



Pittsburg State University Engineering Technology Program Guide

Bachelor of Science in Engineering Technology (BSET)

Plastics Engineering Technology

2009 – 2011

MAJOR REQUIREMENTS

Technical Sciences

MECET 121	Engineering Graphics I and	3__
MECET 226	Computer Aided Drafting or	2__
MFGET 160	Manufacturing Graphics and	3__
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 Lab	1__

Support Courses

ENGL 301	Technical / Professional Writing	3__
MATH 150	Calculus I	5__
CHEM 215	General Chemistry	3__
CHEM 216	General Chemistry Lab	2__
CHEM 320	Intro to Organic Chemistry	3__
CHEM 326	Intro to Organic Chemistry Lab	2__
CHEM 620	Polymer Chemistry	3__
CHEM 621	Polymer Chemistry Lab	2__

Technical Specialties

PET 180	General Plastics Lab	1__
PET 185	General Plastics	3__
MFGET 263	Manufacturing Methods (See Gen. Ed.)	1__
MFGET 268	Manufacturing Methods I Lab	1__
PET 281	Plastics Testing Technology	3__
PET 370	Thermoplastics Resins Lab	1__
PET 371	Thermoplastics Resins	3__
PET 372	Plastics Processing I Lab	1__
PET 373	Plastics Processing I	3__
PET 374	Thermoset Resins Lab	1__
PET 375	Thermoset Resins	3__
PET 376	Plastics Processing II Lab	1__
PET 377	Plastics Processing II	3__
PET 585	Mold Design	3__
PET 586	Senior Projects	3__
PET 684	Plastics Part Design	3__
PET 685	Composites	3__

CHOOSE ONE SUPPORT OPTION:

Option I – Manufacturing

MATH 126	Pre-Calculus # (see note below)	4__
MATH 143	Elementary Statistics (See Gen. Ed.)	4__
ETECH 296	Materials in Industry	3__
EET 340	Intro. to Industrial Automation	3__
MFGET 405	Quality Control	3__
EST 593	Intro to Industrial Safety or	3__
EST 603	Industrial Safety	3__

Option II – Design

MATH 155	Calculus II	5__
MATH 220	Statics or	3__
PHYS 220	Eng. Mechanics I – Statics	3__
MECET 420	Kinematics	2__
MECET 423	Mechanics of Materials	3__
MECET 424	Mechanics of Materials Lab	1__
PHYS 514	Applied Thermodynamics	3__
MECET 523	Mechanical Design I	3__

GENERAL EDUCATION

HOURS

Basic Skills (12 hours)

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

Natural Science (4-5 hours)

BIOL 111	General Biology	3__
BIOL 112	General Biology Lab	2__
BIOL 113	Environmental Life Science	4__
BIOL 211	Principles of Biology I	4__

Social Studies (3 hours)

SOC 100	Intro to Sociology	3__
WOMEN200	Intro to Women's Studies	3__

Health and Well Being (4-6 hours)

Psychological

PSYCH 155	General Psychology	3__
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Physical (select one)

FCS 203	Nutrition & Health	3__
HHP 150	Lifetime Fitness Concepts	1__

Producing and Consuming (5 hours)

Technology

MFGET 263	Manufacturing Methods I and	2__
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Economy/Business (Select one)

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

Physical Sciences (5 hours)

PHYS 100	College Physics I or	
#PHYS 104	Engineering Physics I	4__
PHYS 130	Elementary Physics Lab I	1__

Preferred

Select one from Political Studies, Fine Arts and Aesthetic Studies/Cultural Studies, or Human Heritage

*Note: See catalog or advisor for complete list. 3-5__

Summary:

	Manufacturing	Design
General Education	36-41__	36-41__
Technical Sciences	16__	16__
Technical Specialties	33__	33__
Support Courses	23__	23__
Option	18__	23__
Total	127-132 hours	131-136 hours

- MATH 126 Pre-Calculus is preferred, MATH-113 College Algebra

AND MATH-122 Plane Trigonometry may be substituted

*Modified 7-1-09