Course Selection:
Descriptions, Rationales and Rotations

The selection of courses is critical in the development of curriculum for the secondary agriculture program. The courses offered in the program and the subsequent rotation will have an impact on the recruitment and retention of students. Courses must be selected that meet the future career aspirations of students and reflect the agriculture, food, fiber, and natural resources of the community. Career Pathways can also be valuable in guiding course selection for the secondary agriculture program (see the following page for Career Pathways chart).

Career Pathways help students achieve their career ambitions and goals. The knowledge, skills, and attitudes attained through a sequence of coherent agriculture, food, and natural resources courses will help students be successful in their chosen life's work. Students may select one pathway or courses in several pathways that serve their particular interests. Career Pathways provide students with opportunities to pursue their interest in high school and lead to more concentrated studies in four year colleges/universities, two-year community colleges, and/or technical colleges/schools.

The first step involved in creating course offerings is to determine the number of courses and sections of entry-level classes that will be offered. Single teacher programs may offer one section of Agricultural Science I and one section of Agricultural Science II as pre-requisites for advanced agriculture courses. Multiple teacher departments may choose to offer multiple sections of Agricultural Science I and II and possibly horticulture or natural resource courses as a broader range of entry-level options for students. The Curriculum for Agricultural Science Education (CASE)-Introduction to Agriculture, Food, and Natural Resources course is another option for an entry-level course. Input from the program's advisory committee should be helpful in determining the appropriate options for entry-level courses in the local program.

The second step in developing course offerings is to determine which advanced courses to offer. Again the advisory committee should be consulted for input regarding the appropriate mix of advanced courses that should be offered to accommodate the needs and interests of potential students. Another resource for determining the appropriate mix is the self-reported career interests of students on the Preliminary Report of Agriculture Education Program (VA-2). Offering advanced courses on an alternating year basis allows students to enroll in a broader range of courses and allows more flexibility in scheduling.

Scheduling of all courses should minimize conflicts with required courses or other popular elective courses (e.g. band, music, etc.). It is especially important to schedule courses at times when most students are free to enroll. Scheduling entry-level courses during periods when large groups of students are committed to register for another class will reduce enrollment in agriculture education, which can have a carry-over effect for subsequent years.

A sample course rotation schedule for a single-teacher department with a 7-period day is included at the end of this chapter. Templates to use in your own planning are also included. In a multi-teacher department, all instructors should work together to plan the entire department's rotation and schedule. Each teacher should then complete a template for the appropriate daily schedule.

Revised – August 17, 2016

Agriculture, Food & Natural Resources Career Cluster

Cluster #01

Middle School Course	
016700 - Exploring Agriculture	
High School Core Career Education Courses Taken in Sequential Order	
Traditional Foundation Courses	***CASE Foundation Course***
016710 - Agricultural Science I (01.0000) 016760 - Agricultural Science II (01.0000)	016800 - Intro. to Agric., Food & Natural Resources (01.9999)

Courses within the designated Career Pathway (In Non-Sequential Order)

01.0101 Agricultural Business & Management Systems	01.0201 Agricultural Mechanics & Technology Systems	01.0601 Plant Science/ Horticulture Systems	01.0401 Food Science Systems	03.0101 Natural Resources Conservation Systems	01.0901 Animal Science Systems
Core Courses	***Core Courses***	***Core Courses***	***Core Courses***	***Core Courses***	***Core Courses***
016730 - Agricultural Management & Economics 016741 - Agricultural Sales & Marketing 016742 - Agricultural Communications	016720 - Agricultural Structures 016751 - Agricultural Power I 016752 - Agricultural Power II 016753 - Agricultural Machinery 016770 - Agricultural Construction	016761 - Crop Science 016763 - Floriculture 016764 - Landscaping 016765 - Greenhouse Operation & Management 016766 - Nursery Operation & Management 016767 – Turf Management	016790 - Food Science & Technology	016759 - Conservation of Natural Resources 016762 - Forestry Management	016711 - Animal Science 016743 - Biotechnology 016744 - Equine Science 016745 - Veterinary Science
	01.9999 CASE 016806 - Ag Power & Tech.	***01.9999 CASE*** 016802 - Princ. of Ag Science Plant 016803 - Animal & Plant Biotech	***01.9999 CASE*** 016805 - Food Science & Safety	***01.9999 CASE*** 016804 - Nat. Res. & Ecology	***01.9999 CASE*** 016801 - Princ. of Ag Science Animal 016803 - Animal & Plant Biotechnology
Elective Courses	***Elective Courses***	***Elective Courses***	***Elective Courses***	***Elective Courses***	***Elective Courses***
016780 - Supervised Agricultural Experience Co-op	016742 - Agricultural Communications 016780 - Supervised Agricultural Experience Co-op	016742 - Agricultural Communications 016780 - Supervised Agricultural Experience Co-op	016742 - Agricultural Communications 016780 - Supervised Agricultural Experience Co-op 096827 - Food Science (FCS)	016742 - Agricultural Communications 016780 - Supervised Agricultural Experience Co-op	016742 - Agricultural Communications 016780 – Supervised Agricultural Experience Co-op

