

**MINNESOTA STATE COLLEGES AND
UNIVERSITIES*
ARTICULATION AGREEMENT
BETWEEN**

**Minnesota West Community & Technical College
AND
South Dakota State University**

*The Board of Trustees of the Minnesota State Colleges and Universities is authorized by Minnesota Statutes, Chapter 136F to enter into Agreements and has delegated this authority to colleges and universities.

This Agreement is entered into between Minnesota West Community & Technical College (MN West) (hereinafter sending institution), and South Dakota State University (SDSU) (hereinafter receiving institution).

The sending institution has established an **Agriculture-Plant Science GIS/GPS, A.S.** (hereinafter sending program), and the receiving institution has established a **B.S. in Precision Agriculture** (hereinafter receiving program), and will facilitate credit transfer and provide a smooth transition from one related program to another. It is mutually agreed:

Admission and Graduation Requirements

- A. The receiving institution's admission and program admission requirements apply to both direct entry students and to students who transfer under this agreement.
- B. Students must fulfill the graduation requirements at both institutions.
- C. Students must complete the entire sending program and meet the receiving institution's admission requirements for the agreement to apply.

Transfer of Credits

- A. The receiving institution will accept 60 credits from the sending program. A total of 73 credits remain to complete the receiving program.
- B. Courses will transfer as described in the attached Program Articulation Table.

Implementation and Review

- A. The Chief Academic Officers or designees of the parties to this agreement will implement the terms of this agreement, including identifying and incorporating any changes into subsequent agreements, assuring compliance with system policy, procedure and guidelines, and conducting a periodic review of this agreement.
- B. This Articulation Agreement is effective on 08/15/2019 and shall remain in effect until the end date of 08/15/2024 unless terminated or amended by either party with 90 days prior written notice.
- C. The college and university shall work with students to resolve the transfer of courses should changes to either program occur while the agreement is in effect.
- D. This Articulation Agreement will be reviewed by both parties within six months of the end date.

February 24, 2021

PROGRAM ARTICULATION TABLE

	College (sending)	University (receiving)
Institution	MN West	SDSU
Program name	Agriculture – Plant Science GIS/GPS	Precision Agriculture
Award Type (e.g., AS)	AS	BS
Credit Length	60	120
CIP code (6-digit)		
Describe program admission requirements (if any)		

Instructions

- List all required courses in both academic programs.
- MnTC goal areas transfer to the receiving institution according to the goal areas designated by the sending institution.
- Do not indicate a goal area for general education courses that are not part of the MnTC.
- For restricted or unrestricted electives, list number of credits.
- Credits applied: the receiving institution course credit amount may be more or less than the sending institution credit amount. Enter the number of credits that the receiving institution will apply toward degree completion.
- Show equivalent university-college courses on the same row to ensure accurate DARS encoding.
- Equiv/Sub/Wav column: If a course is to be encoded as equivalent, enter Equiv. If a course is to be accepted by the university as a “substitution” only for the purposes of this agreement, enter Sub. If a course requirement is waived by the receiving institution, enter Wav. If a course is to be accepted by the university as a MnTC goal area, restricted elective or unrestricted elective, leave the cell blank.

(To add rows, place cursor outside of the end of a row and press enter.)

SECTION A - Minnesota Transfer Curriculum-General Education

College (sending)			University (receiving)			
course prefix, number and name	Goal(s) ¹	Credits	course prefix, number and name	Goal(s) ¹	Credits Applied	Equiv Sub Wav
Minnesota Transfer Curriculum-General Education						
ENGL 1101, Composition I		3	ENGL 101, Composition I	SGR #1	3	
SPCH 1101, Introduction to Speech		3	SPCM 101, Fundamentals of Speech	SGR #2	3	
ECON 2201, Prin. of Macroeconomics		3	ECON 202, Prin. of Macroeconomics	SGR #3	3	Sub
GEOG 1100, Introduction to Geography		3	GEOG 101, Introduction to Geography	SGR #3	3	Sub
PHIL 1101, Introduction to Philosophy		3	PHIL 100, Introduction to Philosophy	SGR #4	3	
PHIL 2201, Introduction to Ethical Theory		1	PHIL 100T, Philosophy Transfer Elective		1	
PHIL 2202, General Applied Ethics		1	PHIL 100T, Philosophy Transfer Elective		1	
PHIL 2205, Business Ethics		2	PHIL 100T, Philosophy Transfer Elective		2	
MATH 1111, College Algebra		3	MATH 114, College Algebra	SGR #5	3	
BIOL 1110, Principles of Biology I		4	BIOL 151/151L, General Biology I & Lab	SGR #6	4	
BIOL 2230, Plant Biology		4	BOT 201/201L, General Botany & Lab	SGR #6	4	
CHEM 1101, General Inorganic Chemistry I		5	CHEM 112/112L, General Chemistry I & Lab		5	
MnTC/General Education Total		35				

Special Notes, if any:

¹ MnTC goal areas transfer to the receiving college/university according to the goal areas designated by the sending college/university

SECTION B - Major, Emphasis, Restricted and Unrestricted Electives or Other

(pre-requisite courses, required core courses, required courses in an emphasis, or electives (restricted or general) within the major). Restricted electives (in Major) fulfill a specific requirement within a major. Example A: "Chose two of the following three courses;" Example B: A Biology degree may require 40 science credits (20 credits of required courses + 20 credits of listed related courses, such as botany, genetics, sociobiology, etc. which students can select).

