TECHNOLOGY & ENGINEERING EDUCATION (K-12), B.S.ED.

The TECE program is a teacher preparation program for persons seeking Pennsylvania teacher certification in technology education, K-12.

The three themes of professional education at Millersville are supported and implemented, including engagement in learning communities of inquiry and action, a focus on students and demonstration of exemplary professional practices. Professional dispositions are developed and assessed in communicating professionally, demonstrating professional growth, demonstrating professional relationships, exhibiting attributes suitable to the profession, and displaying responsible and ethical behavior.

TECE majors are broadly prepared in general education, technology and engineering, and professional teacher education. Emphasis is on understanding, applying, managing and assessing design, biorelated, communication, energy and power, transportation and production technologies. Students may specialize in a technical area of their choice and must devote one semester to full-time student teaching in a public school.

An advisory committee of technology and engineering education teachers and supervisors assists with providing program relevancy. This program is accredited and nationally recognized as an outstanding technology teacher education program by the International Technology and Engineering Educators Association/Council on Technology and Engineering Teacher Education.

Major in Technology and Engineering Ed - BSE

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Code	Title			Hours
TECHNOLOGY LIT	ERACY CORE			
AENG 110	Communication	and Inform	nation Systems	3
AENG 120	Energy Systems			3
AENG 130	Production Mate	rials & Pro	cesses	3
AENG 140	Bio-related Techr	nologies		3
TECHNICAL CORE				
AENG 241	Drafting Commu	nications		3
Print Media Syste of the following:	ms or Web Publis	hing Intera	active Media - Choose	1 3
AENG 251	Print Media Syst	ems		
AENG 252	Web Publishing S	Systems		
AENG 261	Electronic System	ns		3
Processing Nonm following:	etallic or Metallic	Materials	- Choose 1 of the	3
AENG 271	Processing Nonr	netallic Ma	aterials	
AENG 281	Processing Meta	llic Materi	als	
AENG 322	Transportation			3
AENG 327	Engineering Stru	ctures		3
AENG 344	Product Design			3
AENG 346	Architectural Dra	wing		3
AENG 435	Manufacturing E	nterprise		3
TECHNICAL LAB	COURSES			
Laboratory Electiv	es - Choose 3 of t	he followi	ng:	9-10
AENG 243	Technical Sketch	ing, Desig	n & Rendering	

