

**Bachelor of Science Degree – Technology Education  
Program of Study**

*Minimum 120 credits required, 30 of which must be completed after admission to CEHD*

**Business and Industry Education  
420 VoTech Building  
Department of Work, Community and Family Education  
University of Minnesota  
St. Paul, MN 55108**

Name \_\_\_\_\_ U of MN Student ID Number \_\_\_\_\_ Phone Number \_\_\_\_\_

Local Address \_\_\_\_\_ City \_\_\_\_\_ State, Zip Code \_\_\_\_\_ E-mail Address \_\_\_\_\_

**Liberal Education Requirements  
The Diversified Core Curriculum:**

**Physical and Biological Sciences**

A minimum of 2 courses totaling at least 8 credits, including one course in physical and one course in biological science, each with a lab or field experience.

Course	Title	Transfer or Substitution	Physlab	Biolab	CD	IP	Designated Themes*			Gr	Cr
							Env	Smstr/Yr			
_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____

**Physical and Biological Sciences Total Credits** \_\_\_\_\_

**Social Science and Humanities**

A minimum of 11 credits in Social Science and a minimum of 6 credits in Humanities. Also, a minimum of 3 credits in Literature and a minimum of 3 credits in Historical Perspective.

Course	Title	Transfer or Substitution	Soc Sci	Hum	Lit	HP	CD	IP	Designated Themes*			Gr	Cr
									Env	Smstr/Yr			
Psy 1001	Introduction to Psychology (4 cr) <b>OR</b>	_____	X	___	___	___	___	___	___	___	___	___	___
GC 1281	General Psychology (4 cr)	_____	X	___	___	___	___	X	___	___	___	___	___
Rhet 1101	Writing to Inform, Convince, and Persuade (4 cr)	_____	X	___	___	___	___	X	___	___	___	___	___
Rhet 3562W	Technical and Professional Writing <b>OR</b>	_____	___	___	___	___	___	___	___	___	___	___	___
BA 3033W	Business Communication (4 cr)*	_____	___	___	___	___	___	___	___	___	___	___	___
Comm 1101	Introduction to Public Speaking (3 cr) <b>OR</b>	_____	___	___	___	___	___	___	___	___	___	___	___
Rhet 1223	Oral Presentations in Public Settings (3 cr)	_____	___	___	___	___	___	___	___	___	___	___	___

**Social Science and Humanities Total Credits** \_\_\_\_\_

\*Required course for students who are also completing a business minor through the University's Carlson School of Management

**Mathematical Thinking**

At least 3 credits

Course	Title	Transfer or Substitution	Designated Themes*					
			CD	IP	Env	Smstr/Yr	Gr	Cr
Math 1031	College Algebra & Probability (3 cr)	_____	_____	_____	_____	_____	_____	_____
<b>Mathematical Thinking Total Credits</b> _____								

**Technology Education Subject Matter (47 credits)**

*Technical Skills (36 cr)*

Course	Title	Transfer or Substitution	Designated Themes*		
			Smstr/Yr	Gr	Cr
BIE 3111	Exploring Technology Systems (3 cr)	_____	_____	_____	_____
BIE/AFEE 3112	Technical Drawing and Production Technologies (3 cr)	_____	_____	_____	_____
BIE 3113	Manufacturing Technology (3 cr)	_____	_____	_____	_____
BIE 3114	Construction Technology (3 cr)	_____	_____	_____	_____
BIE/AFEE 3121	Communication, Power and Energy, Transportation and Machinery Technologies (3 cr)	_____	_____	_____	_____
BIE 3122	Communication and Information Technology (3cr)	_____	_____	_____	_____
BIE 3123	Energy, Power and Transportation Technologies (3 cr)	_____	_____	_____	_____
BIE 5101	Technical Problem Solving (3 cr)	_____	_____	_____	_____
BIE 5344	Facilities Management in Business and Industry (3 cr)	_____	_____	_____	_____
BIE 3151	Technical Development: Advanced	_____	_____	_____	_____
BIE 5151	Technical Development: Specialized	_____	_____	_____	_____
BIE 5596	Occupational Experience in Business and Industry (1-10 cr)	_____	_____	_____	_____
<i>Note: A limited number of technical-college credits can be applied to BIE 3151 or BIE 5151.</i>					
<b>Technical Skills Total Credits</b>					_____

Technological knowledge (11 cr)

Course	Title	Transfer or Substitution	Designated Themes*		
			Smstr/Yr	Gr	Cr
BIE 5011	Introduction to Microcomputer Applications (3 cr) <b>OR</b> Substitution approved by advisor	_____	_____	_____	_____
BIE 5365	Curriculum Development in Technology Education (3 cr)	_____	_____	_____	_____
HRD/WCFE 5661	Instructional Methods for Business and Industry Education: Advanced (2 cr) TES	_____	_____	_____	_____
WCFE 3011 or 5011W	Technology and Public Ethics (3 cr) <b>(C/PE)</b>	_____	_____	_____	_____
<b>Technological Knowledge Total Credits</b>					_____



The state of Minnesota requires that persons applying for a teaching license must pass the following **standardized tests**. Students can take these tests while they are still undergraduate students, and must be taken before they can be recommended for licensure.

Test	Test Registration Number	Minimum Score
Praxis I: Academic Skills Assessments (take all 3) Reading Writing Mathematics	710 or 711 720 or 721 730 or 731	173 or 320 172 or 318 169 or 314
Praxis II: Subject Assessments/ Specialty Area Tests Technology Education	050	To be announced
Praxis II: Principles of Learning and Teaching (PLT)  PLT 5-9 PLT 7-12	523 524	144 153

**\* Designated Themes**

1 course of at least 3 credits in each of the following, so as to complete 9 credits:

- Environment
- International Perspectives
- Cultural Diversity

Consult guidelines for courses that fulfill multiple requirements in Course Catalog

**Additional Degree Requirements**

- GPA 2.8 and 30 credits completed after admission to graduate

**Program Approval:**

\_\_\_\_\_  
Advisor

\_\_\_\_\_  
Date

\_\_\_\_\_  
Student Progress Committee

\_\_\_\_\_  
Date