



# Pittsburg State University College of Technology Program Guide

Degree: Bachelor of Science in Engineering Technology

Major: Plastics Engineering Technology

Emphasis/Option: Manufacturing or Design

Accredited by the Engineering Technology Accreditation Commission of ABET, <http://www.abet.org>.

As of Fall 2017

## Major Requirements

### Technical Sciences (25 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
EET 340: Introduction to Industrial Automation .....	3
EST 393: Introduction to Industrial Safety .....	3
or EST 403: Industrial Safety .....	3
MFGET 405: Quality Control .....	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 272: Plastic Processing I Laboratory .....	1
PET 273: Plastic Processing I .....	3
PET 281: Plastics Testing Technology .....	3
PET 370: Thermoplastic Resins Laboratory .....	1
PET 371: Thermoplastic Resins .....	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: Part and Mold Design I .....	3
PET 586: Senior Project .....	3
PET 684: Part and Mold Design II .....	3
PET 685: Composites .....	3
PET 687: Senior Project II .....	2
MFGET 268: Manufacturing Methods I Laboratory .....	1
MFGET 263 Manufacturing Methods I (satisfied by general education) (2 hours)	

### Support Courses (25-27 hours)

ENGL 301: Technical/Professional Writing .....	3
MATH 126: Pre-Calculus .....	4
MATH 150: Calculus I .....	5
CHEM 215: General Chemistry I .....	3
CHEM 216: General Chemistry I Laboratory .....	2
CHEM 320: Introductory Organic Chemistry .....	3
and CHEM 326: Organic Chemistry Laboratory .....	2
or CHEM 360: Introduction to Polymer Science and Technology .....	3
CHEM 625: Polymer Synthesis and Characterizations .....	3
CHEM 626: Polymer Synthesis and Characterizations Laboratory .....	2

In order to meet the requirements of the Engineering Technology Accreditation Commission of ABET, <http://www.abet.org>., partial waivers for the Pittsburg State University general education requirements have been allowed.

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

# 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 ( <i>Select one</i> )			
BIOL	111/112	General Biology and Laboratory.....	5
BIOL	113	Environmental Life Science.....	4
BIOL	211	Principles of Biology I.....	4
Physical Sciences ( <i>Select one</i> )			
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 ( <i>Select one</i> )			
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
MGT	101	Introduction to Business.....	3
MGT	105	Introduction to Entrepreneurship.....	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

### 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	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.