AENG 251 Print Media Systems AENG 252 Web Publishing Systems AENG 271 Processing Nonmetallic Materials AENG 281 Processing Metallic Materials AENG 325 Power Conversion and Control AENG 325 Power Conversion and Control AENG 326 Fluid Power AENG 331 Construction Technology 1 AENG 332 Construction Technology 2 AENG 342 Computer-Aided Engineering Drawing AENG 345 Statics/Strength of Materials AENG 347 Engineering Visualization AENG 351 Digital Imaging AENG 351 Digital Imaging AENG 355 Desktop Publishing AENG 356 Desktop Publishing AENG 357 Packaging Specialty Printing AENG 364 Digital Electronics AENG 375 Polymer and Ceramic Technology AENG 376 Woodworking Technology AENG 375 Polymer and Ceramic Technology AENG 376 Woodworking Technology AENG 376 Woodworking Technology AENG 427 Programmable Logic Controllers AENG 427 Programmable Logic Controllers AENG 427 Programmable Logic Controllers AENG 448 Machine Tool Design AENG 455 R&D in Graphic Communications and Packaging AENG 467 Mobile Robotics AENG 485 Adv Manufacturing Systems AENG 485 Adv Manufacturing Systems AENG 487 Mobile Robotics AENG 488 Adv Adv Manufacturing Systems AENG 535 Adv Prob: AENG 536 Adv Pro			
AENG 262 Semiconductor Electronics AENG 271 Processing Nonmetallic Materials AENG 281 Processing Metallic Materials AENG 325 Power Conversion and Control AENG 326 Fluid Power AENG 331 Construction Technology 1 AENG 332 Construction Technology 2 AENG 342 Computer-Aided Engineering Drawing AENG 345 Statics/Strength of Materials AENG 347 Engineering Visualization AENG 351 Digital Imaging AENG 355 Contemporary Printing AENG 356 Desktop Publishing AENG 357 Packaging Specialty Printing AENG 364 Digital Electronics AENG 375 Polymer and Ceramic Technology AENG 376 Woodworking Technology AENG 376 Woodworking Technology AENG 382 Automated Manufacturing AENG 427 Programmable Logic Controllers AENG 427 Programmable Logic Controllers AENG 446 Advanced Applications in Drafting and Design AENG 455 R&D in Graphic Communications and Packaging AENG 467 Mobile Robotics AENG 468 Adv Manufacturing Systems AENG 498 Independent Study AENG 515 Adv Prob: AENG 525 Adv Prob: AENG 525 Adv Prob: AENG 535 Adv Prob: AENG 535 Adv Prob: AENG 536 Adv Prob: AENG 537 Foundations of Technology & Engineering Ed 3 BDTE 291 Foundations Modern Education 3 BDTE 496 Innovatn/Design Methodologies 2 Total Hours Professional Education Code Title Hours EDUCATIONAL FOUNDATIONS EDEN 241 Psychological Foundations of Teaching 3 BDTN 241 Psychological Foundations of Teaching 3 BDTN 241 Psychological Foundations of Teaching 3 BDTR 291 Foundations Modern Education 3 BDTR 291 Foundations of Technology & Engineering Ed 1 BDTE 291 Foundations Modern Education 3 BDTR 291 Foundations of Teaching 3 BDTR 291 Foundations of	AENG 251	Print Media Systems	
AENG 271 Processing Nonmetallic Materials AENG 281 Processing Metallic Materials AENG 325 Power Conversion and Control AENG 326 Fluid Power AENG 331 Construction Technology 1 AENG 332 Construction Technology 2 AENG 342 Computer-Aided Engineering Drawing AENG 345 Statics/Strength of Materials AENG 347 Engineering Visualization AENG 355 Contemporary Printing AENG 355 Contemporary Printing AENG 356 Desktop Publishing AENG 357 Packaging Specialty Printing AENG 364 Digital Electronics AENG 376 Woodworking Technology AENG 376 Woodworking Technology AENG 382 Automated Manufacturing AENG 382 Automated Manufacturing AENG 425 Industrial Robotic Systems AENG 427 Programmable Logic Controllers AENG 446 Advanced Applications in Drafting and Design AENG 448 Machine Tool Design AENG 445 R& Di in Graphic Communications and Packaging AENG 455 R& Di in Graphic Communications and Packaging AENG 467 Mobile Robotics AENG 485 Adv Manufacturing Systems AENG 498 Independent Study AENG 515 Adv Prob: AENG 525 Adv Prob: AENG 525 Adv Prob: AENG 525 Adv Prob: AENG 535 Adv Prob: AENG 535 Adv Prob: AENG 535 Adv Prob: AENG 536 Innovatn/Design Methodologies 2 Total Hours Professional