Technology & Engineering Education

- Bachelor of Science (B.S.)
- Program Curriculum



Mathematics/Science coursework	<u>12 cr.</u>
CHEM 1020 - Chemical Technology	4 cr.
 course also satisfies UNIFI Scientific Reasoning requirement 	nt.
MATH 1140 - Precalculus	4 cr.
PHYSICS 1000 - Physics in Everyday Life & Lab or	4 cr.
PHYSICS 1511 - General Physics I	
 course also satisfies UNIFI Scientific Reasoning requirement 	nt.

Technology & Engineering Core	24 cr.
TECH 1008 - Basic Manufacturing Processes	3 cr.
TECH 1010 - Metal Removal Processes	3 cr.
TECH 1024 - Technical Drawing & Design I	3 cr.
TECH 1037 - Intro to Circuits or	3 cr.
TECH 3164 - Programmable Logic Controllers	3 cr.
TECH 1055 - Graphic Communications Foundation	s 3 cr.
TECH CM 1000 - Intro to Construction Processes	3 cr.
TECH TEE 2020 - Transportation Technology	3 cr.
TECH TEE 3050 - Robotics & Sensors	3 cr.

Technology & Engineering Education Core	12 cr.
TECH TEE 1000 - Intro. to Technology & Eng. Education	3 cr.
TECH TEE 3100 - Tech. & Eng. Edu. Curriculum Planning	3 cr.
TECH TEE 3150 - Tech. & Eng. Education Lab Management	t 3 cr.
TECH TEE 4100 - Tech. & Eng. Edu. Level 3 Teaching Exp.	1 cr.
TECH TEE 4200 - Tech. & Eng. Education Methods	2 cr.

Teacher Licensure coursework 3	<u> 30 cr.</u>
TEACHING 2017 - Level 1 Field Exp.: Exploring Teaching	1 cr.
EDPSYCH 2030 - Dynamics of Human Development • course also satisfies UNIFI Human Condition (Domestic) required	3 cr. ment.
SPED 3150 - Meeting the Needs of Diverse Learners in Classrooms	2 cr.
TEACHING 3128 - Lvl. 2 Field Exp.: Lesson Planning & Instruction	1 cr.
EDPSYCH 3148 - Learning & Motivation in Classroom Contexts	3 cr.
MEASURES 3150 - Classroom Assessment	2 cr.
SOCFOUND 3119 - Schools & American Society	3 cr.
TEACHING 4170 - Human Relations - Awareness & Application	3 cr.
TEACHING 3138 - Secondary School Teaching	12 cr.

UNI Foundational Inquiry	37 cr.
Written Communications	3 cr.
Oral Communications	3 cr.
Quantitative Reasoning	3 cr.
Human Condition (Domestic)	3 cr.
• requirement completed with EDPSYCH 2030.	
Human Condition (Global)	3 cr.
Scientific Reasoning	4 cr.
requirement completed with PHYSICS 1000 or 1511.	
Human Expression	3 cr.
Responsibility	3 cr.
UNIFI Elective	3 cr.
requirement completed with CHEM 1020.	
UNIFI Elective	3 cr.
UNIFI Elective	3 cr.
UNIFI Elective	3 cr.
Inspired by the University of Northern Iowa mission to engage students in	1

high-quality and high-impact learning experiences within a challenging and supportive environment, UNI's new general education requirements are designed to ensure that students' foundational learning experiences lead to a lifetime full of

potential. For more information, visit **unifi.uni.edu**.

Credit Totals	
Math/Science coursework	12 cr.
Technology & Engineering Core	24 cr.
Technology & Engineering Edu. Core	e 12 cr.
Teacher Licensure coursework	30 cr.
UNI Foundational Inquiry (UNIFI)	37 cr.
Credits counted twice (major & UNIF	FI) -11 cr.
Total	104 cr.
University Electives needed	22 cr.
Grand Total	126 cr.

University of Northern Iowa 25 Industrial Technology Center Cedar Falls, IA 50614-0178

Cedar Falls, IA 50614-0178 Phone: (319) 273-2561 || E-mail: appliedengineering@uni.edu

Important ALEKS Test Information

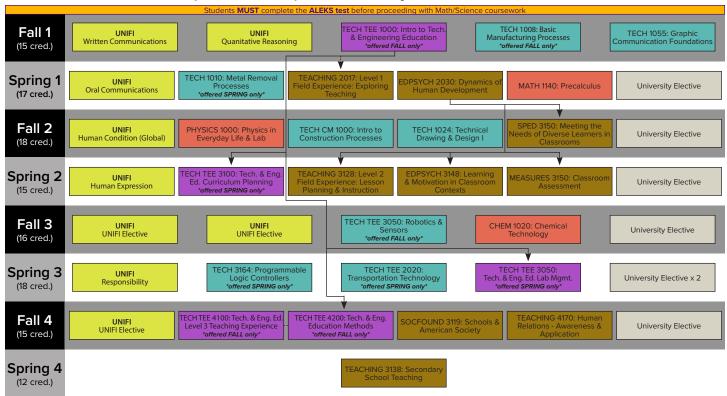
The ALEKS test is a math placement test that all UNI students must complete prior to enrolling in certain math & science courses. Below are the scores required for the math & science requirements in this program:

Technology & Engineering Education

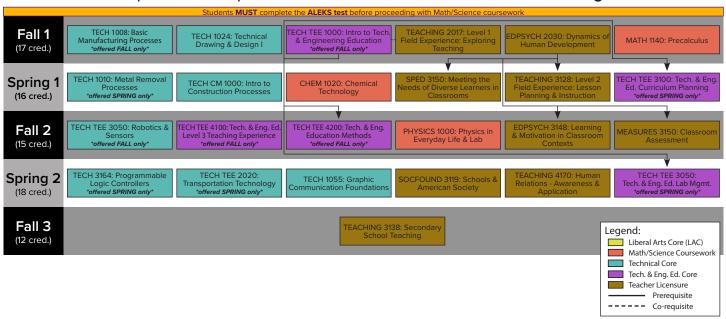
- Bachelor of Science (B.S.)
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Example course sequence for *first-year*, *freshman* students



Example course sequence for transfer student with an A.A. or A.S. degree



Department of Applied Engineering & Technical Management

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