

**DEPARTMENT OF INDUSTRIAL & ENGINEERING TECHNOLOGY
ASSOCIATE OF APPLIED SCIENCE
COMPUTER TECHNOLOGY
TECHNICAL COMPUTER GRAPHICS OPTION**

The Technical Computer Graphics option is designed to provide you with a background in the technical communication industry. The program provides a full background in 2-D and 3-D design, including webpage design, video editing, multimedia, animation, graphic design, and photography. Upon completing this option, students may easily transition to a Bachelor of Science Degree Technology Management Major with a Computer and Multimedia Graphics option.

CURRICULUM CHECKLIST

COMPUTER TECHNOLOGY CORE (37 Hours)

___CH 181/081/001 Basic Principles of Chemistry	5
___EN 100 English Composition OR EN 140 Rhetoric & Critical Thinking	3
___IM 102 Technical Communication	3
___IM 301 Industrial Safety	3
___IM 419 Industrial Safety	3
___MA 134 College Algebra	3
___MA 133 Plane Trigonometry	3
___MN 260 Technical Computer Programming Applications	3
___PH 106/006 Physical Concepts	3
___PS 103 U. S. Political Systems	3
___SC 105 Fundamentals of Oral Communication	3

TECHNICAL COMPUTER GRAPHICS OPTION (33Hours)

___GM 180 Introduction to Technical Graphics	3
___GM 200 Vector and Bitmapped Graphics for Industry	3
___GM 282 Vector Graphics	3
___GM 320 Graphic User Interface Design	3
___GM 326 Interactive Multimedia	3
___GM 380 3D Modeling and Animation Production	3
___GM 385 HD Video for Multimedia	3
___GM 386 Interactive Multimedia and Animation	3
___GM 490 Advanced Graphics Projects	3
___PG 284 Photography Fundamentals	3
___PG 285 Commercial Photographic Lighting	3
___TN 255 Microcomputer Maintenance & Troubleshooting OR TN 275 Network Fundamentals	3

EXAMPLE PROGRAM OF STUDY
AAS in Computer Technology/Technical Computer Graphics

FRESHMAN FALL SEMESTER (15 hrs)

EN 100 English Comp or EN140
MA 133 Plane Trigonometry
MA 134 College Algebra
GM 180 Introduction to Technical Graphics
GM 200 Vector & Bitmapped Graphics for Ind.

FRESHMAN SPRING SEMESTER (15 hrs)

IM 102 Technical Communication
PH 106/006 Physical Concepts
MN 260 Technical Computer Programming Applications
GM 282 Vector Graphics
PG 284 Photography Fundamentals

SOPHOMORE FALL SEMESTER (14 hrs)

CH 181/081/001 Basic Principles of Chemistry
GM 320 Graphic User Interface Design
GM 385 HD Video for Multimedia
TN 255 Microcomputer Maintenance &
Troubleshooting **OR** TN275 Network
Fundamentals

SOPHOMORE SPRING SEMESTER (15 hrs)

PG 285 Commercial Photography
GM 380 3D Modeling & Animation
GM 386 Interactive Multimedia and Animation
GM 490 Advanced Graphics Project
IM 301 Industrial Safety Supervision

JUNIOR FALL SEMESTER (12 hrs)

IM 419 Industrial Supervision
GM 326 Interactive Multimedia
PS 103 U.S. Political Systems
SC 105 Fund. Of Oral Communications

71 hours

Notes:

- If you need to take developmental courses, the length of time needed to complete the degree will likely increase.
- This proposed rotation is suggested. You will need to meet with your advisor every semester for advising and discussions about your progress and plans.
- Course prerequisites and rotations can change. Even if you fall under an older option of a major, changes in prerequisites apply to all students. For current prerequisites and course rotation, check with the Department of Industrial and Engineering Technology or the Polytechnic Studies Advising Center.
- For course descriptions, see the latest undergraduate bulletin OR www.semo.edu/bulletin