

2009-2010

B.S. in Industrial Technology

With a Specialization in Vehicle Design

College of Sciences and Technology

What is the Study of Industrial Technology with a Specialization in Vehicle Design?

The Bachelor of Science degree program in Industrial Technology prepares graduates to enter supervisory and management levels of technical industries. The major proves a general understanding of tools, materials, and processes used in industry with a fundamental supporting background in business and/or economics and depth in a technical area.

Why Should I Consider this Major?

The Bachelor of Science Degree program in Industrial Technology prepares graduates to enter supervisory and management levels of technical industries.

How to Declare:

Students should declare their major early and seek departmental advisement.

Mid-Program Checkpoint:

Students intending to complete a Bachelor's of Science degree in Industrial Technology with a Vehicle Design specialization within four years should complete the following courses by the start of their junior year. Students are expected to follow all prerequisite requirements for courses and seek early departmental advisement.

Coursework:

ETEC 110, 111, 220, 223, 224, 225, 280, 281

MATH 114, 115 (or 118), 124 or 134, 125 or 135

CSCI 138 or 140

CHEM 121

PHYS 114, 115

Minimum of 22 credits of GURs

Contact Information:

Engineering Technology
Department Website:
<http://www.etc.wvu.edu/>

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Sample Career Fields:

Jobs obtained by students vary widely depending on the individual student's abilities and the portfolio of work they create while in the program. Graduates of this program hold positions with all the major automotive equipment manufacturers and custom car-building companies, as well as positions as stylists. Graduates also work in the marine, aerospace, composites and trucking industries.



Industrial Technology Major Requirements: 110 Credits

Core Courses: 73 Credits

ETEC 110 Engineering Design Graphics I (3)
ETE 111 Engineering Design Graphics II (3)
ETE 220 Introduction to Engineering Materials (4)
ETE 223 Machine Metal Processes (4)
ETE 224 Applied Engineering Statics (3)
ETE 225 Strength of Materials (5)
ETE 327 Manufacturing Economics (3)
ETE 333 Polymer Technology (5)
ETE 351 Electronics for Engineering Technology (4)
MATH 114 Precalculus I (5)
MATH 115 Precalculus II (5)
Or MATH 118 Accelerated Precalculus (5)
MATH 124 Calculus and Analytic Geometry
Or MATH 134 Honors Calculus I (5)
MATH 125 Calculus and Analytic Geometry
Or MATH 135 Honors Calculus II (5)
CHEM 121 General Chemistry I (5)
CSCI 138 Programming Fundamentals in Visual Basic (4)
Or CSCI 140 Programming Fundamentals in C++(4)
PHYS 114 Principles of Physics I (5)
PHYS 115 Principles of Physics II (5)

These courses are required (or advised) for this major and may be used to satisfy GUR or Writing Proficiency requirements:

QSR: MATH 124 and higher

LSCI: CHEM 121, PHYS 115

SCI: PHYS 114

WP: Three Writing Proficiency points are required for graduation (they are noted as WP1, WP2, and WP3). Check [Classfinder](#) or [Online Timetable](#) for departmental offerings each quarter.

Vehicle Design: 37 credit minimum

ETEC 280 Power Mechanics (5)
ETE 281 Power Transmission (5)
ETE 334 Reinforced Plastics/Composites (5)
ETE 380 Advanced Power Mechanics (3)
ETE 382 Automotive Electrical & Electronics Systems (2)
ETE 400 Independent Study (1)
ETE 480 Advanced Emission Control (3)
ETE 484 Vehicle Design (5)
ETE 486 Advanced Vehicle Design (5)

Optional:

ETE 311 Perspective and Rendering (4)
ETE 322 Numerical Control Operations (4)
ETE 381 Advanced Power Transmission (3)
ETE 481 Gaseous Fuels (4)
ETE 489 Directed Research in Power Mechanics (3)

Other Industrial Technology options:

B.S. Electronics Engineering Technology (149 credits)

B.S. Industrial Design (135 credits)

B.S. Manufacturing Engineering Technology (144 credits)

B.S. Plastics Engineering Technology (139 credits)

B.S. Vehicle Engineering Technology Option in Plastics Engineering Technology (139 credits)

Minor in Embedded Systems (27 credits)

Minor in Sustainable Design (30-32 credits)

Minor in Industrial Technology-Vehicle Design (25 credits)

Minor in Manufacturing Engineering Technology (18 credits)