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Master of Education Program -Concentration in Technology Education (Tech Ed)

MED-EDUC-TECH | programcodes

Valley City State University (VCSU) has designed this concentration for primary and secondary level educators wishing to pursue a master's degree in Technology Education or Career and Technical Education. Curriculum in the courses is set up to be consistent with the Standards for Technological Literacy defined by the International Technology and Engineering Educators Association (ITEEA) as well as the North Dakota Department of Career and Technical Education.

Course Rotation

TECHNOLOGY EDUCATION

OPTION 1	SECONDARY STEM EDUCATION			
CORE	12 hours	Fall	Spring	Summe
EDUC 610	Research in Education (3)	Fall	Spring	Summer
EDUC 625	Issues in School, Community, and Family (3)	Fall		Summer
EDUC 640	Supervision and Assessment of Teachers & Learners (3)		Spring	Summer
EDUC 657	Exceptionality, Diversity, and Difference (3)	Fall	Spring	
REQUIRED	18 hours			
TECH 675	Research and Assessment in Tech Ed (3)		Spring	
STEMED 650	Standards-Based Curriculum and Methods (3)	Fall		
STEMED 660	Design for Engineering (3)	Fall		
STEM ED 665	Invention and Innovation (3)			Summer
STEMED 670	Design, Technology and Engineering for Elem (3)		Spring	
STEMED 680	Building Math (3)			Summer
or				
STEMED 682	Engineering the Future (3)		Spring	
ELECTIVES	3 hours			
TECH 688	Safety and Management in the Tech Lab (3)			Summer
EDUC 635	Technology for Learning (3)		Spring	
SPECIAL PROGRAM	3 hours			
TECH 689	Research Application (1)	Fall	Spring	Summer
TECH 698	Capstone (2)	Fall	Spring	Summer

Secondary STEM Education Option

FALL Program of Study						
FALL	SPRING	SUMMER	FALL	SPRING	SUMMER	
EDUC 610	EDUC 657	STEMED 680	EDUC 625	EDUC 640	TECH 698	
STEMED 650	TECH 675	STEMED 665	STEMED 660	STEMED 670	TECH 689	
	STEMED 682	EDUC 625	EDUC 657		TECH 688	

*The fall program of study has the option to take STEMED 682 or 680, but use the courses grouped by color.

SPRING Program	of Study					
SPRING	SUMMER	FALL	SPRING	SUMMER	FALL	
EDUC 610	EDUC 625	EDUC 657	EDUC 640	STEMED 680	TECH 698	
STEM ED 670	STEMED 665	STEMED 650	TECH 675	TECH 688	TECH 689	
					STEMED 660	
SUMMER Program of Study						
SUMMER	FALL	SPRING	SUMMER	FALL	SPRING	
EDUC 610	EDUC 657	TECH 675	STEMED 680	EDUC 625	TECH 698	
STEMED 665	STEMED 650	EDUC 640	TECH 688	STEMED 660	TECH 689	
		or			STEMED 670 or	
		STEMED 670			EDUC 640	

TECHNOLOGY EDUCATION

OPTION 2	ELEMENTARY STEM EDUCATION			
CORE	12 hours			
EDUC 610	Research in Education (3)	Fall	Spring	Summer
EDUC 625	Issues in School, Community, and Family (3)	Fall		Summer
EDUC 640	Supervision and Assessment of Teachers & Learners (3)		Spring	Summer
EDUC 657	Exceptionality, Diversity, and Difference (3)	Fall	Spring	
REQUIRED	15 hours			
TECH 675	Research and Assessment in Tech Ed (3)		Spring	
STEMED 655	STEM Curriculum, and Methods, Elementary (3)	Fall		
STEMED 670	Design, Technology, and Engineering for Elem (3)		Spring	
STEMED 671	Inquiry Based Thematic Instruction (3)	Fall		
STEMED 680	Building Math (3)			Summer
ELECTIVES	6 hours			
TECH 688	Safety and Management in the Tech Lab (3)			Summer
STEM ED 665	Invention and Innovation			Summer
EDUC 635	Technology for Learning (3)		Spring	
SPECIAL PROGRAM	3 hours			
TECH 689	Research Application (1)	Fall	Spring	Summer
TECH 698	Capstone (2)	Fall	Spring	Summer

