

MILLERSVILLE UNIVERSITY

Student Name: _____ Student I.D.# _____

DEGREE: BSE
MAJOR: TECE
OPTION:

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 Field Services office, and on the Field Services 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:

Major Field Requirements: **48.0 credits**

Other Requirements: **48.0 - 51.0 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 (15.0-18.0 credits)			
ITEC 281	Metallic Materials & Prod. Mthds.	3.0	_____	MATHEMATICS (6.0 - 8.0 credits)			
ITEC 327	Engineering Structures	3.0	_____	Choose two General Education approved MATH courses.			
ITEC 344	Product Design	3.0	_____	MATH _____		3.0-4.0	_____
ITEC 346	Architectural Drawing & Design	3.0	_____	MATH _____		3.0-4.0	_____
ITEC 435	Manufacturing Enterprise	3.0	_____	Note: If you are completing the Engineering Design concentration, you should complete:			
ITEC *	_____	_____	_____	MATH 130 Elements of Statistics (3.0 credits)			
ITEC *	_____	_____	_____	MATH 151 Calculus for Mgmt, SS & Life (4.0 credits)			
ITEC *	_____	_____	_____	SCIENCE (3.0 - 4.0 credits)			
* Choose three standard electives for Technology and Engineering Education:				Choose a G2 Lab Science from BIOL, CHEM, PHYS or ESCI. Note: BIOL 100, CHEM 103, CHEM 205, PHYS 103 or PHYS 104 are strongly recommended.			
ITEC 243, 245, 262, 325, 326, 331, 332, 342, 345, 351, 355, 356, 357, 364, 375, 376, 382, 425, 427, 446, 448, 455, 466, 467, 498, 515, 525, 535 or 251, 252, 271, 281 if not completed for Technical Core.				Note: If you are completing the Engineering Design concentration, you should complete:			
				PHYS 131 Physics I w/Algebra (4.0 credits)			
				PHYS 132 Physics II w/Algebra (4.0 credits)			
				ENGLISH (6.0 credits)			
				ENGL _____	"G1 Literature Course"	3.0	_____
				Choose from ENGL 230, 231, 232, 233, 234, 235, 236, 237, 238H, 239H, 241H, 333, 334, 338, 401, 418)			
				Choose <u>one</u> of the following:			
				ENGL 312	Technical Writing	3.0	_____
				ENGL 316	Business Writing	3.0	_____