Education Code Title Hours EDUCATIONAL FOUNDATIONS EDFN 211 Psychological Foundations of Teaching 3 REQUIRED EDUCATION COURSES Foundations of Technology Engineering Ed Innovatn/Design Methodologies 2 EDTE 496 Innovatn/Design Methodologies 3 EDTE 291 Foundations of Technology Engineering Ed Innovation and Design Methodologies 2 EDTE 496 Innovatn/Design Methodologies 3 EDTE 291 Foundations of Technology Engineering Ed Innovatrion and Design Methodologies 3 EDTE 291 Foundations AND ADAPTATIONS EDSE 340 Content Area Literacy for Diverse Classrooms 3 SPED 346 Secondary Students w/Disabi	AENG 252	Web Publishing Systems	
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AENG 376 Woodworking Technology AENG 382 Automated Manufacturing AENG 425 Industrial Robotic Systems AENG 427 Programmable Logic Controllers AENG 446 Advanced Applications in Drafting and Design AENG 448 Machine Tool Design AENG 455 R&D in Graphic Communications and Packaging AENG 467 Mobile Robotics AENG 485 Adv Manufacturing Systems AENG 498 Independent Study AENG 515 Adv Prob: AENG 525 Adv Prob: AENG 535 Adv Prob: AENG 535 Adv Prob: AENG 535 Adv Prob: AENG 531 Curr & Inst in Tech & Eng Ed 3 BDTE 291 Foundations of Technology & Engineering Ed 1 EDTE 491 Seminar in Tech & Eng Ed 1 EDTE 496 Innovatn/Design Methodologies 2 Total Hours Professional Education Code Title Hours EDUCATIONAL FOUNDATIONS EDFN 211 Foundations Modern Education 3 REQUIRED EDUCATION COURSES Foundations of Technology Engineering Ed 3 REQUIRED EDUCATION COURSES Foundations of Technology Engineering Ed 3 REQUIRED EDUCATION COURSES Foundations of Technology Engineering Ed 2 Innovation and Design Methodologies 2 EDTE 496 Innovatn/Design Methodologies 2 EDTE 496 Innovatn/Design Methodologies 3 REQUIRED EDUCATION COURSES Foundations of Technology Engineering Ed 2 Innovation and Design Methodologies 2 EDTE 496 Innovatn/Design Methodologies 3 ACCOMMODATIONS AND ADAPTATIONS EDSE 340 Content Area Literacy for Diverse Classrooms 3 SPED 346 Secondary Students w/Disabilities in Inclusive 3	AENG 364	Digital Electronics	
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AENG 425 Industrial Robotic Systems AENG 427 Programmable Logic Controllers AENG 446 Advanced Applications in Drafting and Design AENG 448 Machine Tool Design AENG 448 Machine Tool Design AENG 455 R&D in Graphic Communications and Packaging AENG 467 Mobile Robotics AENG 485 Adv Manufacturing Systems AENG 498 Independent Study AENG 515 Adv Prob: AENG 525 Adv Prob: AENG 525 Adv Prob: REQUIRED EDTE COURSES - count in major GPA EDTE 291 Foundations of Technology & Engineering Ed 3 EDTE 391 Curr & Inst in Tech & Eng Ed 3 EDTE 491 Seminar in Techn & Engring Ed 1 EDTE 496 Innovatn/Design Methodologies 2 Total Hours FORGESSIONAL FOUNDATIONS EDFN 241 Psychological Foundations of Teaching 3 REQUIRED EDUCATION COURSES Foundations of Technology Engineering Ed Innovation and Design Methodologies 2 EDTE 496 Innovatn/Design Education 3 REQUIRED EDUCATION COURSES Foundations of Technology Engineering Education 3 EDFN 241 Psychological Foundations of Teaching 3 REQUIRED EDUCATION COURSES Foundations of Technology Engineering Education 3 EDTE 291 Foundations of Technology & Engineering Ed Innovation and Design Methodologies 2 EDTE 496 Innovatn/Design Methodologies 2 EDTE 496 Innovatn/Design Methodologies 3 ACCOMMODATIONS AND ADAPTATIONS EDSE 340 Content Area Literacy for Diverse Classrooms 3 SPED 346 Secondary Students w/Disabilities in Inclusive 3	AENG 376	Woodworking Technology	
