AAS DEGREE - CODE #0510

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Careers related to agriculture are diverse and constantly changing. Today's students need the flexibility to tailor a degree to suit their needs. That's why our agricultural technology curriculum has been designed to let you select the elective courses that fit your career goals. You can choose concentrations of courses in animal science, enhancing your knowledge of animal agriculture and/or dairy science, or enhance your knowledge of crops and plant sciences, including fruit and vegetable production.

ADVANTAGES

- Opportunities for hands-on experience with organic farming.
- Animal science concentration is a progressive practical program emphasizing dairy cattle management and provides both a science and a business background.
- Plant science concentration focuses on the management of soil to increase production of both human and animal food crops and the science and business behind it. It includes an emphasis on sustainability.

DIRECT ENTRY INTO BACCALAUREATE DEGREE PROGRAMS

Alfred State agricultural technology graduates may enter directly into either the agribusiness management BTech, interdisciplinary studies BTech, or the technology management BBA degree program.

ANIMAL/DAIRY SCIENCE CONCENTRATION

The animal science concentration is a progressive practical program emphasizing dairy cattle management. The program offers both managerial and hands-on experiences. This concentration's courses provide a science and business background. A strong emphasis is placed on application of these principles with a free-stall housed organic herd milked by a robot and our herds of Angus and Herford cattle, sheep, and meat goats. The farm also houses horses, pigs, and poultry that are used to extend learning opportunities for our students.

PLANT/CROPS/FRUIT/VEGETABLE CONCENTRATION

This curriculum emphasizes management of the soil to increase production of food crops for both human and livestock consumption. Students are usually interested in crop farming or market gardening careers. Students are taught conventional, natural, and organic food production systems. This concentration's courses provide a science and business background. A strong emphasis is placed on application of sustainability principles on our farm, research plots, gardens, hydroponic systems, greenhouses, and high tunnels.

SHOWMANSHIP DAY

All students enrolled in agriculture classes truly enjoy participating in the annual showmanship activities each spring. Students can select a species of animal (cattle, horses, swine, alpacas, or sheep) to train, groom, and show in this annual competition. Family, friends, and alumni are invited to enjoy the competition and the awards barbecue following the showmanship contest.

RELATED CLUBS AND ACTIVITIES

Students have the opportunity to participate in the Collegiate Agricultural Leaders (CAL) Club, Collegiate FFA, Equestrian Club, Dairy Judging Team, Agricultural Skills Day, Spring Fling Consignment Sale, Community Supported Agriculture projects, local foods projects, showmanship contests, and Sustainability Club.

CONTINUING EDUCATION OPPORTUNITIES

Many schools, including Cornell University, grant full credit to students wishing to transfer to four-year programs. A formal articulation agreement exists between Alfred State and Cornell University for transfer options.

OCCUPATIONAL OPPORTUNITIES

- Owners, operators, managers, and herdsmen for dairy cattle and meat animal farms
- Fruit, vegetable, and field crop production
- Food industry
- Salespeople and consultants for feed, fertilizer, agricultural, and veterinary supply companies
- Agricultural banking and lending
- Inspectors of agricultural products
- Laboratory and field technicians for artificial insemination and veterinary supply companies
- Dairy farm inspectors

EMPLOYMENT STATISTICS

Employment and continuing education rate of 100 percent – 40 percent are employed; 60% continued their education.

ENTRANCE REQUIREMENTS/RECOMMENDATIONS

Required: Algebra

Recommended: Geometry, Algebra 2, Biology, Chemistry

OFFICE OF ACCESSIBILITY SERVICES

Students who believe they need a reasonable accommodation to properly participate in this program may contact Melanie Ryan in the Office of Accessibility Services. This office may be contacted by email at oas@alfredstate.edu or by phone at 607-587-4506. Please keep in mind that some accommodations may take time to implement, so students seeking accommodations are encouraged to contact OAS as early as possible.

