



**Williston State College/North Dakota State University
Agricultural and Biosystems Engineering Transfer Guide**

Agricultural and Biosystems Engineering Program
(Agricultural Engineering track): 133 Credits
YEAR: 2023-2024
Effective Fall 2023



WSC students are encouraged to connect with NDSU admission and engineering advisors one full semester prior to transfer
Engineering Advisor: Joel.Hanson@ndsu.edu

- WSC students are encouraged to complete their Associates Degree prior to transferring to NDSU. Completing an Associates of Arts (AA) degree or Associates of Science (AS) degree prior to transferring will satisfy NDSU's required lower division Gen Ed credits (39 credits) upon transfer.
- Visit www.ndsu.edu/transfer, select "Transfer Credit and Degree Completion" under "Transfer Applicants", then "ACCESS TES DATABASE", then navigate to WSC to see WSC/NDSU equivalencies.
- Additional course substitutions may be available. WSC 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.

English and Communication

<i>WSC Course</i>	<i>Cr</i>	<i>NDSU Equivalent</i>	<i>Cr</i>	<i>NDSU Gen Ed /NOTES</i>
ENGL 110 Composition I	3	ENGL 110 College Composition I	3	Communication (C)
ENGL 120 Composition II	3	ENGL 120 College Composition II	3	Communication (C)
COMM 110 Fundamentals of Public Speaking	3	COMM 110 Fund of Public Speaking	3	Communication (C)

Math

<i>WSC</i>	<i>Cr</i>	<i>NDSU Equivalent</i>	<i>Cr</i>	<i>NDSU Gen Ed /NOTES</i>
MATH 165 Calculus I	4	MATH 165 Calculus I	4	Quantitative Reasoning
MATH 166 Calculus II	4	MATH 166 Calculus II	4	
MATH 265 Calculus III	4	MATH 265 Calculus III	4	Sub for MATH 259 Multivariate Calculus (3 cr)
MATH 266 Intro to Differential Equations	4	MATH 266 Intro to Differential Equations	3	
MATH 210 Elementary Statistics	3	STAT 330 Introductory Statistics	3	

Sciences, and Engineering

<i>WSC Course</i>	<i>Cr</i>	<i>NDSU Equivalent</i>	<i>Cr</i>	<i>NDSU Gen Ed /NOTES</i>
BIOL 150 I/L General Biology I/L	4	BIOL 150/L General Biology I/L	4	[Program elective]
CHEM 121 General Chemistry I L/L	5	CHEM 121/L General Chemistry I/L	3/1	Science & Technology (S)
CHEM 122 General Chemistry II L/L	5	CHEM 122/L General Chemistry II/L	3/1	Science & Technology (S)
CSCI 122 or CSCI 160 Visual BASIC/Computer Sci I	3/4	CSCI 122 (Vis Basic)/ CSCI 160 (Comp Sci I)	3/4	[Program computer elective]
ENGR 101 Graphical Communication	2	ME 212 Fund of Visual Comm for Engineers	3	
		ME 221 Engineering Mechanics I	3	Available online through NDSU
		ME 222 Engineering Mechanics II	3	Available online through NDSU
		ME 223 Mechanics of Materials	3	Available online through NDSU
PHYS 252/L University Physics II/L	5	PHYS 252/L University Physics II/L	5	
PLSC 110 World Food Crops	3	PLSC 110 World Food Crops	3	[Program elective]
PLSC 225 Principles of Crop Production	3	PLSC 225 Principles of Crop Production	3	[Program elective]
SOIL 210 Intro to Soil Science	3	SOIL 210 Intro to Soil Science	3	[Program elective]

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

<i>WSC Course</i>	<i>Cr</i>	<i>NDSU Equivalent</i>	<i>Cr</i>	<i>NDSU Gen Ed /NOTES</i>
		With successful completion of the A.S. degree, all lower division General Education credits including (Humanities & Fine Arts, Social & Behavioral Sciences, Wellness, Diversity, and Global Perspectives - 14 credits) are satisfied for a degree from NDSU.		

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English and Communication

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ENGL 110 Composition I	3	ENGL 110 College Composition I	3	Communication (C)
ENGL 120 Composition II	3	ENGL 120 College Composition II	3	Communication (C)
COMM 110 Fundamentals of Public Speaking	3	COMM 110 Fund of Public Speaking	3	Communication (C)

Math

WSC	Cr	NDSU Equivalent	Cr	NDSU Gen Ed /NOTES
MATH 165 Calculus I	4	MATH 165 Calculus I	4	Quantitative Reasoning
MATH 166 Calculus II	4	MATH 166 Calculus II	4	
MATH 265 Calculus III	4	MATH 265 Calculus III	4	Sub for MATH 259 Multivariate Calculus (3 cr)
MATH 266 Intro to Differential Equations	4	MATH 266 Intro to Differential Equations	3	
MATH 210 Elementary Statistics	3	STAT 330 Introductory Statistics	3	

Sciences, and Engineering

WSC Course	Cr	NDSU Equivalent	Cr	NDSU Gen Ed /NOTES
BIOL 150 I/L General Biology I/L	4	BIOL 150/L General Biology I/L	4	
BIOL 215/L Genetics/Lab	4	BIOL 315/L Genetics/Lab	4	[Program elective]
BIOL 204/L Human Anatomy/L		BIOL 220 Human Anatomy and Physiology/L	4	[Program elective]
CHEM 121 General Chemistry I L/L	5	CHEM 121/L General Chemistry I/L	3/1	Science & Technology (S)
CHEM 122 General Chemistry II L/L	5	CHEM 122/L General Chemistry II/L	3/1	Science & Technology (S)
CSCI 122 or CSCI 160 Visual BASIC/Computer Sci I	3/4	CSCI 122 (Vis Basic)/ CSCI 160 (Comp Sci I)	3/4	[Program elective, choose one]
ENGR 101 Graphical Communication	3	ME 212 Fund of Visual Comm for Engineers	3	
		ME 221 Engineering Mechanics I	3	Available online through NDSU
		ME 222 Engineering Mechanics II	3	Available online through NDSU
		ME 223 Mechanics of Materials	3	Available online through NDSU – [Program elective]
MICR 202/L Microbiology	4	MICR 202/L Introductory Microbiology	3	[Program elective]
PHYS 252/L University Physics II/L	5	PHYS 252/L University Physics II/L	5	

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