

**DEPARTMENT OF INDUSTRIAL & ENGINEERING TECHNOLOGY
BACHELOR OF SCIENCE
INDUSTRIAL TECHNOLOGY MAJOR
COMPUTER AND MULTIMEDIA GRAPHICS OPTION**

Students who choose the B.S. in Industrial Technology with the Computer and Multimedia Graphics option are given a background in the technical communications industry. They will get the basics of publications design and layout, graphics production, webpage design, video editing, multimedia, animation and photography. With the widespread increase in applications of computers and software, industries require Computer and Multimedia Graphics professionals to handle a wide range of tasks. Graduates are prepared for management and technical oriented positions in the Computer and Multimedia Graphics areas of industry.

CURRICULUM CHECKLIST

UNIVERSITY STUDIES (51 hours)

___ UI 100 First Year Seminar	3
___ GM 284 Photography Fundamental	3
___ Literary Expression	3
___ Oral Expression	3
___ EN 100 English Composition	3
___ Written Expression	3
___ Behavioral Systems	3
___ Living Systems	3
___ MA 134 College Algebra (Logical Systems)	3
___ PH 106/006 Physical Concepts (Physical Systems)	3
___ Development of a Major Civilization	3
___ MN 220 Engineering Economic Analysis (Economic Systems)	3
___ Political Systems	3
___ SW 207 Understanding Cultural and Social Diversity (Social Systems)	3
___ UI 3xx Interdisciplinary University Studies Course (UI319 recommended)	3
___ UI 3xx Interdisciplinary University Studies Course	3
___ UI 410 Manufacturing Research in a Global Society- University Studies Senior Seminar	3
___ WP 003 Writing Proficiency Test (to be taken after completing 75 hours)	0
___ CCTST Critical Thinking Test (to be taken after completing 75 hours)	0
___ CL001 ___CL002 ___CL003 ___CL004 Career Linkages Requirements	0

INDUSTRIAL TECHNOLOGY CORE

(26 Hours, not counting 15 hours included in University Studies section)

___ CH 181/081/001 Basic Principles of Chemistry	5
___ IM 102 Technical Communication	3
___ IM 301 Industrial Safety Supervision	3
___ IM 311 Statistical Process Control	3
___ IM 419 Industrial Supervision	3
___ IM 506 Projects in IET	3
___ MA 133 Plane Trigonometry	3
___ MN 260 Technical Computer Programming Applications	3

IT required courses included in University Studies section above: MA134, MN220, PH106, SW207, and UI410

COMPUTER AND MULTIMEDIA GRAPHICS OPTION (45 Hours)

Required:

___ GM 180 Introduction to Industrial Graphics	3
___ GM 200 Vector and Bitmapped Graphics for Industry	3
___ GM 282 Electronic Publishing and Print Processes	3
___ GM 285 Commercial Photographic Lighting	3
___ GM 286 Commercial Studio Photography	3
___ GM 320 Electronic & Internet Publishing	3
___ GM 326 Advanced Internet Production	3
___ GM 380 3D Product Modeling & Animation	3
___ GM 384 Commercial Photography	3
___ GM 385 Non-Linear Video Editing	3
___ GM 386 Interactive Multimedia and Animation	3
___ GM 480 Advanced Industrial Animation	3
___ GM 490 Advanced Graphics Projects	3
___ TN 275 Network Fundamentals	3

EXAMPLE PROGRAM OF STUDY

BS - Industrial Technology major - Computer and Multimedia Graphics option

FRESHMAN FALL SEMESTER (15 hrs)

EN 100 English Comp
GM 180 Introduction to Industrial Graphics
IM 102 Technical Communication
MA 134 College Algebra
UI 100 First Year Seminar
CL001 Career Linkages 1st Requirement

FRESHMAN SPRING SEMESTER (15 hrs)

MA 133 Plane Trigonometry
GM 200 Vector & Bitmapped Graphics for Indus.
IM 301 Industrial Safety
Behavioral Systems
Written Expression
CL002 Career Linkages 2nd Requirement

SOPHOMORE FALL SEMESTER (15 hrs)

GM 282 Electronic Publ. & Print Processes
GM 284 Photography Fundamentals (Artistic Expression)
PH 106/006 Physical Concepts
TN 275 Network Fundamentals
Oral Expression

SOPHOMORE SPRING SEMESTER (17 hrs)

CH 181 Basic Principles of Chemistry
GM 285 Commercial Photographic Lighting
GM 380 3D Product Modeling & Animation
MN 260 Technical Computer Programming Applications
SW 207 Understanding Cult. & Soc. Diversity (Social Systems)

JUNIOR FALL SEMESTER (15 hrs)

GM 286 Commercial Studio Photography
GM 320 Electronic & Internet Publishing
IM 311 Statistical Process Control
Development of a Major Civilization
Literary Expression
CL003 Career Linkages 3rd Requirement

JUNIOR SPRING SEMESTER (12 hrs)

GM 326 Advanced Internet Production
GM 384 Commercial Photography
MN 220 Engineering Economic Analysis
UI 3xx (UI 319 recommended)
WP 003 Writing Proficiency Exam
CCTST California Critical Thinking Skills Test

SENIOR FALL SEMESTER (15 hrs)

GM 385 Non-Linear Video Editing
GM 386 Interactive Multimedia & Animation
GM 480 Advanced Industrial Animation
IM 506 Projects in IET
Living Systems
CL004 Career Linkages 4th Requirement

SENIOR SPRING SEMESTER (16 - 18 hrs)

GM 490 Advanced Graphics Projects
IM 419 Industrial Supervision
UI 3xx University Studies
UI 410 Manufacturing Research Global Society
Political Systems
General Elective (1–3 hours)

120 - 123 Hours

Notes:

- 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.
- An internship is highly recommended – the summer after your junior year is a good time
- For course descriptions, see the latest undergraduate bulletin OR www.semo.edu/bulletin
- Visit <http://www.semo.edu/ustudies/handbook/index.htm> for information on the University Studies program
- For information on Career Linkages, visit <http://www.semo.edu/careerlinkages/students/index.htm>