



South Central College Program Design

DIP 3162 Farm Production, Management, and Operations

Program Information

Instructional Level Technical Diploma

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.

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 production management practices
- 5 Demonstrate effective participation in an agribusiness team
- 6 Demonstrate an understanding of commodity marketing for agricultural products

Program Configurations

Fall Start

Credits

Technical Course

72

Details on Electives and Variables

Course #	Course Title	Credits	Function
	Agribusiness Electives - Emphasis Areas: 23 Credits from Approved Options	23	Technical Course

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

Year 1 - Spring Semester

Course #	Course Title	Credits	Function
AGEC 1200	Principles of Farm Records	3	Technical Course
MEAG 1500	Facility Maintenance	3	Technical Course
AGRI 2780	Agribusiness Internship (should be in your emphasis area, consult with your advisor)	2	Technical Course
	Agribusiness Electives		Technical Course
AGRI 1850	Employer/Employee Relations	3	Technical Course

Year 1 - Summer

Course #	Course Title	Credits	Function
AGRI 2780	Agribusiness Internship (should be in your emphasis area, consult with your advisor)	9	Technical Course

Year 2 - Fall Semester

Course #	Course Title	Credits	Function
MEAG 2200	Planning Farmstead Environment	3	Technical Course
AGEC 2400	Commodity Marketing Principles	3	Technical Course
	Agribusiness Electives		Technical Course
AGEC 2550	Agribusiness Transfer & Law	3	Technical Course

Year 2 - Spring Semester

Course #	Course Title	Credits	Function
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AGEC 2250	Farm Business Planning & Analysis	4	Technical Course
AGEC 2450	Commodity Marketing Strategies	2	Technical Course
AGRI 2700	Agricultural Technology Seminar	2	Technical Course
	Agribusiness Electives		Technical Course

Program Course List

Number	Title	Credits	Pre/Corequisites
AGBS 1100	Agriculture Selling Skills	3	None
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.
AGRI 1810	Intro to Sustainable Microfarming	1	None.
AGRI 1850	Employer/Employee Relations	3	None
AGRI 2700	Agricultural Technology Seminar	2	AGEC 2400 or Instructor Permission
AGRI 2780	Agribusiness Internship	2	Instructor Permission
ANSC 1100	Livestock Production Principles	3	
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	
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 1100	Soils I	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 1300	Agronomy I	2	No prerequisites for this class
PLSC 1400	Agronomy II	3	PLSC 1300
PLSC 2000	Commercial Pesticide License Training	1	
PLSC 2700	Advanced Agronomy	3	PLSC 1300 & PLSC 1400
SGAG 1000	Agribusiness Orientation	1	Enrolled in the Agribusiness Program
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