All courses include classroom/laboratory instruction, Supervised Agricultural Experiences (SAE), and leadership training through the appropriate Career and Technical Student Organization (CTSO).

IRC and/or Technical Skill Assessments by Career Pathway

01.0101 Agricultural Business & Management Systems	01.0201 Agricultural Mechanics & Technology Systems	01.0601 Plant Science/ Horticulture Systems	01.0401 Food Science Systems	03.0101 Natural Resources Conservation Systems	01.0901 Animal Science Systems
MoASK Farm Management	MoASK Agricultural Mechanics	MoASK Agronomy Nursery /Landscaping Soils Floriculture Entomology Grasslands	MoASK Meats Poultry Dairy Foods	MoASK Forestry Soils Grasslands	MoASK Dairy Cattle Poultry Horse Livestock Meats MVMA-Animal Care Technology

Technical Skill Assessment (TSA ONLY)

01.0101 Agricultural Business & Management Systems	01.0201 Agricultural Mechanics & Technology Systems	01.0601 Plant Science/ Horticulture Systems	01.0401 Food Science Systems	03.0101 Natural Resources Conservation Systems	01.0901 Animal Science Systems
NOCTI Production Agriculture	NOCTI Agricultural Mechanics Production Agriculture	NOCTI Agricultrual Biotechnology Floricultural Floriculture-Greenhouse Forest Products & Processing Horticulture-Landscaping Production Agriculture	NOCTI Agricultural Biotechnology	NOCTI Agricultural Biotechnology Conservation Natural Resource Systems Production Agriculture	NOCTI Agricultural Biotechnology Animal Systems Production Agriculture Small Animal Science & Tech
CASE EOC	CASE EOC Ag Power & Technology	CASE EOC Princ. of Ag Sci- Plant Ani & Plnt Biotech	CASE EOC Food Science & Safety	CASE EOC Nat. Res. & Ecology	CASE EOC Princ. of Ag Sci- Animal Ani & Plnt Biotech

Developing a good relationship with guidance counselors can be mutually beneficial. Counselors who are fully informed about the purpose and benefits of the secondary agriculture program will generally work to minimize course scheduling conflicts, although some conflicts are unavoidable. Agriculture instructors should not assume that guidance counselors are knowledgeable of the goals and objectives of the Agricultural Education Program. Therefore, the agriculture instructor should periodically send information to the guidance counselor regarding the purposes, benefits, and accomplishments of the program. Developing a cordial and cooperative relationship with the guidance counselor should result in a win – win situation. Agriculture instructors should approach the relationship from the perspective of how they can help the guidance counselor while simultaneously benefiting the Agricultural Education Program.

Approved Secondary Agriculture Courses

The following courses are approved for the agriculture curriculum in secondary schools. Course descriptions and rationales may be customized by local programs to align with the school district's philosophy, projected needs of students, and the future needs of students to become useful citizens, workers, and family members.

Sample Descriptions and Rationales

(**CD** – Core Data code, **CIP** – Classification of Instructional Programs code)

Junior High/Middle School Course – One period per day for six weeks, one quarter, or one semester.

