

TECHNOLOGY & ENGINEERING EDUCATION, B.S.ED. - ENGINEERING DESIGN EDUCATION CONCENTRATION

TECE majors with the Engineering Design Education concentration meet all of the same requirements of the Technology & Engineering Education major, including broad preparation in all technology & engineering content areas. However, this concentration would ensure that students are being challenged to take some courses that best fit an engineering design-focused curriculum, including specific math and science courses and a narrower set of engineering-focused technical electives.

Major in Technology and Engineering Ed - BSE

| Code | Title | Hours |
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| TECHNOLOGY LITERACY CORE | | |
| AENG 110 | Communication and Information Systems | 3 |
| AENG 120 | Energy Systems | 3 |
| AENG 130 | Production Materials & Processes | 3 |
| AENG 140 | Bio-related Technologies | 3 |
| TECHNICAL CORE | | |
| AENG 241 | Drafting Communications | 3 |
| Print Media Systems or Web Publishing Interactive Media - Choose 1 of the following: | | 3 |
| AENG 251 | Print Media Systems | |
| AENG 252 | Web Publishing Systems | |
| AENG 261 | Electronic Systems | 3 |
| Processing Nonmetallic or Metallic Materials - Choose 1 of the following: | | 3 |
| AENG 271 | Processing Nonmetallic Materials | |
| AENG 281 | Processing Metallic Materials | |
| AENG 322 | Transportation | 3 |
| AENG 327 | Engineering Structures | 3 |
| AENG 344 | Product Design | 3 |
| AENG 346 | Architectural Drawing | 3 |
| AENG 435 | Manufacturing Enterprise | 3 |
| TECHNICAL LAB COURSES FOR ENGINEERING DESIGN | | |
| Only one OSEH course may be counted as a laboratory elective. | | |
| Laboratory Electives for Engineering Design - Choose 3 of the following: | | 9-10 |
| AENG 262 | Semiconductor Electronics | |
| AENG 325 | Power Conversion and Control | |
| AENG 326 | Fluid Power | |
| AENG 332 | Construction Technology 2 | |
| AENG 342 | Computer-Aided Engineering Drawing | |
| AENG 345 | Statics/Strength of Materials | |
| AENG 347 | Engineering Visualization | |
| AENG 357 | Packaging Specialty Printing | |
| AENG 364 | Digital Electronics | |
| AENG 382 | Automated Manufacturing | |
| AENG 446 | Advanced Applications in Drafting and Design | |

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| AENG 448 | Machine Tool Design | |
| AENG 467 | Mobile Robotics | |
| AENG 498 | Independent Study | |
| OSEH 320 | Safety Engineering Principles | |
| OSEH 323 | Human Factors in OSEH | |
| 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 | |
| ACCOMMODATIONS AND ADAPTATIONS | | |
| EDSE 340 | Content Area Literacy for Diverse Classrooms | 3 |
| SPED 346 | Secondary Students w/Disabilities in Inclusive Settings | 3 |
| 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 Technology Engineering Education | | 1 |
| EDTE 491 | Seminar in Techn & Engring Ed | |
| Student Teaching | | 9 |
| EDTE 461 | Edte Stu Teaching | |
| Total Hours | | 33 |

Req Related for Technology and Engineering Ed

| Code | Title | Hours |
|---|-------------------------------|-------|
| MATHEMATICS | | 7 |
| MATH 130 | Elements of Statistics 1 | |
| MATH 151 | Calculus for Management | |
| SCIENCE | | 8 |
| PHYS 131 | Physics 1 with Algebra | |
| PHYS 132 | Physics 2 with Algebra | |
| 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 | |

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| ENGL 401 | Old Eng Lang and Literature | |
| Total Hours | | 15 |

Advanced Professional Studies, BSE

| Code | Title | Hours |
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*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

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| English Composition - Choose 1 of the following: | | 3 |
| ENGL 110 | English Composition | |
| ENGL 110H | Hnrs:English Composition | |
| English Literature - 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.

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| 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 pre-service 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.

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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.

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| Total Hours | 12 |
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