

# Computer Graphics and Visualization AS DEGREE

## Program Overview

This program prepares students for jobs in the exciting computer graphics and animation field. Students will learn how to take an idea from concept through production including computer graphics, computer animation, sound and video.

Computer Graphics Specialists can work in a wide variety of creative jobs including web design, film and animation production, CD ROM production and any organization that can benefit from these special talents. With more and more animation moving to the desktop, the computer graphics specialist is becoming a high demand career.

The student should be creative and have excellent communication skills. Students should exhibit qualities of patience, and preciseness, and should enjoy working independently and on team projects.

## Career Opportunities

The computer graphics field relates to many jobs in the multimedia area including but not limited to:

- Web Designer
- Computer Animator
- Computer Game Designer and Developer
- Multimedia Developer

## Program Outcomes

1. Graduates will design multiple visual graphic projects using industry standard software in both print and web formats.
2. Graduates will develop multiple websites using various HTML tools for both standard and mobile platforms.
3. Graduates will demonstrate fundamental animation techniques in both 2D and 3D environments.

## Transfer Opportunities

Saint Paul College has a transfer articulation agreement between the following program and post-secondary institution for the baccalaureate degree program listed below.

For more information please go to [saintpaul.edu/Transfer](http://saintpaul.edu/Transfer).

### Computer Graphics and Visualization AS

- BA Individualized Studies  
Metropolitan State University
- BS Information Technology  
Saint Mary's University,  
Twin Cities Campus

## Program Faculty

Darren Pearson  
[darren.pearson@saintpaul.edu](mailto:darren.pearson@saintpaul.edu)

### Recommended Equipment

Digital Camera, USB Drive, Adobe Software

### Estimated Book Cost

\$50 - \$75 per class

## Program Requirements

Check off when completed

Course	Cr
<input type="checkbox"/> CSCI 1450 Web Fundamentals/HTML	4
<input type="checkbox"/> DGIM 1400 Introduction to Computer Graphics	4
<input type="checkbox"/> DGIM 1443 Graphical Web Design 1	2
<input type="checkbox"/> DGIM 1448 Adobe Animate 1	2
<input type="checkbox"/> DGIM 1480 InDesign	2
<input type="checkbox"/> DGIM 1483 Photoshop 1	2
<input type="checkbox"/> DGIM 1484 Photoshop 2	2
<input type="checkbox"/> DGIM 1540 Blogging Applications	2
<input type="checkbox"/> DGIM 2586 Digital Sound	2
<input type="checkbox"/> DGIM 2587 Digital Video 1	2
<input type="checkbox"/> Technical Electives	6
Any 6 credits in DGIM or CSCI	
<b>Subtotal</b>	<b>30</b>

### General Education/MnTC Requirements

Students must select courses from at least six (6) different Goal Areas of the MnTC.

Refer to the Minnesota Transfer Curriculum Course List for each Goal Area

<input type="checkbox"/> Goal 1: Communication	7
ENGL 1711 Composition 1 – 4 cr	
COMM 17XX – 3 cr	
<input type="checkbox"/> Goal 4: Mathematical/Logical Reasoning	3
<input type="checkbox"/> Goal 5: History, Social Science and Behavioral Sciences	4
<input type="checkbox"/> Goal 6: Humanities and Fine Arts	7
ARTS 1713 Photography 1 – 3 cr (recommended)	
<input type="checkbox"/> Goals 1-10 of the Minnesota Transfer Curriculum	9
Select a minimum of 9 additional credits	
<b>General Education Requirements</b>	<b>30</b>

**Total Program Credits . . . . . 60**

## Program Start Dates

Fall, Spring, Summer

## Course Sequence

The following sequence is recommended for a full-time student; however, this sequence is not required. Contact the Program Faculty with questions.

### First Semester

CSCI 1450 Web Fundamentals/HTML	4
DGIM 1400 Introduction to Computer Graphics	4
DGIM 1443 Graphical Web Design 1	2
Goal 1: ENGL 1711 Composition I	4
Goal 1: COMM 17XX	3
<b>Total Semester Credits</b>	<b>17</b>

### Second Semester

DGIM 1448 Adobe Animate 1	2
DGIM 1483 Photoshop 1	2
DGIM 1540 Blogging Applications (spring only)	2
Goal 5: History, Social Science and Behavioral Sciences	4
Goal 6: Humanities and Fine Arts	3
<b>Total Semester Credits</b>	<b>13</b>

### Third Semester

DGIM 1480 InDesign	2
DGIM 1484 Photoshop 2	2
DGIM 2586 Digital Sound	2
Goal 4: Mathematical/Logical Reasoning	3
Goal 6: Humanities and Fine Arts	4
Technical Electives	2
<b>Total Semester Credits</b>	<b>15</b>

### Fourth Semester

DGIM 2587 Digital Video 1	2
MnTC Electives	9
Technical Electives	4
<b>Total Semester Credits</b>	<b>15</b>

**Total Program Credits . . . . . 60**

### Minimum Program Entry Requirements

Students entering this program must meet the following minimum program entry requirements:

**Reading:** Score of 250+ or grade of "C" or better in READ 0722

**Writing:** Score of 250+ on Reading Comprehension or grade of "C" or better in ENGL 0922

**Quant. Reasoning, Algebra & Stats:** Score of 270+ or **Adv. Algebra & Functions:** Score of 250+ or grade of "C" or better in MATH 0920

### Assessment Results and Prerequisites:

Students admitted into Saint Paul College programs may need to complete additional courses based on assessment results and course prerequisite requirements. Certain MATH, READ, and ENGL courses have additional prerequisites.

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*Information is subject to change.  
This Program Requirements Guide is not a contract.*