1. **Exploring Agriculture –** A general literacy course designed to introduce and apply life skills related to one of America's basic industries - agriculture. Units of instruction will be selected from Introduction to Agriculture, Plant Science, Animals in Society, Products from Agriculture, Natural Resources and Conservation, Leadership and Personal Development, and Basic Home and Farmstead Safety and Maintenance. (**CD** 016700)

   Course Rationale – Agriculture is one of America's basic industries, employing over 20% of the nation's workforce. Agriculture encompasses the food, fiber, conservation and natural resource systems. Making students aware of the diversity of the possible careers within this broad field of agriculture helps them to become an informed productive citizen in our society.

Entry Level Secondary Agriculture Courses

The "program of instruction" for secondary students should involve both depth and breadth and be organized with an entry-level sequence in combination with advanced courses in agriculture. The entry-level sequence should begin with a two-semester course. A second prerequisite course should be offered unless unusual conditions exist at the local level.

1. **Agricultural Science I** – A course designed for instruction in animal science, agricultural mechanics, career exploration, leadership and personal development, and supervised agricultural experience. Units may include agribusiness, natural resources, and food science.(**CD** 016710, **CIP** 01.0000)

   Course Rationale – Agriculture encompasses the food, fiber, conservation and natural resource systems, employing over 20% of the nation's workforce. An understanding of careers, leadership, and basic principles in the animal industry provides a sound background for the agricultural industry.

2. **Agricultural Science II** – A course designed for instruction in plant and crop science, soils, entomology, horticulture, and forestry, and additional instruction in agricultural mechanics, career development, leadership, and supervised agricultural experience. (**CD** 016760, **CIP** 01.0000)

   Course Rationale – Agriculture encompasses the food, fiber, conservation and natural resource systems, employing over 20% of the nation's workforce. An understanding of the careers, leadership, and basic principles in the agriculture plant and food industry provides a sound background to pursue an agricultural career.

3. **CASE-Introduction to Agriculture, Food, and Natural Resources –** This beginning course in the CASE sequence of courses introduces students to the four pathways that are offered through CASE. The course provides a brief overview of animal science, plant science, natural resources, and agricultural technology and systems. In addition, students will explore FFA, leadership, Supervised Agricultural Experience, science applications, and career and post-secondary opportunities. (**CD** 016800, **CIP** 01.9999)

   Course Rationale – Agriculture encompasses the food, fiber, conservation and natural resource systems, employing over 20% of the nation's workforce. An understanding of the careers, leadership, and basic scientific concepts in the agriculture industry provides a sound background to pursue an agricultural career.

Advanced Secondary Agriculture Courses

The following specialized courses are for students who have successfully completed or are concurrently enrolled in Agricultural Science I and/or II Courses. All advanced courses should include instruction in leadership development and supervised agricultural experience.

1. **Agribusiness Sales and Marketing and Management** – This course includes human relations, personal inventory, careers in selling, and other experiences necessary for employment in agribusiness engaged in marketing, purchasing, storing, grading, and transporting supplies and products. (**CD** 016741, **CIP** 01.0101)

   Course Rationale – Agriculture encompasses the food, fiber, conservation and natural resource systems, employing over 20% of the nation's workforce. Application of economics, sales, marketing, and human relation skills are essential for entry-level employment in agribusiness.

2. **Agricultural Communications and Leadership** – This course will enable students to develop the knowledge, attitudes and skills to demonstrate positive leadership for agriculture. Areas of focus include public speaking, extemporaneous speaking, impromptu speaking, written communication, meeting people, good first impressions, personal goals, team work, team/organizational goals, organizing groups to take action and evaluation of team/organizational actions. (**CD** 016742, **CIP** 01.0101)

   Course Rationale – Agriculture encompasses the food, fiber, conservation and natural resource systems, employing over 20% of the nation's workforce. Leadership and communication skills are required for individual success in all agricultural careers, and the agriculture industry needs spokespersons and leaders to represent it in an increasingly urban population.

3. **Agricultural Construction** – This course utilizes welding in the development and construction of major metal and wood projects. (**CD** 016770, **CIP** 01.0201)

   Course Rationale – Agriculture encompasses the food, fiber, conservation and natural resource systems, employing over 20% of the nation's workforce. Advanced skills in welding, woodworking, and project construction provide students with entry-level agricultural construction skills.

4. **Agricultural Machinery** – This course includes selection, operation, adjustment, maintenance and repair of machinery commonly used on the farm. (**CD** 016753, **CIP** 01.0201)

   Course Rationale – Agriculture encompasses the food, fiber, conservation and natural resource systems, employing over 20% of the nation's workforce. The safe operation, adjustment and maintenance of agricultural equipment are essential skills for students pursuing a career in agricultural mechanics.

