DEPARTMENT OF INDUSTRIAL & ENGINEERING TECHNOLOGY
ASSOCIATE OF APPLIED SCIENCE
COMPUTER TECHNOLOGY MAJOR
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 Industrial Technology and 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 133 Plane Trigonometry	3
___MA 134 College Algebra	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 Industrial Graphics	3
___GM 200 Vector and Bitmapped Graphics for Industry	3
___GM 282 Vector and Text Graphics	3
___GM 284 Photography Fundamentals	3
___GM 285 Commercial Photographic Lighting	3
___GM 320 Graphics and Interface Design for Internet	3
___GM 380 3D Product Modeling and Animation Production	3
___GM 385 Non-Linear Video Editing	3
___GM 386 Interactive Multimedia and Animation	3
___GM 490 Advanced Graphics Projects	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 Industrial 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 Electronic Publishing and Print Processes
GM284 Photography Fundamentals

SOPHOMORE FALL SEMESTER (14 hrs)
IM301 Industrial Safety Supervision
CH181/081/001 Basic Principles of Chemistry
GM385 Non-Linear Video Editing
TN 255 Microcomputer Maintenance & Troubleshooting **OR** TN275 Network Fundamentals

SOPHOMORE SPRING SEMESTER (12 hrs)
GM285 Commercial Photography
GM380 3D Product Modeling & Animation
GM386 Interactive Multimedia and Animation
GM490 Advanced Graphics Project

JUNIOR FALL SEMESTER (12 hrs)
PS103 U.S. Political Systems
GM320 Electronic and Internet Publishing
IM419 Industrial Supervison
SC105 Fund. Of Oral Communications

68 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