AENG 427 Programmable Logic Controllers AENG 446 Advanced Applications in Drafting and Design AENG 448 Machine Tool Design AENG 455 R&D in Graphic Communications and Packaging AENG 467 Mobile Robotics AENG 485 Adv Manufacturing Systems AENG 498 Independent Study AENG 515 Adv Prob: AENG 525 Adv Prob: AENG 535 Adv Prob: REQUIRED EDTE COURSES - count in major GPA EDTE 291 Foundations of Technology & Engineering Ed 3 EDTE 391 Curr & Inst in Tech & Eng Ed 3 EDTE 491 Seminar in Techn & Engring Ed 1 EDTE 496 Innovatn/Design Methodologies 2 Total Hours 57-58 Professional Education Code Title Hours EDUCATIONAL FOUNDATIONS EDFN 241 Psychological Foundations of Teaching 3 REQUIRED EDUCATION COURSES Foundations of Technology & Engineering Ed 3 REQUIRED EDUCATION COURSES Foundations of Technology Engineering Education 3 EDTE 291 Foundations of Technology & Engineering Ed 1 Innovation and Design Methodologies 2 EDTE 496 Innovatn/Design Methodologies 2 EDTE 496 Innovatn/Design Methodologies 3 EDTE 291 Foundations of Technology & Engineering Ed 1 Innovation and Design Methodologies 2 EDTE 496 Innovatn/Design Methodologies 3 ACCOMMODATIONS AND ADAPTATIONS EDSE 340 Content Area Literacy for Diverse Classrooms 3 SPED 346 Secondary Students w/Disabilities in Inclusive 3	AENG 382	Automated Manufacturing	
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AENG 448 Machine Tool Design AENG 455 R&D in Graphic Communications and Packaging AENG 467 Mobile Robotics AENG 485 Adv Manufacturing Systems AENG 498 Independent Study AENG 515 Adv Prob: AENG 525 Adv Prob: AENG 535 Adv Prob: AENG 535 Adv Prob: REQUIRED EDTE COURSES - count in major GPA EDTE 291 Foundations of Technology & Engineering Ed 3 EDTE 391 Curr & Inst in Tech & Eng Ed 3 EDTE 491 Seminar in Techn & Engring Ed 1 EDTE 496 Innovatn/Design Methodologies 2 Total Hours Professional Education Code Title Hours EDUCATIONAL FOUNDATIONS EDFN 211 Foundations Modern Education 3 EDFN 241 Psychological Foundations of Teaching 3 REQUIRED EDUCATION COURSES Foundations of Technology Engineering Education 3 EDTE 291 Foundations of Technology & Engineering Ed Innovation and Design Methodologies 2 EDTE 496 Innovatn/Design Methodologies ACCOMMODATIONS AND ADAPTATIONS EDSE 340 Content Area Literacy for Diverse Classrooms 3 SPED 346 Secondary Students w/Disabilities in Inclusive 3	AENG 427	Programmable Logic Controllers	
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AENG 467 Mobile Robotics AENG 485 Adv Manufacturing Systems AENG 498 Independent Study AENG 515 Adv Prob: AENG 525 Adv Prob: AENG 535 Adv Prob: REQUIRED EDTE COURSES - count in major GPA EDTE 291 Foundations of Technology & Engineering Ed 3 EDTE 391 Curr & Inst in Tech & Eng Ed 3 EDTE 491 Seminar in Techn & Engring Ed 1 EDTE 496 Innovatn/Design Methodologies 2 Total Hours 57-58 Professional Education Code Title Hours EDUCATIONAL FOUNDATIONS EDFN 211 Foundations Modern Education 3 EDFN 241 Psychological Foundations of Teaching 3 REQUIRED EDUCATION COURSES Foundations of Technology Engineering Education 3 EDTE 291 Foundations of Technology & Engineering Ed Innovation and Design Methodologies 2 EDTE 496 Innovatn/Design Methodologies 2 EDTE 496 Innovatn/Design Methodologies 3 ACCOMMODATIONS AND ADAPTATIONS EDSE 340 Content Area Literacy for Diverse Classrooms 3 SPED 346 Secondary Students w/Disabilities in Inclusive 3	AENG 448	Machine Tool Design	
AENG 485 Adv Manufacturing Systems AENG 498 Independent Study AENG 515 Adv Prob: AENG 525 Adv Prob: AENG 535 Adv Prob: REQUIRED EDTE COURSES - count in major GPA EDTE 291 Foundations of Technology & Engineering Ed 3 EDTE 391 Curr & Inst in Tech & Eng Ed 3 EDTE 491 Seminar in Techn & Engring Ed 1 EDTE 496 Innovatn/Design Methodologies 2 Total Hours 57-58 Professional Education Code Title Hours EDUCATIONAL FOUNDATIONS EDFN 211 Foundations Modern Education 3 EDFN 241 Psychological Foundations of Teaching 3 REQUIRED EDUCATION COURSES Foundations of Technology Engineering Education 3 EDTE 291 Foundations of Technology & Engineering Ed Innovation and Design Methodologies 2 EDTE 496 Innovatn/Design Methodologies 2 EDTE 496 Innovatn/Design Methodologies 3 ACCOMMODATIONS AND ADAPTATIONS EDSE 340 Content Area Literacy for Diverse Classrooms 3 SPED 346 Secondary Students w/Disabilities in Inclusive 3	AENG 455	R&D in Graphic Communications and Packaging	
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		Settings	