5. **Agricultural Management and Economics** – This course combines farm management, agribusiness management, and content based on agricultural economic principles. Computer applications are included to enhance student understanding and utilization of current technology. Units include human relations, verbal and written communication, microcomputers in agriculture, economic principles, farm planning, agribusiness functions, and business management. (**CD** 016730, **CIP** 01.0101)

   Course Rationale – Agriculture encompasses the food, fiber, conservation and natural resource systems, employing over 20% of the nation's workforce. Application of economic principles and business management to the agriculture industry provides the basis for financial success of an agribusiness.

6. **Agricultural Power I** – This course develops skills in the maintenance, repair, adjustment, and overhaul of small engines. (**CD** 016751, **CIP** 01.0201)

   Course Rationale – Agriculture encompasses the food, fiber, conservation and natural resource systems, employing over 20% of the nation's workforce. Small engines provide development of mechanical skills and principles needed to pursue a career in agricultural mechanics.

7. **Agricultural Power II** – This is a study of the basic principles of power transmissions, hydraulic systems, and tractor engines. Tractor operation, safety practices, and maintenance will receive major emphasis. Tractor overhaul will be included where feasible. (**CD** 016752. **CIP** 01.0201)

   Course Rationale – Agriculture encompasses the food, fiber, conservation and natural resource systems, employing over 20% of the nation's workforce. Advanced principles and operations of transmissions, hydraulic systems, and tractor engines provide entry-level skills in agricultural mechanics.

8. **Agricultural Structures** – This course includes electrical wiring, electrical motors, concrete masonry, plumbing and sewage disposal, farm fences, product handling and processing equipment, and farm buildings. (**CD** 016720, **CIP** 01.0201)

   Course Rationale – Agriculture encompasses the food, fiber, conservation and natural resource systems, employing over 20% of the nation's workforce. Basic construction skills and knowledge in electricity, plumbing, concrete, and masonry are necessary for the building of agricultural structures.

9. **Animal Science** – Advanced study in animal production, management, marketing, nutrition, breeding, production records, selection, animal health, waste management, and biotechnology may be included in this course. (**CD** 016711, **CIP** 01.0901)

   Course Rationale – Agriculture encompasses the food, fiber, conservation and natural resource systems, employing over 20% of the nation's workforce. Scientific principles in animal nutrition, breeding, selection, marketing, and waste management are essential for students with an interest in animals or animal-related careers.

10. **Biotechnology –** This course includes topics in the history of biotechnology, the principles of scientific research, cell biology, genetic transfer, genetically modified organisms, cloning, and the application of biotechnology to plant science, animal science, medicine, the food industry, and ecology. Consumer issues, ethics, and careers are also addressed. (**CD** 016743, **CIP** 01.0901)

    Course Rationale – Agriculture encompasses the food, fiber, conservation and natural resource systems, employing over 20% of the nation's workforce. Biotechnology and its applications play an important role in plant and animal agriculture as well as theenvironment. Students interested in advancing agriculture through scientific research learn essential skills to prepare for that role.

11. **CASE-Principles of Agricultural Science-Animal** – This foundations course is designed to be the second course in the CASE sequence for the Animal Systems pathway. It provides activities, projects, and problems based on the history and use of animals in society, handling and safety, cells and tissues, nutrition, reproduction, genetics, animal health, and animal products and marketing. In addition, students will continue to develop leadership potential through the FFA, establish a Supervised Agricultural Experience Program, and explore career opportunities. (**CD** 016801, **CIP** 01.9999)

    Course Rationale -- Agriculture encompasses the food, fiber, conservation and natural resource systems, employing over 20% of the nation's workforce. Understanding the scientific concepts of animal sciences is crucial to preparing for the science-based careers in today's agriculture.

