

TECHNOLOGY EDUCATION MAJOR

Program Requirements

Code	Title	Credits
Degree Core Requirements		
EDEP 2374	Educational Psychology for PK-12 Teachers	3
EDCI 2574	Social Foundations of Education	3
EDCI 3144	Education of Exceptional Learners	3
EDEP 3474	Principles and Practices in PK-12 Assessment	3
EDCI 4724	Secondary School Teaching Methods I	3
EDCI 4734	Adolescent Literacy and Reading	3
EDCI 4744	Secondary School Teaching Methods II	3
Subtotal		21
Major Requirements		
CS 1014	Introduction to Computational Thinking	3
CS 1064	Introduction to Programming in Python	3
ECE 1004	Introduction to ECE Concepts	3
EDTE 1014	Teaching Technology, Engineering, and Design	3
EDTE 2005	Engineering Technologies	3
EDTE 2006	Engineering Technologies	3
EDTE 2204	Emerging Issues in Technology and Engineering	3
EDTE 3204	Robotics Education	3
EDTE 4204	Capstone in Technology and Engineering Education	3
Subtotal		27
Technology Education Breadth Electives		
Choose from approved list		
Choose from approved list		
Subtotal		6
Field-Based Requirements		
EDCI 2004	Exploring the Teaching Profession- Field Studies in Education	3
EDCI 3964		6
EDCI 4964		6
EDCT 4624	Managing a Career and Technical Education Program	3
Subtotal		18
Free Elective Course		
Subtotal		3
Pathways Concept 1 - Discourse		
Pathway 1f (https://catalog.vt.edu/course-search/?attrs_pathways=attrs_pathways_G01F)		
ENGL 1105	First-Year Writing	3
ENGL 1106	First-Year Writing	3
Pathway 1a (https://catalog.vt.edu/course-search/?attrs_pathways=attrs_pathways_G01A)		3
Pathways Concept 2 - Critical Thinking in the Humanities		
STS 1504	Introduction to Science, Technology, and Society	3
Pathway 2 (https://catalog.vt.edu/course-search/?attrs_pathways=attrs_pathways_G02)		3

Pathways Concept 3 - Reasoning in the Social Sciences

Pathway 3 (https://catalog.vt.edu/course-search/?attrs_pathways=attrs_pathways_G03) 3

Pathway 3 (https://catalog.vt.edu/course-search/?attrs_pathways=attrs_pathways_G03) 3

Pathways Concept 4 - Reasoning in the Natural Sciences

Choose from approved list 3

Choose from approved list 3

Pathways Concept 5 - Quantitative and Computational Thinking

Pathway 5f (https://catalog.vt.edu/course-search/?attrs_pathways=attrs_pathways_G05F)

MATH 1025 Elementary Calculus 3

MATH 1026 Elementary Calculus 3

Pathway 5a (https://catalog.vt.edu/course-search/?attrs_pathways=attrs_pathways_G05A) 3

Pathways Concept 6 - Critique and Practice in Design and the Arts

Pathway 6d (https://catalog.vt.edu/course-search/?attrs_pathways=attrs_pathways_G06D)

EDTE 1004 Introduction to Integrative STEM Education 3

Pathway 6a (https://catalog.vt.edu/course-search/?attrs_pathways=attrs_pathways_G06A) 3

Pathways Concept 7 - Critical Analysis of Identity and Equity in the United States

Pathway 7 (https://catalog.vt.edu/course-search/?attrs_pathways=attrs_pathways_G07) 3

Subtotal 45

Total Credits 120

Approved Courses for Pathway Concept 4: Reasoning in the Natural Sciences (6 credits)

Code	Title	Credits
BIOL 1105 & BIOL 1106	Principles of Biology and Principles of Biology	6
Or		
CHEM 1015 & CHEM 1016	Chemistry in Context and Chemistry in Context	6
Or		
CHEM 1035 & CHEM 1036	General Chemistry and General Chemistry	6
Or		
PHYS 2205 & PHYS 2206	General Physics and General Physics	6

Approved Technology Education Breadth Electives

Code	Title	Credits
ALCE 3074	Materials and Procedures of Agricultural Construction	3
ALCE 3084	Agricultural Metal Fabrication	3
AOE 2664/ ECE 2164	Exploration of the Space Environment	3
BC 1214	Introduction to Building Construction I	3
BC 1224	Introduction to Building Construction II	3
CS 1114	Introduction to Software Design	3
CS 2064	Intermediate Programming in Python	3
ENSC 1015	Foundations of Environmental Science	3

ENSC 1016	Foundations of Environmental Science	3
ENSC 3604	Fundamentals of Environmental Science	3
FREC 2004	Forest Ecosystems	3
FREC 2124	Forests, Society & Climate	3
FREC/LAR/NR 2554	Leadership for Global Sustainability	3
MSE 1014	The Science of Materials in Everyday Life	3

Satisfactory Progress Toward Degree

University Policy 91 requirements a student to make satisfactory progress towards a degree. Additionally, licensure programs require that by the time a student has completed 72 credits, they must have passed all licensure examinations, carry an in-major GPA of 3.0, and be accepted into the educator preparation program.

Graduation Requirements

Credits and GPA

Completion of a minimum of 120 credits with a minimum overall GPA of 2.5; and in-major GPA of 3.0 (In major GPA includes all EDCI, EDCT, EDTE, and EDEP courses)

Additional Requirements

Students must submit passing scores on required state licensure examinations. Students must also complete an industry internship in technology, engineering, or a design-based company and obtain an approved industry credential.

Prerequisites

Some required courses listed may have pre-/co-rerequisites; please consult the University Course Catalog or check with your advisor.

Language Study Requirement

Students who do not complete two years of a single foreign or classical language or American Sign Language in high school, may do so by taking six credits of college-level foreign or classical language or American Sign Language. The six credits used to meet this requirement may not be used to satisfy the minimum number of credits required for graduation.