



South Central College
Program Design

AAS 3166 Production Agriculture

Program Information

Instructional Level Associate Degree

Career Cluster Agriculture, Food & Natural Resources

Description

Emphasis Areas available include: Agronomy, Animal Science, Diversified, Sustainable Microfarming, Viticulture.

Program emphasis areas provide learners with an opportunity for study in the areas of plant and animal production. The crop production areas consist of selection, planning, management, harvesting, and marketing. Areas of soil science are also studied focusing on fertility, conservation, and tillage. The animal production study consists of areas in breeding, feeding, care, management, and marketing. In addition, courses in farm machinery, buildings and structures, farm management, farm accounting, farm business analysis, and farm business reorganization provide a broad-based program of study. Learners will be required to keep a complete farm record for analysis and interpretation. An on-the-farm internship will be required. The A.A.S. Degree includes 15 credits of Liberal Arts and Sciences.

Program Admission Dates (Fall and/or Spring)

Fall and Spring

Program Location (North Mankato and/or Faribault)

North Mankato

Program Student Learning Outcomes

- 1 Develop and assess a soil and crop management plan and/or prepare and assess a livestock management plan.
- 2 Perform agricultural production operations
- 3 Utilize a comprehensive farm business plan
- 4 Demonstrate approved ag management practices
- 5 Demonstrate effective participation in an agribusiness team

Program Configurations

Fall Start

Credits

| | |
|-------------------------|-----------|
| Technical Course | 57 |
| Liberal Arts & Sciences | 15 |
| Total Credits | 72 |

Details on Electives and Variables

| Course # | Course Title | Credits | Function |
|----------|--|---------|----------------------------|
| | Agribusiness Electives - Emphasis Areas: 17 Credits from Approved Options | 17 | Technical Course |
| | LAS Electives - 15 credits from 3 of the 10 MNTC Goal Areas | 15 | Liberal Arts & Sciences |

Year 1 - Fall Semester

| Course # | Course Title | Credits | Function |
|-----------|---|---------|----------------------------|
| SGAG 1000 | Agribusiness Orientation | 1 | Technical Course |
| AGEC 1100 | Introduction to Agricultural Economics | 3 | Technical Course |
| PLSC 1100 | Soils I | 3 | Technical Course |
| PLSC 1300 | Agronomy I | 2 | Technical Course |
| ANSC 1100 | Livestock Production Principles | 3 | Technical Course |
| | Agribusiness Electives | | Technical Course |
| | LAS Electives | | Liberal Arts & Sciences |

Year 1 - Spring Semester

| Course # | Course Title | Credits | Function |
|-------------------|---|---------|----------------------------|
| AGEC 1200 | Principles of Farm Records | 3 | Technical Course |
| MEAG 1500 or 1510 | Facility Maintenance OR Facility Operations Maintenance | 3 | Technical Course |
| AGRI 2780 | Agribusiness Internship (should align to your emphasis area, consult your advisor) | 2 | Technical Course |
| | Agribusiness Electives | | Technical Course |
| | LAS Electives | | Liberal Arts & Sciences |

Year 1 - Summer

| Course # | Course Title | Credits | Function |
|-----------|---|---------|------------------|
| AGRI 2780 | Agribusiness Internship (should align to your emphasis area, consult your advisor) | 9 | Technical Course |

Year 2 - Fall Semester

| Course # | Course Title | Credits | Function |
|-----------|--------------------------------|---------|-------------------------|
| AGEC 2400 | Commodity Marketing Principles | 3 | Technical Course |
| AGEC 2500 | Agribusiness Transfer & Law | 2 | Technical Course |
| | Agribusiness Electives | | Technical Course |
| | LAS Electives | | Liberal Arts & Sciences |

Year 2 - Spring Semester

| Course # | Course Title | Credits | Function |
|-----------|-----------------------------------|---------|-------------------------|
| AGEC 2250 | Farm Business Planning & Analysis | 4 | Technical Course |
| AGRI 2700 | Agricultural Technology Seminar | 2 | Technical Course |
| | Agribusiness Electives | | Technical Course |
| | LAS Electives | | Liberal Arts & Sciences |