Elementary STEM Education Option

FALL	SPRING	SUMMER	FALL	SPRING	SUMMER
EDUC 610	EDUC 640	STEMED 680	EDUC 625	EDUC 657	TECH 698
STEMED 655	TECH 675	STEMED 665 or	STEMED 671	STEMED 670	TECH 689
		TECH 688			STEMED 665 o
					TECH 688
SPRING Program	of Study				
SPRING	SUMMER	FALL	SPRING	SUMMER	FALL
STEMED 610	EDUC 640	STEMED 671	EDUC 657	STEMED 665	TECH 698
STEM ED 670	STEMED 680	STEMED 655	TECH 675	TECH 688	TECH 689
					EDUC 625
SUMMER Progra	m of Study				
SUMMER	FALL	SPRING	SUMMER	FALL	SPRING
STEMED 680	EDUC 610	TECH 675	EDUC 640	EDUC 625	TECH 698
STEMED 665 or	STEMED 655	EDUC 657 or	STEMED 665 or	STEMED 671	TECH 689
TECH 688		STEMED 670	TECH 688		EDUC 657 or
					STEMED 670

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TECHNOLOGY EDUCATION

OPTION 3	CAREER AND TECHNICAL EDUCATION			
CORE	12 hours			
EDUC 610	Research in Education (3)	Fall		Summer
EDUC 625	Issues in School, Community, and Family (3)	Fall	Spring	Summer
EDUC 640	Supervision and Assessment of Teachers & Learners (3)		Spring	Summer
EDUC 657	Exceptionality, Diversity, and Difference (3)	Fall	Spring	
REQUIRED	15 hours			
TECH 675	Research and Assessment in Tech Ed (3)		Spring	
TECH 651	Curriculum Development in CTE (3)		Spring (even)	
TECH 652	Instructional Strategies in Training & Occupational Ed (3)		Spring (odd)	
TECH 653	Trends and Issues in Occupational Ed (3)	Fall		
TECH 654	Admin. And Management in CTE (3)			Summer
ELECTIVES	6 hours			
STEMED 680	Building Math (3)			Summer
STEMED 682	Engineering the Future (3)		Spring	
STEMED 660	Design for Engineering (3)	Fall		
STEMED 665	Invention and Innovation (3)			Summer
TECH 688	Safety and Management in the Tech Lab (3)			Summer
EDUC 635	Technology for Learning (3)		Spring	
SPECIAL PROGRAM	3 hours			
TECH 689	Research Application (1)	Fall	Spring	Summer
TECH 698	Capstone (2)	Fall	Spring	Summer

Career and Ted	hnical Education O _l	otion			
FALL Program	of Study				
FALL EDUC 610 TECH 653	SPRING TECH 651 TECH 675	SUMMER TECH 654 EDUC 640	FALL EDUC 657 STEMED 660 or EDUC 625	SPRING TECH 652 EDUC 625 or STEMED 682	SUMMER TECH 698 TECH 689 TECH 688 or STEMED 680 or STEMED 665
SPRING Progra	m of Study				
SPRING	SUMMER	FALL	SPRING	SUMMER	FALL
TECH 651	TECH 654	TECH 653	TECH 652	EDUC 640	TECH 698
EDUC 657	EDUC 610	EDUC 625	TECH 675	TECH 688, or STEMED 665 or STEMED 680	TECH 689 STEMED 660
SUMMER Prog	ram of Study				
SUMMER	FALL	SPRING	SUMMER	FALL	SPRING
EDUC 610	TECH 653	TECH 651	EDUC 640	EDUC 657	TECH 698
TECH 654	EDUC 625	TECH 675	TECH 688 or STEMED 665 or STEMED 680	STEMED 660	TECH 689 TECH 652