Career and Technical Education B.S. in Education

About this Composite Major

Students pursuing this degree can build upon an associate's degree to become certified to teach in trade, industry, or allied health. This degree prepares graduates for teaching positions in Career and Technical Education (CTE) high school and college programs. Graduates with the CTE Composite Major are prepared to teach in trade, industry, and technical fields including areas such as:

- Automotive technology
- Construction technology
- Electronics
- Allied health careers
- Welding

To be eligible for the degree students should have a documented technical specialty area.
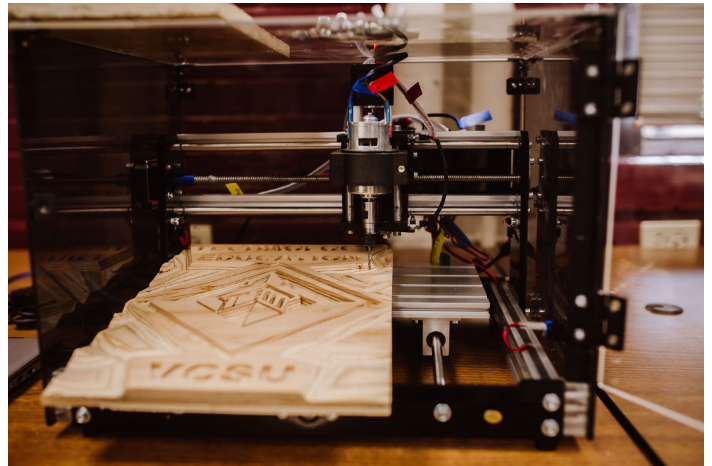
Meet an Employer and a Student

"The CTE baccalaureate degree has helped our CTE faculty become well versed in the Career and Technical Education field. They were experts in their specific occupational fields, but, in most cases, had little background in Career and Technical Education and educational theory. We have seen great personal and professional growth in our CTE faculty who have completed their degrees from VCSU. As a whole they are more confident and skilled in their teaching, and we have seen several assume leadership roles on campus."
—Doug Darling, President, Lake Region State College

"Through Valley City State University I was able to take advantage of their program of Prior Learning Assessment. With this program, I was able to earn 12 credits quite quickly by proving I have done work in my professional career that would prove I had mastered the material taught in those courses. It was quite a savings in time and money."
— Charlie Haydt, Pennsylvania; BSED Career and Technical Education, 2018

Teacher Education Requirements

Students are typically admitted into Teacher Education during their sophomore year or beginning of their junior year of college. This program requires a minimum cumulative GPA of 2.75 or higher and successful completion of the Praxis I test. Additional criteria for Admission to Teacher Education can be found at the following website: www.onestop.vcsu.edu (https://onestop.vcsu.edu/support/solutions/articles/10000052001-teacher-education/).

Contact Information

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General Education Requirements

Code	Title	Credits
English Composition		
Select one of the following:		6
ENGL 110	College Composition I	
ENGL 120	College Composition II	
or ENGL 125	Introduction to Professional Writing	
or		
ENGL 120	College Composition II	
or ENGL 125	Introduction to Professional Writing	
ENGL 210	College Composition III: Persuasive Writing	
Speech Communication		
Select one of the following:		3
COMM 110	Fundamentals of Public Speaking	
COMM 212	Interpersonal Communication	
COMM 216	Intercultural Communication	
Mathematics		
Select one of the following:		3
MATH 103	College Algebra	
MATH 104	Finite Mathematics	
MATH 107	Precalculus	
MATH 110	Mathematics in Society	
MATH 165	Calculus I	
MATH 210	Elementary Statistics	
Lab Science		
Select two of the following, one must come from the Natural and Physical Sciences category		8
Natural and Physical Sciences (ND:LABSC)		
BIOL 111	Concepts of Biology	
BIOL 150	General Biology I	
BIOL 151	General Biology II	
BIOL 170	General Zoology	
CHEM 115	Introductory Chemistry	
CHEM 116	Introduction to Organic and Biochemistry	
CHEM 121	General Chemistry I	
CHEM 122	General Chemistry II	
GEOL 100	Introduction to Earth Science	
GEOL 106	The Earth Through Time	
PHYS 100	Concepts of Physics	
PHYS 110	Introductory Astronomy	
PHYS 211	College Physics I	
PHYS 212	College Physics II	
PHYS 251	University Physics I	
PHYS 252	University Physics II	
Additional Sciences (ND:SCI)		
PSYC 240	Cognition and Brain Science	
TECH 161	Technology, Engineering, and Design	
TECH 165	Technology Solutions for Society	
Wellness		
Select one of the following:		2
HPER 100	Concepts of Fitness and Wellness	
HPER 212	Introduction to Stress Management	
Computer Science and Literacy		
Select one of the following:		3
CIS 147	Principles of Information Security	
CIS 170	Introduction to Computer Information Systems [1]	
CSCI 120	Introduction to Programming	
CSCI 127	Introduction to Programming in Java	
CSCI 160	Introduction to Structured Programming I	
CSCI 289	Social Implications of Computer Technology [1]	
SE 110	Discovering Computing	
Humanities		
Literacies		
Select one of the following:		3
ASL 101	American Sign Language I	
ASL 102	American Sign Language II	
COMM 211	Oral Interpretation	
ENGL 220	Introduction to Literature	
ENGL 225	Introduction to Film	
ENGL 231	Bible as Literature	
ENGL 232	Mythology	
ENGL 236	Women and Literature	
ENGL 241	World Literature I	
ENGL 242	World Literature II	
ENGL 261	American Literature I	
ENGL 262	American Literature II	
HUM 201	Civilization, Thought, and Literary Heritage	
PSYC 200	Ethics and Philosophy of Science	
SPAN 101	1st Year Spanish I	
SPAN 102	1st Year Spanish II	
SPAN 201	2nd Year Spanish I	
SPAN 202	2nd Year Spanish II	
THEA 110	Introduction to Theatre Arts	
Art and Music		
Select one of the following:		3
ART 110	Introduction to the Visual Arts	
ART 115	Introduction to Digital Media	
ART 210	Art History I	
ART 211	Art History II	
ART 233	History of Craft	
HUM 202	Fine Arts and Aesthetics	
MUS 100	Music Appreciation	
MUS 101	Music Fundamentals	
MUS 201	World Music	
MUS 207	History of Popular/Rock Music	
Social Science		
Select 6 credits from the following:		6
COMM 112	Understanding Media and Social Change	
COMM 114	Human Communication	
ECON 201	Principles of Microeconomics	
ECON 202	Principles of Macroeconomics	
GEOG 151	Human Geography	
HIST 103	United States to 1877	
HIST 104	United States to Present	
HIST 211	World Civilizations to 1500	
HIST 212	World Civilizations since 1500	
HIST 267	Environmental History	
HIST 270	Native American Studies	
POLS 115	American National Government	
POLS 116	State and Local Government	
PSYC 111	Introduction to Psychology	
SOC 110	Introduction to Sociology	
SOC 111	Introduction to Anthropology	
Additional Humanities or Social Science		