12. **CASE-Principles of Agricultural Science-Plant** -- This foundations course is designed to be the second course in the CASE sequence for the Plant Systems pathway. It provides activities, projects, and problems based on the role of plants in society, soil properties, soil chemistry, soilless growing systems, plant anatomy and physiology, taxonomy, growth requirements, reproduction, crop production and marketing, and plant health. In addition, students will continue to develop leadership potential through the FFA, establish a Supervised Agricultural Experience Program, and explore career opportunities. (**CD** 016802, **CIP** 01.9999)

    Course Rationale -- Agriculture encompasses the food, fiber, conservation and natural resource systems, employing over 20% of the nation's workforce. Understanding the scientific concepts of plant sciences is crucial to preparing for the science-based careers in today's agriculture.

13. **CASE-Animal and Plant Biotechnology** – This is a specialized course designed to be the third course in the CASE sequence for either the Animal or Plant Systems pathway. It provides rigorous activities, projects, and problems in scientific concepts of biotechnology. Students become proficient at micropipetting, bacterial cultures and transformations, electrophoresis, and polymerase chain reaction. Students will continue to develop leadership potential through the FFA, maintain/expand a Supervised Agricultural Experience Program, and explore career opportunities. (**CD** 016803, **CIP** 01.9999)

    Course Rationale -- Agriculture encompasses the food, fiber, conservation and natural resource systems, employing over 20% of the nation's workforce. Technical skills in biotechnology are required for research and for the science-based careers in today's agriculture.

14. **CASE - Agriculture Power and Technology** - This course is designed to prepare students for the wide array of career opportunities in agricultural engineering. Students are immersed in inquiry-based exercises that tie in the math and science of agricultural mechanics and engineering. (**CD** 016806, **CIP** 01.0201)

    Course Rationale - Agriculture encompasses the food, fiber, conservation and natural resource systems, employing over 20% of the nation's workforce. Power and science technology provide development of mechanical skills and principles needed to pursue a career in agricultural mechanics.

14. **CASE - Food Science and Safety** - This course is a specialization course in the CASE Program of Study. Students will complete hands-on activities, projects, and problems that simulate actual concepts and situations found in the food science and safety industry, allowing students to build content knowledge and technical skills. Students will investigate areas of food science including food safety, food chemistry, food processing, food product development, and marketing. (**CD** 016805, **CIP** 01.0401)

    Course Rationale - Agriculture encompasses the food, fiber, conservation and natural resource systems, employing over 20% of the nation's workforce. Food chemistry, microbiology, additives, sanitation, quality control, and processing are all essential in providing society with a safe and plentiful food supply.

15. **CASE - Natural Resource and Ecology** - This course provides students a variety of experiences that in the fields of natural resources and ecology. Students will explore hands-on projects and activities while studying topics such as land use, water quality, stewardship, and environmental agencies. Study of the natural world including biomes, land, air, water, energy, use and care as well as a focus on issues surrounding man's interaction with the Earth will be addressed in this course. (**CD** 016804, **CIP** 03.0101)

    Course Rationale - Agriculture encompasses the food, fiber, conservation and natural resource systems, employing over 20% of the nation's workforce. Management of our natural resources, wildlife, and ecological systems is an essential component in sustaining our environment.

16. **Conservation of Natural Resources –** This course prepares students for activities in the conservation and/or improvement of natural resources such as oil, water, air, forests, fish and wildlife for economic and recreational purposes. (**CD** 016759, **CIP** 03.0101)

    Course Rationale – Agriculture encompasses the food, fiber, conservation and natural resource systems, employing over 20% of the nation's workforce. Management of our natural resources, wildlife, and ecological systems is an essential component in sustaining our environment.

17. **Crop Science** – Units in this course include growing systems, plant selection, production practices, harvesting, storing, marketing, fertilization, soils, conservation, chemicals, integrated pest management, water quality, and biotechnology. (**CD** 016761, **CIP** 01.0301)

    Course Rationale – Agriculture encompasses the food, fiber, conservation and natural resource systems, employing over 20% of the nation's workforce. Scientific principles in plant nutrition, breeding, selection, harvesting, soil management, and water quality are essential for students with an interest in agronomy and natural resource-related careers.

19. **Equine Science** – This course presents topics including conformation and selection, genetics and reproduction, health and soundness, nutrition, equipment and facilities, safe handling techniques, horse psychology, training methods, and career opportunities. (**CD** 016744, **CIP** 01.0901)

    Course Rationale **–** Agriculture encompasses the food, fiber, conservation and natural resource systems, employing over 20% of the nation's workforce. The horse industry is a strong segment of Missouri agriculture, and there is a need for employees who have knowledge and skills in selecting, breeding, training and caring for horses.

