Pittsburg State University

College of Technology Program Guide

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

As of Fall 2015

Major Requirements

Technical Sciences (16 hours)

MECET 121: Engineering Graphics I 3
and MECET 226: Computer Aided Design 3
or MFGET 160: Manufacturing Graphics 3
and MFGET 261: Computer Aided Part Design 3
EET 141: Introductory Electronics 3
ETECH 502: Engineering Economy 3
MECET 524: Fluid Mechanics 3
MECET 525: Fluid Mechanics Laboratory 1

Technical Specialties (36 hours)

PET 180: General Plastics Laboratory 1
PET 185: General Plastics 3
PET 281: Plastics Testing Technology 3
PET 370: Thermoplastic Resins Laboratory 1
PET 371: Thermoplastic Resins 3
PET 372: Plastic Processing I Laboratory 1
PET 373: Plastic Processing I 3
PET 374: Thermoset Resins Laboratory 1
PET 375: Thermoset Resins 3
PET 376: Plastic Processing II Laboratory 1
PET 377: Plastic Processing II 3
PET 585: Mold Design 3
PET 586: Senior Project 3
PET 684: Plastics Part Design 3
PET 685: Composites 3
MFGET 268: Manufacturing Methods I Laboratory 1
MFGET 263 Manufacturing Methods I (satisfied by general education) (2 hours)

Choose One Support Emphasis*

Emphasis I- Manufacturing (13 hours)

MATH 126: Pre-Calculus 4
MFGET 405: Quality Control 3
EST 393: Introduction to Industrial Safety 3
or EST 403: Industrial Safety 3
EET 340: Introduction to Industrial Automation 3

Emphasis II- Design (20 hours)

MATH 155: Calculus II 5
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
PHYS 514: Applied Thermodynamics 3
MECET 523: Mechanical Design I 3

*Student must declare either manufacturing or design option and follow option sequence.

Support Courses (23 hours)

ENGL 301: Technical/Professional Writing 3
MATH 150: Calculus I 5
CHEM 215: General Chemistry I 3
CHEM 216: General Chemistry I Laboratory. 2
CHEM 320: Introductory Organic Chemistry. 3
CHEM 326: Organic Chemistry Laboratory. 2
CHEM 620: Polymer Chemistry. 3
CHEM 621: Polymer Chemistry Laboratory 2

Total- Manufacturing Option (124 minimum hours)

Total- Design Option (131 minimum hours)

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

PHYS 104 Engineering Physics I is the preferred physical science course.

Upon completion of required courses a minor in Physical Science will be awarded.

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GENERAL EDUCATION REQUIREMENTS (36-39 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 **9-10 hours**

Natural Sciences (*Select one*)

BIOL	111/112	General Biology and Laboratory	5
BIOL	113	Environmental Life Science	4
BIOL	211	Principles of Biology I	4

Physical Sciences (*Select one*)

PHYS	100	College Physics I	4
or PHYS	104	Engineering Physics I	4
PHYS	130	Elementary Physics Laboratory I	1

Social Studies **3 hours**

SOC	100	Introduction to Sociology	3
WGS	200	Introduction to Women's Studies	3

Health and Well Being **4-6 hours**

Psychological

PSYCH	155	General Psychology	3

Physical (*Select one*)

FCS	203	Nutrition and Health.	3
FCS	301	Nutrition	3
HHP	150	Lifetime Fitness Concepts.	1
NURS	303	Introduction to Public Health	3

Producing and Consuming **5 hours**

(Select one from two of the following three categories)

Technology

MFGET	263	Manufacturing Methods I	2

Economy/Business

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

Select one course from Political Studies, Fine Arts & Aesthetic Studies, Cultural Studies or Human Heritage **3 hours**

Political Studies

POLS	101	U.S. Politics	3
POLS	103	Comparative Political Institutions	3

Fine Arts and Aesthetic Studies

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	Introduction to Art History I	3
ART	289	Introduction to Art History II	3
ART	311	Art Education	3
ART	351	Printmaking, Papermaking, Bookarts and the Letterpress	3
ART	430	Automotive: Art and Design	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

ANTH	101	Introduction to Cultural Anthropology	3
MLL	114	Chinese Language and Culture I	3
MLL	124	French Language and Culture I	3
MLL	154	Spanish Language and Culture I	3
MLL	184	Russian Language and Culture I	3
MLL	194	Korean Language and Culture I	3
GEOG	106	World Regional Geography	3
GEOG	300	Elements of Geography	3
GEOG	304	Human Geography	3
WGS	399	Global Women's Issues	3

Human Heritage

History

HIST	101	World History to 1500.	3
HIST	102	World History from 1500	3
HIST	201	American History to 1865.	3
HIST	202	American History from 1865	3

Literature

ENGL	113	General Literature.	3
ENGL	114	General Literature(Genre)	3
ENGL	116	General Literature(Theme).	3
ENGL	120	Literature and Film	3
ENGL	315	Mythology	3
ENGL	320	Literature and Film	3

Philosophy

PHIL	103	Introduction to Philosophy.	3
PHIL	105	Ethics	3
PHIL	111	Ethics: Applied Emphasis(____).	3
PHIL	112	Biomedical Ethics	3
PHIL	113	Business Ethics	3
PHIL	114	Environmental Ethics	3
PHIL	207	Critical Thinking	3
PHIL	208	Logic	3
PHIL	231	World Religions.	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.