Select one additional course from Humanities or Social Science or select from the following:		2
ART 122	Two-Dimensional Design	
ART 130	Drawing I	
ART 150	Ceramics I	
ART 180	Photography I	
GEOG 111	Survey of Geography	
MUS 104	Group Piano for Non-Majors	
MUS 105	Group Piano for Non-Majors	
MUS 130	Valkyries	
MUS 131	Concert Choir	
MUS 140	Athletic Band	
MUS 141	Concert Band	
PHYS 275	Planetarium Science	
THEA 201	Theatre Practicum	
Total Credits		**39**

[1] Course satisfies the Digital Literacy graduation requirement.

Major Requirements

Code	Title	Credits
Required Courses		
CTE 431	History, Philosophy and Practices of Career and Technical Education	3
CTE 434	Leadership in Career and Technical Student Organizations	3
CTE 437	Student Performance Evaluation in Career and Technical Education	3
CTE 438	Developing and Managing Competency-Based Instructional Materials	3
CTE 490	Methods for Teaching Career & Technical Education Subjects	3
TECH 356	Safety and Management in Technology Education	3
Technical Specialty		
Students who have successfully completed a ND Department of Career and Technical Education approved post-secondary program in their area of technical specialty from area Career and Technical (CTE) institutions, or possess an associate of applied science degree or its equivalent, are eligible for technical specialty credits. Students who meet work experience requirements, but have not completed an approved Trade, Technical, and Health Education program, may apply for Technical Specialty Life Experience credits through the Prior Learning Assessment Program.		36-50
Electives		
Students with the consent of their advisor should choose appropriate electives to complete 120 semester credits required for the degree.		
Total Credits		**54-68**

Total General Education 39 Hrs
Total Major Requirement 54-68 Hrs
Total Professional Education Sequence 23-34 Hrs
Total Credits Needed to Graduate 120 Hrs

Professional Education Sequence

Code	Title	Credits
Professional Education Sequence		
EDUC 240	Educating Exceptional Students	3
EDUC 250	Introduction to Education	3
EDUC 283	Understanding Cultural Diversity in Education	3
EDUC 300	Educational Technology	2
EDUC 351	Secondary Practicum and Classroom Management	1
EDUC 352	Culturally Diverse Practicum	1
or EDUC 464	Practicum in the ELL Classroom	
EDUC 375	Teaching Reading in the Content Areas	2
EDUC 400	Educational Psychology	2
EDUC 450	Trends in Assessment and Educational Issues	2
CTE 492	Career and Technology Education Teaching Experience [1, 2]	1-12
or EDUC 492	Clinical Practice	
PSYC 250	Developmental Psychology	3
Total Credits		**23-34**

[1] If you are intending on licensing in a state other than North Dakota and need a student teaching/mentor-based experience, take CTE 492. You may sign up for a range of credits from 1-12 credits depending on your home state requirements regarding student teaching experience.

[2] If you are intending on licensing in North Dakota and need a student teaching/mentor-based experience, you must take EDUC 492 A (Fall 6 cr.) and EDUC 492 B (Spring, 6 cr.) during your first two years of school employment for a total of 12 credits.

For degree and graduation requirements, visit degree requirements and graduation requirements (http://catalog.vcsu.edu/undergraduate-catalog/academic-affairs/degree-requirements/).

Learning Outcomes

1. Methodology – Students will develop knowledge necessary for program development, implementation, evaluation and assessment of student learning.
2. Content – Students will acquire knowledge and skills necessary to demonstrate competence in technological literacy
3. Application – Students will demonstrate competency in technology education content and apply this knowledge in real world experiences.