AGRICULTURAL TECHNOLOGY - AAS DEGREE

ANIMAL SCIENCE CONCENTRATION TYPICAL FOUR-SEMESTER PROGRAM

First

ANSC	1204	Introduction to Animal Science	4
AGRI	1001	Farm Practicum I	1
BIOL	1304	Botany	4
AGRI	3351	Live Animal Evaluation	1
COMP	1503	Writing Studies	3
GLST	2113	Global & Diverse Perspectives	3
			16

Second

ANSC	3203	Dairy Cattle Production I	3
		OR	
ANSC	3103	Livestock Mgmt & Production	3
AGPS	1104	Soils	4
ANSC	2114	Dom Animal Anat & Phys	4
AGRI	2001	Farm Practicum II	1
SPCH	1083	Public Speaking	3
XXXX	xxx3	Agricultural Elective	3
			18

Third

AGPS	2113	Field & Forage Crops	3
ANSC	3013	Animal Disease Control	3
AGEC	3213	Farm & Rural Business Mgmt I	3
AGRI	3001	Farm Practicum III	1
XXXX	xxx3	Agriculture Elective	3
MATH	xxx3	MATH 1033, or 1104, or 1113, or 1123	3
			16

Fourth

AGEC	4303	Farm & Rural Business Mgmt II	3
AGRI	2101	Sophomore Seminar	1
AGRI	2013	Organic & Sustainable Ag Tech	3
		OR	
BIOL	4254	General Microbiology	4
AGRI	4001	Farm Practicum IV	1
XXXX	xxx3	Ag or Transfer Elective	3
XXXX	xxx3	General Education Elective	3
			14-15

If full-time student, may cross register at AU for equestrian classes.

Suggested Agriculture or Transfer-Related Electives:

AGPS	3004	Soil Fertility	4
ANSC	3003	Feeds and Nutrition	3
ANSC	3223	Dairy Calf Management	3
ANSC	3103	Livestock Mgmt & Production	3
ANSC	3204	Dairy Cattle Production III	4
AGPS	5003	Integrated Pest Management	3
AGPS	5103	Sustainable Vegetb Prodtn Tech	3
AGPS	5113	Sustainable Fruit Production	3
AGRI	2013	Organic & Sustainable Ag Tech	3
AGRI	6103	Precision Agriculture	3
BIOL	2803	Environmental Science	3
BIOL	2801	Environmental Sciences Lab	1
BIOL	4254	General Microbiology	4
BIOL	6534	Genetics	4
CHEM	1114	General Chemistry I	4
MATH	xxxx		

PLANT SCIENCE CONCENTRATION TYPICAL FOUR-SEMESTER PROGRAM

First

ANSC	1204	Introduction to Animal Science	4
AGRI	1001	Farm Practicum I	1
BIOL	1304	Botany	4
COMP	1503	Writing Studies	3
GLST	2113	Global & Diverse Perspectives	3
			15

Second

AGPS	1104	Soils	4
AGRI	2013	Organic & Sustainable Ag Tech	3
AGRI	2001	Farm Practicum II	1
XXXX	xxx3	Ag. Electives	6
SPCH	1083	Public Speaking	3
			17

Third

AGPS	2113	Field & Forage Crops	3
AGEC	3213	Farm & Rural Business Mgmt I	3
AGPS	5103	Sustainable Vegetb Prodtn Tech	3
AGRI	3001	Farm Practicum III	1
XXXX	xxx3	Ag. Elective	3
MATH	xxx3	MATH 1033, or 1104, or 1113, or 1123	3
			16

Fourth

AGEC	4303	Farm & Rural Business Mgmt II	3
AGRI	2101	Sophomore Seminar	1
AGPS	5003	Integrated Pest Management	3
AGRI	4001	Farm Practicum IV	1
XXXX	xxx3	Ag. Elective	3
XXXX	xxx3	Gen. Ed. Elective	3
			14

If full-time student, may cross register at AU for equestrian classes.

Suggested Agriculture or Transfer-Related Electives:			
AGPS	5003	Integrated Pest Management	3
AGPS	5113	Sustainable Fruit Production	3
AGRI	6103	Precision Agriculture	3
ANSC	2102	Dairy Cattle Reprod & A.I Tech	2
ANSC	2114	Dom Animal Anat & Phys	4
ANSC	3003	Feeds and Nutrition	3
ANSC	3243	Dairy Management Analysis	3
ANSC	3204	Dairy Cattle Production III	4
ANSC	3223	Dairy Calf Management	3
BIOL	2803	Environmental Science	3
BIOL	2801	Environmental Sciences Lab	1
BIOL	4254	General Microbiology	4
BIOL	6534	Genetics	4
CHEM	1114	General Chemistry I	4
MATH	xxxx		

GRADUATION REQUIREMENTS

Students must:

- successfully complete the prescribed sequence of courses
- achieve a minimum index of 2.0 in core courses
- achieve a minimum index of 2.0 overall
- be recommended by the department faculty