

# APPLIED ENGINEERING & TECHNOLOGY MANAGEMENT, B.S. - COMPUTER-AIDED DRAFTING & DESIGN CONCENTRATION

Millersville University's Computer-Aided Drafting and Design concentration, within Applied Engineering and Technology Management, is designed to provide students with theoretical and practical skill in drafting and design. In addition, there is work in the areas of technical freehand drawing, design methodology, design for manufacture, technical illustration and rendering using computer-aided drafting systems. All courses feature practical laboratory experiences allowing students to work with equipment, materials and processes that will lead to successful careers in the drafting/design field.

## Major in Appl Engineering & Tech Mgt

Code	Title	Hours
<b>TECHNICAL OPTION</b>		
AENG 110	Communication and Information Systems	3
AENG 120	Energy Systems	3
AENG 130	Production Materials & Processes	3
AENG 241	Drafting Communications	3
AENG 243	Technical Sketching, Design & Rendering	3
AENG 342	Computer-Aided Engineering Drawing	3
AENG 344	Product Design	3
AENG 345	Statics/Strength of Materials	3
AENG 346	Architectural Drawing	3
AENG 347	Engineering Visualization	3
AENG 446	Advanced Applications in Drafting and Design	3
AENG 448	Machine Tool Design	3
<b>TECHNOLOGY MANAGEMENT CORE</b>		
BUAD 251	Principles of Management (C- minimum pre-req for MGMT 452)	3
MGMT 452	Operations and Supply Chain Management	3
AENG 492	Technical Entrepreneurship	3
AENG 494	Total Quality Management	3
OSEH 120	Fundamentals of Safety, Health, Environmental Issues	3

### ELECTIVE COURSES IN TECHNOLOGY MANAGEMENT

A maximum of 6 internship credits (ITEC 300, 400) may be counted for this degree.

Technology Management Electives - Choose 3 of the following:		9-27
BUAD 161	Intro to Financial Accounting	
BUAD 352	Human Resource Management	
BUAD 353		
MGMT 357	International Management	
AENG 300	Co-Op Ed Experience in AENG	
AENG 392	Intro to Industrial Training	
AENG 400	Co-Op Ed Experience in AENG	
OSEH 221	Industrial Fire Prevention, Protection and Control	

OSEH 320	Safety Engineering Principles	
OSEH 323	Human Factors in OSEH	
OSEH 333	Introduction to System Safety	
PSYC 329	Industrial Psychology	
SOCY 318	Soc Of Complex Organizations	
<b>Total Hours</b>		<b>60-78</b>

## Req Related for Applied Engineering, Tech/Mgt

Code	Title	Hours
ECON 101	Principles of Macroeconomics	3
ECON 102	Principles of Microeconomics	3
MATH 130	Elements of Statistics 1	3
Calculus - Choose 1 of the following:		4
MATH 151	Calculus for Management	
MATH 160	Precalculus	
MATH 161	Calculus 1	
Directed Science - Choose 2 of the following:		6-8
CHEM 101	Chem!Better Things/Better Lvng	
CHEM 103	Gen Organic and Biochemistry 1	
CHEM 104	Gen Organic and Biochemistry 2	
CHEM 205		
PHYS 103	Elements of Physics	
PHYS 104	Applied Physics	
PHYS 131	Physics 1 with Algebra	
PHYS 132	Physics 2 with Algebra	
Can receive credit for either PHYS 103 or 104, but not both		
<b>Total Hours</b>		<b>19-21</b>