



# Itasca Community College/North Dakota State University

## Computer Engineering Transfer Guide

Computer Engineering Program: 128 Credits

YEAR: 2019-2020

Effective Spring 2020



ICC students are encouraged to connect with NDSU admission and engineering advisors one full semester prior to transfer  
**Engineering Advisor:** Joel.Hanson@ndsu.edu **Transfer Recruitment:** john.e.hest@ndsu.edu

- ICC students are encouraged to complete their Associates Degree prior to transferring to NDSU. Completing the Associates of Arts (AA) degree, Associates of Science (AS) degree, or the MN Transfer Curriculum prior to transferring will satisfy NDSU's required lower division Gen Ed credits (39 credits) upon transfer.
- Visit [www.ndsu.edu/transfer](http://www.ndsu.edu/transfer), select "Transfer Resources", then "Transfer Evaluation System (TES)", then navigate to ICC to see ICC/NDSU equivalencies.
- Additional course substitutions may be available. ICC students must meet with NDSU dept advisor to review transfer work.
- Program requirements change periodically. It is the student's responsibility to be in contact with advisors from both institutions to obtain the most current program information to help ensure a smooth transfer.

### Computer Engineering NOTES

- Transfer Students: No D's or F's accepted for credit in: Biology, Chemistry, Computer Science, Math, Physics, or any engineering course. No D's or F's accepted in ECE 173, 275, or EE 206

### English and Communication

Itasca Course	Cr	NDSU Equivalent	Cr	NDSU Gen Ed /NOTES
ENGL 1101 Composition I	4	ENGL 110 College Composition I	4	Communication (C)
ENGL 1113 Composition II	3	ENGL 120 College Composition II	3	Communication (C)
ENGL 1105 Technical Research Writing	3	ENGL 321 Writing in the Technical Prof	3	Communication (C)
SPCH 1105 Fundamentals of Public Speaking	3	COMM 110 Fund of Public Speaking	3	Communication (C)

### Math

Itasca Course	Cr	NDSU Equivalent	Cr	NDSU Gen Ed /NOTES
MATH 1122 Calculus I	4	MATH 165 Calculus I	4	Quantitative Reasoning
MATH 1123 Calculus II	4	MATH 166 Calculus II	4	
MATH 2102 Multivariable Calculus	4	MATH 265 Calculus III	4	Will need to take Math 494 (1 cr)
MATH 2104 Diff Eq/Intro to Linear Algebra	4	MATH 266 Diff Eq	3	Will need to take Math 129 (3 cr)

### Chemistry, Physics, Engineering, and Electives

Itasca Course	Cr	NDSU Equivalent	Cr	NDSU Gen Ed/Electives
CHEM 1201 General Chemistry I	4	CHEM 121/L General Chemistry I/L	3/1	Science & Technology (S)
PHYS 1201 Gen Physics I	4	PHYS 251 University Physics I/L	4/1	Science & Technology (S)
PHYS 1202 Gen Physics II	4	PHYS 252 University Physics II/L	4/1	Tech Elective
ENGR 1115 Digital Logic	3	ECE 275 Digital Systems I	4	(Need 1 cr special topics lab)
ENGR 1220 Intro to Engineering	3	ECE 111 Intro to E & C Engineering	4	
ENGR 2106 Circuits I	4	EE 206 Circuit Analysis I	4	
ENGR 2107 Circuits II	4	ECE 311 Circuit Analysis II/L	4	Tech Elective
ENGR 1232, ENGR 2233, & ENGR 2234	3/3/3	ENGR 402 Ethics	1	
CSCI 1205 C++ Programming	3	ECE 173 Intro to Computing	4	(Need 1 cr special topics lab)

### Humanities & Fine Arts (A), Social/Behavioral (B) - 6 credits each, and Wellness (W) - 2 credits minimum

Itasca Course	Cr	NDSU Equivalent	Cr	NDSU Gen Ed /NOTES
The Humanities & Fine Arts	3	NEED 6 credits in each of the following categories: Humanities & Fine Arts and Social/Behavioral Sciences. Also need a Cultural Diversity (D) and a Global Perspectives (G) designated course. Certain (D) and (G) courses double count for categories (A) or (B). *No more than 3 of the 6 Humanities & the Fine Arts credits may be in fine arts performance.		
The Humanities & Fine Arts	3			
History & the Social/Behavioral Sciences	3			
History & the Social/Behavioral Sciences	3			
PE 1201, HLTH 1201, or HLTH 1202	2/3	HNES 100, HDFS 242, or HNES 200	2/3	Wellness (W)