

What Can I Do With a Major in...

Engineering is about creating new solutions to existing or future problems. Engineers are problem solvers who employ science, math, analysis and synthesis to design unique and practical solutions to everyday problems. They must accomplish this often under the constraints of time, budgets, and safety and health issues. Engineers also must be concerned about the environmental, political and social impact their answers will create.

Pre--Engineering majors at Pitt-Bradford complete a one-year program that involve courses in freshman seminar, chemistry, calculus, and English composition. After successfully completing the first year students with a cumulative GPA of 2.75 may further their studies in Engineering.

REQUIRED SKILLS

- Mathematics
- Problem Solving
- Research
- Communication (Written & Oral)
- Organization
- Time Management
- Leadership

POSSIBLE EMPLOYERS

- Corporation
- Industry
- Design Firm
- Government
- Research Firm
- Manufacturing Firm
- College or University

Pre-ENGINEERING

University of Pittsburgh at Bradford Pre-Engineering Major Curriculum

Division: Physical and Computational Sciences

Program Contact: Dr. Ronald E. Mattis, rem23@pitt.edu, 814.362.7571, 106B Fisher Hall

COURSE REQUIREMENTS IN THE MAJOR

ENG 0101 English Composition I
ENG 0102 English Composition II
FS 0102 Freshman Seminar
LNSK 0101 Learning Skills
MATH 0132 Precalculus
MATH 0140 Calculus 1
CHEM 0101 General Chemistry I w/lab
CHEM 0102 General Chemistry II w/lab
Humanities or Social Science electives (6 credits)

Total Credits required for the major 31-32

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