

Minnesota Articulated College Credit (ACC) Agreement

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Agreement Name: **Agronomy**

Agreement Last Reviewed: **January 2023**

Next Review Date: **January 2025**

College Courses			
Class	Title	School	Credits
AGRI 1102	Principles of Agronomy	Minnesota West Community & Technical College	1.0 of 2.0
AGRI 1660	Introduction to Agronomy	Ridgewater College	2.0 of 3.0
PLSC 1300	Agronomy I	South Central College	1.0 of 2.0

Curriculum Content Objectives

To receive credit, students will be introduced to 100% of the following content objectives:

1. Describe the field of agronomy
2. Describe human dependence on plants
3. Explain the photosynthetic process
4. Explain respiration and metabolism
5. Identify the anatomy of a seed
6. Describe germination of monocot
7. Describe growth stages and development of monocot (corn/grass)
8. Describe monocot anatomy
9. Describe seed dormancy
10. Describe germination of dicot
11. Describe growth stages and development of dicot
12. Describe dicot anatomy
13. Explain reproduction and seed development
14. Explain plant breeding
15. Explain seed production/management
16. Describe plant types and classifications
17. Describe genetic engineering
18. Describe GMO hybrids & varieties
19. Describe tissue culture
20. Explain plant nitrogen cycle
21. Explain plant carbon cycle
22. Review history of agriculture as it relates to agronomy
23. Provide brief overview/definition (general concepts) of the USDA and farm bill

Suggested Assignment and Information

See additional assignments and information you may want to use courtesy of Nate Lundgren of Ridgewater College regarding the Farm Bill.

- 5 Thing to Watch with the Farm Bill
- Agricultural Subsidies
- Budget Issues Shaping Farm Bill
- Legislative Report for AG
- Problem with Food Subsidy – Opinion
- What is the Farm Bill
- Farm Bill Assignment

Assessments

Students must achieve no less than 80% or B for a final grade in the high school course to receive ACC.

ACC Concept

Through Articulated College Credit (ACC), specific college curriculum content goals and assessments are embedded in participating high school career and technical education (CTE) programs as specified in this agreement. Relevant knowledge, skills, and standards are taught by qualified CTE high school instructor(s) in one or more high school course. ACC is awarded if the student meets the college equivalency standards and later enrolls in the college(s) listed below requiring the course in a specific program.