20. **Floriculture** – This course includes the production, arrangement and retailing of flowers. It includes fresh, silk, or dried flowers to be used in the design of corsages, wedding bouquets, table flower arrangements, and seasonal holiday decorations. (**CD** 016763, **CIP** 01.0601)

    Course Rationale – Agriculture encompasses the food, fiber, conservation and natural resource systems, employing over 20% of the nation's workforce. Basic skills in production, arrangement, and retailing of flowers are necessary for students having a career interest in horticulture.

21. **Food Science and Technology** – This course includes the areas of food chemistry and nutrition, food additives, food packaging and labeling, evaluation of foods, food microbiology, food processing, food fermentation, principles of sanitation and quality control. (**CD** 016790, **CIP** 01.0401)

    Course Rationale – Agriculture encompasses the food, fiber, conservation and natural resource systems, employing over 20% of the nation's workforce. Food chemistry, microbiology, additives, sanitation, quality control, and processing are all essential in providing society with a safe and plentiful food supply.

22. **Forest Management –** This course includes the following aspects of forestry: economic and environmental importance, harvesting equipment and methods, safety, business agreements for the procurement and/or sale of standing timber, surveying and land measurement, scaling and grading, and the equipment and marketing of Missouri wood products. (**CD** 016762, **CIP** 03.0101)

    Course Rationale – Agriculture encompasses the food, fiber, conservation and natural resource systems, employing over 20% of the nation's workforce. Harvesting and marketing of timber and wood products has an economic and environmental impact on this renewable natural resource.

23. **Greenhouse Operation and Management** – This course develops a basic understanding of greenhouse techniques. The production of greenhouse crops will be used to demonstrate procedures such as plants started from cuttings, seeds, grafts, and layering. Students will manage their own crop as a greenhouse project. (**CD** 016765, **CIP** 01.0601)

    Course Rationale – Agriculture encompasses the food, fiber, conservation and natural resource systems, employing over 20% of the nation's workforce. Cutting, seeding, grafting, layering, and management of a greenhouse provide entry level and entrepreneurial opportunities for students with an interest in horticulture.

24. **Landscaping –** This course includes the basic techniques of landscape design, landscape construction, installation, and maintenance. **(CD** 016764**, CIP** 01.0601**)**

    Course Rationale **–** Agriculture encompasses the food, fiber, conservation and natural resource systems, employing over 20% of the nation's workforce. Design, construction, installation, and maintenance are essential skills for a landscaping business.

25. **Nursery Operation and Management –** This course includes the production of plants, shrubs, and trees for the purpose of transplanting or propagation. Approved practices in wholesaling and retailing of nursery crops will be applied. (**CD** 016766, **CIP** 01.0601)

    Course Rationale – Agriculture encompasses the food, fiber, conservation and natural resource systems, employing over 20% of the nation's workforce. The propagation of plants, shrubs, and trees for transplanting prepares students for production, management, wholesaling and retailing of nursery crops.

26. **Supervised Agricultural Experience Co-op -- T**his course provides for the enrollment of students that are released on school time to complete a cooperative occupational experience in an approved training station in agriculture. A signed training agreement and training plan must be completed for each student. (**CD** 016780, **CIP** 01.0901)

    Course Rationale -- Agriculture encompasses the food, fiber, conservation and natural resource systems, employing over 20% of the nation's workforce. Providing on-the-job training experiences helps students to be more productive citizens in our society.

27. **Turf Management –** This course includes a study of soils and fertilizers for sod production. Also included are the skills needed for the establishment and maintenance of turf. (**CD** 016767, **CIP** 01.0601)

    Course Rationale – Agriculture encompasses the food, fiber, conservation and natural resource systems, employing over 20% of the nation's workforce. The establishment and maintenance of turf grasses is a growing agricultural business sector.

28. **Veterinary Science –** Both food and companion animals are studied in this course. Topics include cell and tissue biology, anatomy, physiology, nutrition, disease prevention and diagnosis, and surgical procedures. (**CD** 016745, **CIP** 01.0901)

    Course Rationale – Agriculture encompasses the food, fiber, conservation and natural resource systems, employing over 20% of the nation's workforce. This basic veterinary science study provides students with knowledge and skills needed in both the livestock and pet industries.