Curr Instruction	in Technology Engineering Education	3
EDTE 391	Curr & Inst in Tech & Eng Ed	
STUDENT TEACHING		
EDSE 471	Student Teaching Seminar	3
Seminar in Tech	1	
EDTE 491	Seminar in Techn & Engring Ed	
Student Teaching		9
EDTE 461	Edte Stu Teaching	
Total Hours		33

Reg Related for Technology and Engineering Ed

Code	Title	Hours

General Education (G2) Math courses - Choose 2 classes from:

Any MATH course(s) with attribute G2

Science Elective

Choose a G2 Lab Science from BIOL, CHEM, PHYS or ESCI. BIOL 100, CHEM 103, CHEM 205, PHYS 103 or PHYS 104 are strongly recommended.

Literature Requirement - Choose 1 class from:

Any ENGL 230)-237 course(s)
ENGL 241H	H:Explorations in World Lit
ENGL 242	Reading Our World:
ENGL 292	Science Fiction
ENGL 333	African-American Literature 1
ENGL 334	African American Literature 2
ENGL 338	Folklore and Literature
ENGL 401	Old Eng Lang and Literature

Advanced Professional Studies, BSE

Code Title Hours

*Clearances are valid for one year from the date that appears in the header of this degree audit in the field 'Clearance Date'. Clearances cannot expire in the middle of a semester.

APS REQUIREMENTS

Total Hours

English Composi	tion - Choose 1 of the following:	3
ENGL 110	English Composition	
ENGL 110H	Hnrs:English Composition	
English Literature	e - Choose 1 of the following:	3
ENGL 230	Introduction to Literature	
ENGL 231	World Literature 1	
ENGL 232	World Literature 2	
ENGL 233	Early British Literature	
ENGL 234	Later British Literature	
ENGL 235	American Literary Tradition I	
ENGL 236	American Literary Tradition II	
ENGL 241H	H:Explorations in World Lit	
ENGL 242	Reading Our World:	
ENGL 292	Science Fiction	
ENGL 333	African-American Literature 1	
ENGL 333H	Hnrs:African American Lit 1	
ENGL 334	African American Literature 2	
ENGL 334H	Hnrs:African American Lit 2	

ENGL 336	New Dimensions to World Lit
ENGL 338	Folklore and Literature
ENGL 401	Old Eng Lang and Literature
ENGL 402	Middle Eng Lang and Literature
Mathematics	

Two Mathematics courses are required for BSE students. You have taken 0 course(s). It is preferable to take two courses designated as G2. Click here to search for MATH courses on the current web schedule. BIOL 375 will fulfill one Mathematics course for BSE BIOL students

EDFN 211	Foundations Modern Education	6
& EDFN 241	and Psychological Foundations of Teaching	

48 earned (transcript) credit hours are required

APS registration status

You ARE NOT eligible to register for courses requiring APS status.

ACT 126 - Educator Ethics Training

You must submit your Educator Ethics Training.

Pre-Service Testing Required

Pre-Service Testing Status is indicated by one of the following: 1.) PSTA - Pre-Service Testing Accomplished: Verified passing preservice test scores meet the requirement. 2.) PSTI - Pre-Service Testing Incomplete: Non-passing pre-service test scores were submitted prior to the August 1, 2015 policy change. Passing scores must still be achieved in order to meet the PA certification requirements. 3.) PSTU - Pre-Service Testing Unverified: Unofficial copies of pre-service test scores were submitted. Official scores must be sent from the testing company in order to meet PA certification requirements. 4.) PSTX - Pre-Service Testing Waived: Per PDE - ACT 136, the Pre-Service Testing Requirement has been waived.

Pre-Service Testing Status is indicated by one of the following: 1.) PSTA - Pre-Service Testing Accomplished: Verified passing preservice test scores meet the requirement. 2.) PSTI - Pre-Service Testing Incomplete: Non-passing pre-service test scores were submitted prior to the August 1, 2015 policy change. Passing scores must still be achieved in order to meet the PA certification requirements. 3.) PSTU - Pre-Service Testing Unverified: Unofficial copies of pre-service test scores were submitted. Official scores must be sent from the testing company in order to meet PA certification requirements. 4.) PSTX - Pre-Service Testing Waived: Per PDE - ACT 136, the Pre-Service Testing Requirement has been waived

Your GPA is below 3.0 - please see an advisor

If you are given the 2.8 GPA Exception for graduation and you graduate with a GPA lower than 3.0, you must have higher certification test scores in order to meet PA state certification requirements.

No dispositions-related holds

If the requirement above is checked as complete, then there are currently no dispositions-related holds on your APS Status. Registration for APS courses is permitted when all APS requirements have been met. If it is incomplete, you have a hold and APS registration will not be allowed.

Full Admission to APS

When all requirements are met, you must submit application for admission to APS status. Click here for the application.

Total Hours 12