Program Course List

| Number | Title | Credits | Pre/Corequisites |
|-----------|--|---------|--|
| AGBS 1100 | Agriculture Selling Skills | 3 | None |
| AGBS 2015 | Commercial Driver's License | 1 | a valid MN Class D driver's license 18 years of age |
| AGBS 2990 | International Field Study | 3 | None |
| AGBS 2995 | Individualized Study/Special Problems | 1 | Successful completion of 2 full semesters or by special arrangement. |
| AGEC 1100 | Introduction to Agricultural Economics | 3 | None |
| AGEC 1200 | Principles of Farm Records | 3 | none |
| AGEC 2250 | Farm Business Planning & Analysis | 4 | Completion of Farm Records is highly recommended. |
| AGEC 2400 | Commodity Marketing Principles | 3 | AGEC 1100 |
| AGEC 2450 | Commodity Marketing Strategies | 2 | AGEC 2400, AGECE 1100 |
| AGEC 2550 | Agribusiness Transfer & Law | 3 | None. |
| AGEC 2650 | Alternative Agriculture and Direct Marketing | 3 | None |
| AGRI 2780 | Agribusiness Internship | 2 | Instructor Permission |
| ANSC 1105 | Beef Production | 3 | |
| ANSC 1200 | Livestock Lab | 2 | |
| ANSC 1205 | Ruminant Animal Production | 3 | None |
| ANSC 1305 | Cattle Artificial Insemination | 1 | |
| ANSC 2100 | Principles of Animal Nutrition | 3 | |

| | | | |
|------------------|---|----------|---|
| PLSC 1100 | Soils I | 3 | None |
| PLSC 1300 | Agronomy I | 2 | No prerequisites for this class |
| SGAG 1000 | Agribusiness Orientation | 1 | Enrolled in the Agribusiness Program |
| AGRI 1810 | Intro to Sustainable Microfarming | 1 | None. |
| AGRI 2700 | Agricultural Technology Seminar | 2 | AGEC 2400 or Instructor Permission |
| ANSC 1100 | Livestock Production Principles | 3 | |
| MEAG 1500 | Facility Maintenance | 3 | None. |
| MEAG 1610 | Ag Equipment Maintenance | 3 | None |
| MEAG 1700 | Agricultural Industry Equipment | 3 | None |
| MEAG 2200 | Planning Farmstead Environment | 3 | None |
| PLSC 1105 | Forages and Pasture Management | 2 | None |
| PLSC 1200 | Soils II | 3 | PLSC 1100 Soils I |
| PLSC 1205 | Precision Agriculture | 3 | |
| PLSC 1400 | Agronomy II | 3 | PLSC 1300 |
| PLSC 2000 | Commercial Pesticide License Training | 1 | |
| PLSC 2700 | Advanced Agronomy | 3 | PLSC 1300 & PLSC 1400 |
| SWPR 1000 | Introduction to U. S. Pork Production | 2 | None |
| SWPR 1050 | Swine A.I. | 1 | none |
| SWPR 1200 | Swine Breeding Stock Management | 3 | None |
| SWPR 1300 | Nursery Finish Management | 3 | None |
| SWPR 1500 | Swine Diseases | 2 | |
| SWPR 2000 | Swine Records and Analysis | 3 | None |
| VITI 1111 | Introduction to Viticulture and Vineyard Establishment | 3 | None |
| VITI 1112 | Botanical Viticulture | 4 | None |
| VITI 1113 | Winter Viticulture Technology | 2 | VITI 1111 or instructor permission |
| VITI 1114 | Spring Viticulture Technology | 2 | VITI 1111 or instructor permission |
| VITI 1115 | Summer/Fall Viticulture Technology | 2 | VITI 1111 or instructor permission. |
| VITI 1190 | Viticulture Safety | 1 | None |
| VITI 1211 | Integrated Pest Management | 2 | None |
| VITI 1213 | Regional Vineyard Management | 2 | VITI 1111 and one of the following VITI 1113, VITI 1114, VITI 1115 |
| VITI 1293 | Soils for Viticulture | 3 | None |