

Transfer Pathway
Associate of Science in Engineering

North Idaho College

Course #	Course Name	UofI Equivalent	Cr
1. General Education Requirements			
A. Written Communication (6 credits)			
ENGL 101	Writing & Rhetoric I	ENGL 101	3
ENGL 102	Writing & Rhetoric II	ENGL 102	3
B. Oral Communication (3 credits)			
COMM 101	Fundamentals of Oral Comm	COMM 101	3
C. Mathematical Way of Knowing (3-4 credits)			
MATH 170	Calculus I	MATH 170	4
D. Scientific Way of Knowing (7-8 credits)**			
CHEM 111	General Chemistry I	CHEM 111 & 111L	5
PHYS 211	Engineering Physics I	PHYS 211 & 211L	5
E. Humanistic Way of Knowing (6 credits)**			
PHIL 103	Introduction to Ethics	PHIL 103	3
F. Social and Behavioral Way of Knowing (6 credits)**			
ECON 201	Principles of Macroeconomics	ECON 201	3
G. Institutionally Designated Courses (5 credits)			
2. Degree Requirements			
ENGR 123	Intro to Engineering	ENGR 102	2
ENGR 210	Statics	ENGR 210	3
MATH 175	Calculus II	MATH 175	4
MATH 370	Intro to Ordinary Differential Equations	MATH 310	3
3. Suggested Elective Courses			
CS 150	Computer Science I	CS 120	4
CS 240	Digital Logic	ECE 240 & 241	4
ENGR 220	Dynamics of Rigid Bodies	ENGR 220	3
ENGR 240	Circuits I	ECE 210 & 211	4
ENGR 241	Circuits II	ECE 212 & 213	4
MATH 275	Calculus III	MATH 275	4
PHYS 212	Engineering Physics II	PHYS 212 & 212L	5

Planning Notes

- This document does not substitute for meeting with your advisor. See the current North Idaho College catalog for complete degree requirements.
- Transfer to the University of Idaho with an Associate from the North Idaho College through the Articulation Agreement.
- University of Idaho Transfer Policies and Course Equivalencies can be found at <https://www.uidaho.edu/registrar/transfer>.
- Work with a North Idaho College advisor to ensure proper course sequencing for the Associate degree.
- Apply for admission to University of Idaho at <https://www.uidaho.edu/admissions/apply>.
- Submit official transcripts to University of Idaho (Moscow). Submit a final official transcript once your degree is posted.
- A full listing of applicable courses as well as guidelines for completion of the Associate is available at <https://catalog.nic.edu/>

*Recommended course

**Credits must be earned from two different disciplines

Minimum Total Credits 60

Transfer Pathway
B.S. Electrical Engineering

University of Idaho

Course #	Course Name	Cr
ECE 101	Foundations of Electrical and Computer Engineering	2
ECE 292	Sophomore Seminar	0
ECE 310	Microelectronics I	3
ECE 311	Microelectronics I Lab	1
ECE 320	Energy Systems I	3
ECE 321	Energy Systems I Laboratory	1
ECE 330	Electromagnetic Theory	3
ECE 331	Electromagnetics Laboratory	1
ECE 340	Microcontrollers	3
ECE 341	Microcontrollers Lab	1
ECE 350	Signals and Systems I	3
ECE 351	Signals and Systems I Lab	1
ECE 480	EE Senior Design I	3
ECE 481	EE Senior Design II	3
ECE 491	Senior Seminar	0
ENGR 360	Engineering Economy	2
ENGL 317	Technical Writing	3
MATH 330	Linear Algebra	3
STAT 301	Probability and Statistics	3

Planning Notes

1. This document does not substitute for meeting with your advisor. See the current University of Idaho catalog for complete degree requirements at: <https://catalog.uidaho.edu/>
2. Presenting this document to your academic advisor can allow you to be moved to the 2020-2021 University of Idaho catalog.
3. To graduate with this degree, the department requires an institutional GPA of at least 2.0 in all courses completed at the University of Idaho.
4. A minimum of 120 credits is required.
5. Review the Degree Audit regularly to check your status of completion of major and/or minor.
6. A full listing of applicable courses as well as guidelines for completion of the Bachelor degree is available at <https://catalog.uidaho.edu>

Select one upper-division Engineering Science elective:		3
ENGR 320	Engineering Thermodynamics and Heat Transfer	
ENGR 335	Engineering Fluid Mechanics	
ENGR 350	Engineering Mechanics of Materials	
ENGR 428	Numerical Methods	
MATH 428	Numerical Methods	
PHYS 428	Numerical Methods	

Select 18 credits of Technical electives taken from upper-division Engineering, Math, Physics, Statistics, and Computer Science courses:		18
ECE 410	Microelectronics II	
or ECE 418	Introduction to Electronic Packaging	
ECE 420	Energy Systems II	
ECE 430	Microwave and Millimeter Wave Circuits	
or ECE 432	Propagation of Wireless Signals	
or ECE 434	Antenna Principles and Design	
ECE 440	Digital Systems Engineering	
or ECE 443	Distributed Processing and Control Networks	
ECE 450	Signals and Systems II	
ECE 460	Semiconductor Devices	
or ECE 465	Introduction to Microelectronics Fabrication	

Minimum Total Credits 128