Major, Emphasis, Restricted, Unrestricted Electives or Other Courses				
AGRI 1102, Principles of Agronomy	3	PS 103/103L, Crop Production and Lab	3	
AGRI 1103, Introduction to Soil Science	3	PS 213/213L, Soils and Lab	3	
AGRI 2202, Weed Control	3	PS 210/210L, Turf/Weed Management for Horticulture	3	
AGRI 2203, Soil Fertility & Fertilizers	3	PS 100T, Plant Science Transfer Elective	3	
AGRI 2204, GIS/GPS	3	PRAG 203, Introduction to Precision Agriculture	3	
AGRI 2212, Corn & Soybean Production	3	PS 100T, Plant Science Transfer Elective	3	
Unrestricted electives (7 credits). Suggest taking the following to fulfill SDSU requirements. ENGL 1102, Composition II PHYS 1100, Survey of Physics & Lab	3 4	ENGL 201, Composition II PHYS 101/101L, Survey of Physics & Lab	3 4	Sub
Major, Emphasis, Unrestricted Electives Total	25	Total College Credits Applied (sum of sections A and B)	60	



SECTION C - Remaining University (receiving) Requirements

List major requirements & required support courses here	course prefix, number and name		Credits
	SGR Goal #4, Arts/Humanities Elective. Select a course from the list in the SDSU catalog. Course prefix cannot be PHIL.		3
ABS 475/475L, Integrated Natural Resource Mgmt & Lab		3	
ACCT 210, Principles of Accounting I or AGEC 271, Farm and Ranch Management or AGEC 354, Agricultural Marketing and Prices		3	
AST 273/273L, Microcomputer Applications in Ag & Lab		3	
AST 313/313L, Farm Machinery Systems Management & Lab		3	
AST 333/333L, Soil and Water Mechanics & Lab		3	
AST 390, Seminar or PS 490, Seminar		1	
AST 412/412L, Fluid Power Technology & Lab		3	
AST 426/426L, Emerging Technologies in Agriculture & Lab or PRAG 428, Use of Soil and Plant Sensors in Crop Production		3	
AST 494, Internship or PS 494, Internship		1	
CHEM 120/120L, Elementary Organic Chemistry and Lab		4	
ET 210-210L, Introduction to Electronic Systems		4	
PRAG 304/304L, Elec. Diagnostics for Farm Machinery & Lab		3	
PRAG 340, Climate Risk Management with Precision Ag		3	
PRAG 345/345L, Principles and Implications of Chemical Application Systems & Lab		3	
PRAG 410/410L, Soil Geography and Land Use Interp & Lab or PS 462/462L, Environmental Soil Management & Lab		3	
PRAG 423, Soil Fertility and Plant Nutrient Management		3	
PRAG 427, Precision Ag Data Mapping		2	
PRAG 440/440L, Crop Mgmt with Precision Farming & Lab		3	
PS 223/223L, Principles of Plant Pathology & Lab		3	
PS 405/405L, Entomology & Lab or PS 407/407L, Insect Pest Management & Lab		3	
PS 445/445L, Weed Science & Lab		3	
STAT 281, Introduction to Statistics		3	
STAT 383, Geospatial Data Analysis		3	
Crop Production Elective. Complete four credits from the following three courses. PRAG 424, Wheat Production (2 credits) PRAG 425, Soybean Production (credits) PRAG 426, Corn Production (2 credits)		4	
Note: Student must earn at least a C grade in each major required class and a cumulative GPA of 2.5 or higher in major required classes. See SDSU catalog for details.			
Total Remaining University Credits		73	

SECTION D - Summary of Total Program Credits

College (sending) Credits		University (receiving) Requirements	
MnTC/General Education	35		
Major, Emphasis, Unrestricted Electives or Other	25		
Total College Credits	60	Total College Credits Applied	60
		Remaining credits to be taken at the university (receiving institution)	73
		Total Program Credits	133

Special Notes, if any: B.S. in Precision Agriculture at SDSU requires a minimum of 120 credits, but student would need at least 133 credits to earn both the A.S. from MN West and the B.S. from SDSU.

College	Name	Signature	Date
Chief Academic Officer			
<u>Dean of Ag & Business</u>	Paul Lanoue		2-24-2021
Title			
University	Name	Signature	Date
Chief Academic Officer			
Provost & Vice President For Academic Affairs	Dennis Hedge		5/17/21
Title			