Course Rotation— 7-period day SAMPLE

SAMPLE Agriculture Department

GREAT Instructor

Career Pathways: Agricultural Business & Management Systems

Agricultural Mechanics & Technology Systems

Year: 20___ - 20___		
Period	**First Semester**	**Second Semester**
1	Agricultural Science I	Agricultural Science I
2	Agricultural Science II	Agricultural Science II
3	Agribusiness Sales, Marketing, & Mgt	Agribusiness Sales, Marketing, & Mgt
4	Animal Science	Food Science & Technology
5	Agricultural Construction	Agricultural Construction
6	SAE Supervision	SAE Supervision
7	Planning	Planning

Year: 20___ - 20___		
Period	**First Semester**	**Second Semester**
1	Agricultural Science I	Agricultural Science I
2	Agricultural Science II	Agricultural Science II
3	Agricultural Management & Economics	Agricultural Management & Economics
4	Conservation of Natural Resources	Conservation of Natural Resources
5	Agricultural Power I	Agricultural Structures
6	SAE Supervision	SAE Supervision
7	Planning	Planning

Note. 7-period system assumes 50 minute class periods with an average 250 minutes of instruction per week.

Course Rotation-- 8-period day SAMPLE

SAMPLE Agriculture Department

GREAT Instructor

Career Pathways: Animal Science Systems

Plant Science/Horticulture Systems

Agricultural Business & Management Systems

Year: 20___ - 20___		
Period	**First Semester**	**Second Semester**
1	Ag. Science 1	Ag. Science 1
2	Ag. Science 1	Ag. Science 1
3	Teacher Prep	Teacher Prep
4	Ag. Science II	Ag. Science II
5	Landscaping	Landscaping
6	Animal Science	Animal Science
7	Ag. Management and Economics	Ag. Management and Economics
8	SAEP- Supervision	SAEP- Supervision

Year: 20___ - 20___		
Period	**First Semester**	**Second Semester**
1	Ag. Science 1	Ag. Science 1
2	Ag. Science 1	Ag. Science 1
3	Teacher Prep	Teacher Prep
4	Greenhouse Operations and Management	Greenhouse Operations and Management
5	Equine Science	Equine Science
6	Ag. Science II	Ag. Science II
7	Ag Sales and Marketing	Ag Sales and Marketing
8	SAEP- Supervision	SAEP- Supervision

Course Rotation—8-block system SAMPLE

SAMPLE Agriculture Department

GREAT Instructor

Career Pathways: Animal Science Systems -CASE

Plant Science/Horticulture Systems- CASE

Food Science Systems- CASE

Year: 20___ - 20___		
Period	**"A" Day First / Second Semester**	**"B" Day First / Second Semester**
1	Intro to AFNR	Intro to AFNR
2	Intro to AFNR	Intro to AFNR
3	Principals of Ag Science- Plant	Natural Resources and Ecology
4	Teacher Prep	SAEP Supervision

Year: 20___ - 20___		
Period	**"A" Day First / Second Semester**	**"B" Day First / Second Semester**
1	Intro to AFNR	Intro to AFNR
2	Intro to AFNR	Intro to AFNR
3	Principals of Ag Science- Plant	Animal and Plant BioTech
4	Teacher Prep	SAEP Supervision

Course Rotation-- 10-block system SAMPLE

Anytown Agriculture Department

Mr. Plowman Instructor

Career Pathways: Animal Science Systems

Agriculture Mechanics and Technology Systems

Year: 20___ - 20___		
Period	**"A" Day First / Second Semester**	**"B" Day First / Second Semester**
1	Animal Science	Conservation and Natural Resources
2	Agriculture Science 2	Agriculture Science 2
3	Agriculture Science 1	Agriculture Science 1
4	Agriculture Science 1	Agriculture Science 1
5	SAEP	SAEP

Year: 20___ - 20___		
Period	**"A" Day First / Second Semester**	**"B" Day First / Second Semester**
1	Agriculture Construction	Agriculture Structures
2	Agriculture Science 2	Agriculture Science 2
3	Agriculture Science 1	Agriculture Science 1
4	Agriculture Science 1	Agriculture Science 1
5	SAEP	SAEP