Program Requirements Guide 2020 - 2021

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.

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

Recommended Equipment
Digital Camera, USB Drive, Adobe Software

Estimated Book Cost
$50 - $75 per class

Program Requirements
☐ Check off when completed

Course
Cr
☐ DGIM 1400 Introduction to Computer Graphics ... 4
☐ DGIM 1443 Graphical Web Design 1 .............. 2
☐ DGIM 1448 Adobe Anime 1 ....................... 2
☐ DGIM 1480 InDesign .......................... 2
☐ DGIM 1483 Photoshop 1 ....................... 2
☐ DGIM 1484 Photoshop 2 ....................... 2
☐ DGIM 1540 Blogging Applications ............... 2
☐ DGIM 2586 Digital Sound ....................... 2
☐ DGIM 2587 Digital Video 1 ..................... 2
☐ Technical Electives ............................ 6

Any 6 credits in DGIM or CSCI
Subtotal ......................................... 30

General Education/MnTC Requirements  Cr
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

☐ Goal 1: Communication .......................... 7
☐ Goal 4: Mathematical/Logical Reasoning ....... 3
☐ Goal 5: History, Social Science and Behavioral Sciences .................. 4
☐ Goal 6: Humanities and Fine Arts ............. 7
☐ Gun 1-10 of the Minnesota Transfer Curriculum .................................... 9
Select a minimum of 9 additional credits

General Education Requirements ................ 30

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

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
DGIM 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
Total Semester Credits .......................... 17

Second Semester
DGIM 1448 Adobe Anime 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
Total Semester Credits .......................... 13

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
Total Semester Credits .......................... 15

Fourth Semester
DGIM 2587 Digital Video 1 ..................... 2
MnTC Electives ............................... 9
Technical Electives ............................ 4
Total Semester Credits .......................... 15

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

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

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.