPLE SCHEDULE OF COURSES

First Year—Fall Semester

CGT 109	Design Concepts and Technology3
CGT 123	Illustration—Illustrator
CGT 125	Digital Imaging 1—Photoshop3
CGT 166	Photography

Total Credits 12

First Year—Winter Semester

CGT 168	Storyboarding
CGT 244	History of Animation
CGT 247	3D Animation—Introduction
CGT 215	Motion Graphics 1—After Effects3

Total Credits 12

First Year—Spring Session

CGT 254 3D Animation—Advanced Models and Textures ... 3

Total Credits 3

Second Year—Fall Semester

CGT 246	Motion Graphics 2—After Effects
CGT 252	3D Animation—Animating3

Total Credits 6

PROGRAM TOTAL 33 CREDITS

Computer Graphics Technology: Interactive Media and Game Design AAS Degree

SAMPLE SCHEDULE OF COURSES

First Year—Fall Semester

CGT 109	Design Concepts and Technology3
CGT 123	Illustration—Illustrator
CGT 125	Digital Imaging 1—Photoshop3
CGT 166	Photography
ENG 101	English Composition 13

Total Credits 15

First Year—Winter Semester

CGT 149	Typography	3
CGT 168	Storyboarding	
CGT 244	History of Animation	
Track Option	Select 1	3
Director Track:	CGT 141 Introduction to Interactive Media	
	and Game Design	
Flash Track:	CGT 211 Flash	
ENG 102	English Composition 2	3

Total Credits 15

Second Year—Fall Semester

CGT 154	Sound Editing for Graphic Artists	2
Track Option	Select 1	3
Director Track:	CGT 206 Scripting for Interactive Media	
	and Game Design	
Flash Track:	CGT 212 Flash Action Scripting	
COMA 103	Fundamentals of Speech	3
Science	Select 1	4
BIOL 101	General Biology	
CHEM 111	General Chemistry 1	
PHYS 104	Introduction to Astronomy	
BUS 122	Advertising	3
	Total Crodi	4. 15

Total Credits 15

Second Year—Winter Semester

CGT 242	Advanced Interactive Media and
	Game Design3
CGT 256	Portfolio—3D Reel Development
Capstone	Select 1
CGT 250	Practical Application
CGT 270*	Internship
CGT 298*	Honors Studies
Social Science	Select 1
	PSYCH 153 Human Relations
	POLS 105 Survey of American Government
MATH 113	Intermediate Algebra for College Students4
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Total Credits 16

PROGRAM TOTAL 61 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: Interactive Media and Game Design Certificate

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
Track Option	Select 1	3
Director Track:	CGT 141 Introduction to Interactive Media	
	and Game Design	
Flash Track:	CGT 211 Flash	
CGT 166	Photography	3

Total Credits 15

First Year—Winter Semester

CGT 149	Typography	3
CGT 168	Storyboarding	3
Track Option	Select 1	3
Director Track:	CGT 206 Scripting for Interactive Media	
	and Game Design	
Flash Track:	CGT 212 Flash Action Scripting	
CGT 154	Sound Editing for Graphic Artists	2

Total Credits 11

First Year—Spring Session

CGT 242	Advanced Interactive Media and
	Game Design

Total Credits 3

PROGRAM TOTAL 29 CREDITS