Pittsburg State University

College of Technology Program Guide

Degree: Bachelor of Science in Engineering Technology
Major: Manufacturing Engineering Technology
Emphasis/Option:
Minor (if required):

As of Fall 2013

Major Requirements (16 hours)

Technical Sciences

MECET 220: Statics 3
or PHYS 220: Engineering Mechanics I-Statics 3
MECET 420: Kinematics 2
MECET 423: Mechanics of Materials 3
MECET 424: Mechanics of Materials Laboratory 1
MECET 524: Fluid Mechanics 3
MECET 525: Fluid Mechanics Laboratory 1
MFGET 564: Heat Treatment and Metallurgy I 3

Technical Specialties (Planned Sequences)

Tool Design

MFGET 160: Manufacturing Graphics 3
MFGET 261: Computer Aided Part Design 3
MFGET 363: Principles of Tool Design 3

Manufacturing Processes

MFGET 263 Manufacturing Methods I (satisfied by general education) (2 hours)
MFGET 268 Manufacturing Methods I Laboratory (satisfied by general education (1 hour)
MFGET 367: Manufacturing Methods II 4
MFGET 661: Computer Aided Manufacturing 3
MFGET 662: Computer Aided Manufacturing II 2
MFGET 690: Manufacturing Production Control & Management 3

Metalcasting

MFGET 567: Principles of Metalcasting 3
MFGET 568: Metalcasting Processing Laboratory 2
MFGET 569: Casting Design and Simulation 3

Capstone Experience

MFGET 666: Manufacturing and Design Project I 2
MFGET 669: Manufacturing and Design Project II 3

Technical Specialties

EET 141: Introductory Electronics 3
EET 340: Introduction to Industrial Automation 3
ETECH 502: Engineering Economy 2-3
MFGET 162: Welding Processes and Procedures 3
MFGET 405: Quality Control 3

ETECH 502 Engineering Economy must be taken for three hours.

Support Courses (19 hours)

ENGL 301: Technical/Professional Writing 3
MATH 122: Plane Trigonometry 3
MATH 143 Elementary Statistics (satisfied by general education) (3 hours)
MATH 150: Calculus I 5
PHYS 100: College Physics I 4
or PHYS 104: Engineering Physics I 4
PHYS 130: Elementary Physics Laboratory I 1

In order to meet the accreditation requirements of ABET, Inc., partial waivers from the Pittsburg State University general education requirements have been allowed.

PHYS 104 Engineering Physics I is the preferred physics support course.

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GENERAL EDUCATION REQUIREMENTS (44-45 hrs.)

Basic Skills **12 hours**

COMM	207	Speech Communication	3
ENGL	101	English Composition	3
ENGL	190	Honors English Composition	3
or ENGL	299	Introduction to Research Writing	3
MATH	143	Elementary Statistics	3

Sciences **8 hours**

Natural Sciences

BIOL	113	Environmental Life Science	4

Physical Sciences

CHEM	105/106	Introductory Chemistry and Laboratory	4

Social Studies **3 hours**

SOC	100	Introduction to Sociology	3

Political Studies **3 hours**

POLS	101	U.S. Politics	3

Producing and Consuming.....6 hours

Technology

MFGET	263	Manufacturing Methods I.	2
MFGET	268	Manufacturing Methods I Laboratory	1

Economy/Business *(Select one)*

ACCTG	201	Financial Accounting	3
ECON	191	Issues in Today's Economy	3
MGMKT	101	Introduction to Business	3

Fine Arts and Aesthetic Studies *(Select one)***..... 2-3 hours**

ART	155	Printmaking and Paper Arts	3
ART	178	Introduction to the Visual Arts	3
ART	188	The Designed World	3
ART	217	Crafts I	3
ART	222	Jewelry Design I	3
ART	233	Drawing I	3
ART	244	Ceramics I	3
ART	266	Sculpture I	3
ART	277	Painting I	3
ART	288	Western Art History I	3
ART	289	Western Art History II	3
ART	311	Art Education	3
COMM	105	Performance Appreciation	3
COMM	205	Performance Studies	3
COMM	295	Theatre History	3
ENGL	250	Introduction to Creative Writing	3
HHP	151	Dance Appreciation	3
MUSIC	120	Music Appreciation	3
MUSIC	121	Introduction to Music Literature	2
MUSIC	321	History of Music	3

Cultural Studies **3 hours**

GEOG	106	World Regional Geography	3

Health and Well Being **4 hours**

Psychological

PSYCH	155	General Psychology	3

Physical

HHP	150	Lifetime Fitness Concepts.	1

Human Heritage **3 hours**

Philosophy

PHIL	105	Ethics	3

Notes

NOTE: The information contained herein is intended to be used for the planning of a student's academic program and does not constitute a contract. While this guide was prepared with the latest information, courses, graduation requirements, and curricula are subject to change.

When a student attains 85 semester hours of credit (including current enrollment) the student must apply for a degree check in the Office of the Registrar (Degree Checking Section), Room 102 Russ Hall.

MINIMUM GENERAL REQUIREMENTS: The minimum requirements for graduation include 124 semester hours of which 60 hours must be from a four year university. In addition, 45 semester hours must be upper division and 30 hours in residence at PSU (including 24 of the last 30). Minimum GPA for non-education degree is 2.0 overall [2.0 in major], secondary education degree is 2.5 overall [2.75 in major], and early/late childhood/unified degree is 2.80 overall [3.0 in major]. A minimum GPA of 2.0 in any minor and in residence coursework is required. General Education and all degree requirements are provided in the online catalog. Refer to individual departments for specific requirements.