

MILLERSVILLE UNIVERSITY

Student Name: _____ Student I.D.# _____

DEGREE: BSE
MAJOR: TECE
OPTION: ENGD

MAJOR REQUIREMENTS FOR A BSE DEGREE IN TECHNOLOGY AND ENGINEERING EDUCATION

Total credit hours required: 129.0 minimum

REQUIREMENTS AND POLICIES FOR THE BSE TECHNOLOGY AND ENGINEERING EDUCATION MAJOR

A. Policies for Admission to the Major

1. New students (freshmen and transfers) must be admitted to the Technology and Engineering Education major by the Office of Admissions upon admission to the University.
2. Admission into the Technology and Engineering Education major from other departments is upon approval of the Chairperson of the Applied Engineering, Safety & Technology Department.
3. Non-degree and continuing education students must be admitted to the Technology and Engineering Education major by the Office of Admissions.

B. Policies for Retention in the Major

1. University requirements for retention; also, 3.00 QPA upon the completion of 60 credits and approval to proceed with advanced professional studies.

C. Policies for Completion of the Major

1. Completion of all University curricular requirements.
2. English 312, 316, 318, or 319 satisfies the upper-level writing course requirement under the General Education Curriculum.
3. Students who graduate with a BSE degree for teaching certification must satisfy one of the options for pre-service testing requirements as part of their admission to Advanced Professional Studies (APS). Details are available on the Field Services website.

D. Admission to Advanced Professional Studies and Certification (Education Majors)

All students enrolled in teacher preparation programs must be admitted to Advanced Professional Studies and meet Pennsylvania State requirements and university requirements prior to being enrolled in their initial Advanced Professional Studies course. Students must meet additional Pennsylvania State requirements in order to be certified including completion of two PRAXIS exams in Fundamental Subjects Content Knowledge and Technology Education. These tests are mandated by the Pennsylvania State Board of Education and must be passed in order to qualify for an Instructional I Professional Certificate. A listing of Advanced Professional Studies courses and requirements is available in each department office, the Early Field Experience office, and on the Early Field Experience website.

Note to the student: *This form is provided as a guide. It is your responsibility to consult regularly with your advisor to be aware of changes and curriculum details which are not incorporated on this form.*

MAJOR SEQUENCE AND DEGREE REQUIREMENTS

Major: **BSE TECH & ENGINEERING EDUCATION**

Option: **ENGINEERING DESIGN**

Major Field Requirements: **48.0 credits**

Other Requirements: **54.0 credits**

When applicable, up to six of the **REQUIRED RELATED** courses may be credited toward the Liberal Arts Core subject to normal distribution rules.

Course No.	Short Title	C.H.	Grade	Course No.	Short Title	C.H.	Grade
TECHNOLOGY REQUIREMENTS (48.0 credits)				PROFESSIONAL EDUCATION (33.0 credits)			
Technology Literacy Courses (12.0 credits)							
ITEC 110	Communication Info Systems	3.0	_____	EDFN 211	Foundations Modern Education	3.0	_____
ITEC 120	Energy & Power Systems	3.0	_____	EDFN 241	Psyc Foundations of Teaching	3.0	_____
ITEC 130	Production Materials & Processes	3.0	_____	EDTE 291	Found. Tech & Engineering Ed.	3.0	_____
ITEC 140	Biorelated Technologies	3.0	_____	EDTE 391	Curriculum & Instruction	3.0	_____
Technical Core (36.0 credits)							
ITEC 222	Transportation & Automation	3.0	_____	EDSE 340	Content Area Literacy	3.0	_____
ITEC 241	Drafting Communications	3.0	_____	SPED 346	Secondary Students w/Disabilities	3.0	_____
ITEC 251	Print Media Systems	3.0	_____	EDSE 471	Differentiating Instruction	3.0	_____
---OR---				EDTE 461	Student Teach Tech Ed	9.0	_____
ITEC 252	Web Publishing Systems	3.0	_____	EDTE 491	Professional Seminar	1.0	_____
ITEC 261	Electronic Systems	3.0	_____	EDTE 496	Innovation & Design Methods	2.0	_____
ITEC 271	Nonmetallic Materials	3.0	_____	Note: Admission to Advanced Professional Studies (APS) required to be admitted to EDTE 391, 461, 491, EDSE 340, 471, and SPED 346 and including 3.0 GPA. EDTE 291, 391, SPED 346 - minimum of C required.			
---OR---				REQUIRED RELATED (21.0 credits)			
ITEC 281	Metallic Materials & Prod. Mthds.	3.0	_____	MATHEMATICS (7.0 credits)			
ITEC 327	Engineering Structures	3.0	_____	MATH 130	Elements of Statistics I	3.0	_____
ITEC 344	Product Design	3.0	_____	MATH 151	Calculus for Mgmt, SS & Life	4.0	_____
ITEC 346	Architectural Drawing & Design	3.0	_____	SCIENCE (8.0 credits)			
ITEC 435	Manufacturing Enterprise	3.0	_____	PHYS 131	Physics I w/Algebra	4.0	_____
ITEC *	_____	_____	_____	PHYS 132	Physics II w/Algebra	4.0	_____
ITEC *	_____	_____	_____	ENGLISH (6.0 credits)			
ITEC *	_____	_____	_____	ENGL _____	"G1 Literature Course"	3.0	_____
<p>* Choose three electives for Technology and Engineering Education, Engineering Design concentration from the following electives:</p> <p>ITEC 262, 325, 326, 332, 342, 345, 357, 364, 382, 446, 448, 466, 467, 498; OSEH 320 or 323</p> <p>Note: Only one OSEH course may be used as a lab elective.</p>				<p>Choose <u>one</u> of the following:</p> <p>ENGL 312 Technical Writing 3.0 _____</p> <p>ENGL 316 Business Writing 3.0 _____</p> <p>ENGL 318 Web Writing 3.0 _____</p> <p>ENGL 319 Science Writing 3.0 _____</p>			