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 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 our two dairy herds: a tie-stall housed conventional herd of registered Holsteins milked in a parlor with integrated dairy cattle management software, and a free-stall housed organic herd milked by a robot. The conventional herd produces more than 28,000 pounds of milk, more than 1,100 pounds of fat with a B.A.A. of more than 108.7 percent. The Alfred State cows have the highest B.A.A. of any publicly owned herd in the nation. Alternative species, including horses, pigs, alpacas, poultry, and sheep are also housed at the College Farm for instructional purposes.

**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.
# Agricultural Technology (AAS)

## Animal Science Concentration

### Typical Four-Semester Program

### First Semester
- **ANSC 1204**: Introduction to Animal Science (4 credits)
- **AGRI 1001**: Farm Practicum I (1 credit)
- **BIOL 1304**: Botany (4 credits)
- **COMP 1503**: Freshman Composition (3 credits)
- **XXXX xxx3**: Gen. Education Elective (Math Recommended) (3 credits)

### Second Semester
- **ANSC 3203**: Dairy Cattle Production I (3 credits)
- **AGPS 1104**: Soils (4 credits)
- **ANSC 2114**: Dom Animal Anat & Phys (4 credits)
- **AGRI 2001**: Farm Practicum II (1 credit)
- **XXXX xxx3**: General Education Elective (3 credits)

### Third Semester
- **AGPS 2113**: Field & Forage Crops (3 credits)
- **ANSC 3013**: Animal Disease Control (3 credits)
- **AGEC 3213**: Farm & Rural Business Mgmt I (3 credits)
- **AGRI 3001**: Farm Practicum III (1 credit)
- **XXXX xxx3**: General Education Elective (3 credits)

### Fourth Semester
- **AGEC 4303**: Farm & Rural Business Mgmt II (3 credits)
- **AGRI 4002**: Senior Seminar/ Capstone Proj (2 credits)
- **AGRI 2013**: Organic & Sustainable Ag Tech (3 credits)
- **AGRI 4001**: Farm Practicum IV (1 credit)
- **XXXX xxx3**: Ag or Transfer-related Elective (3 credits)

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

### Suggested Agriculture or Transfer-related Electives:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
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<tbody>
<tr>
<td>AGPS 3004</td>
<td>Soil Fertility</td>
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<tr>
<td>ANSC 3202</td>
<td>Dairy Management</td>
<td>2</td>
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<tr>
<td>ANSC 3003</td>
<td>Feeds and Nutrition</td>
<td>3</td>
</tr>
<tr>
<td>ANSC 3223</td>
<td>Dairy Call Management</td>
<td>3</td>
</tr>
<tr>
<td>ANSC 3103</td>
<td>Livestock Mgmt &amp; Production</td>
<td>3</td>
</tr>
<tr>
<td>ANSC 3204</td>
<td>Dairy Cattle Production III</td>
<td>4</td>
</tr>
<tr>
<td>AGPS 5103</td>
<td>Sustainable Vegetables Prodtchn</td>
<td>3</td>
</tr>
<tr>
<td>AGPS 5003</td>
<td>Integrated Pest Management</td>
<td>3</td>
</tr>
<tr>
<td>AGRI 2013</td>
<td>Organic &amp; Sustainable Ag Tech</td>
<td>3</td>
</tr>
<tr>
<td>AGRI 6103</td>
<td>Precision Agriculture</td>
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<tr>
<td>BIOL 2803</td>
<td>Environmental Science</td>
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<td>BIOL 4254</td>
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<td>BIOL 6534</td>
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<td>CHEM 1114</td>
<td>General Chemistry I</td>
<td>4</td>
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<td>MATH xxxx</td>
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</table>

### Graduation Requirements

Students must:
- successfully complete the prescribed sequence of courses

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## Plant Science Concentration

### Typical Four-Semester Program

### First Semester
- **ANSC 1204**: Introduction to Animal Science (4 credits)
- **AGRI 1001**: Farm Practicum I (1 credit)
- **BIOL 1304**: Botany (4 credits)
- **COMP 1503**: Freshman Composition (3 credits)
- **XXXX xxx3**: Gen. Ed. Elective (Math Recommended) (3 credits)

### Second Semester
- **AGPS 1104**: Soils (4 credits)
- **AGRI 2013**: Organic & Sustainable Ag Tech (3 credits)
- **AGRI 2001**: Farm Practicum II (1 credit)
- **XXXX xxx3**: Ag. Electives (6 credits)
- **XXXX xxx3**: Gen. Ed. Elective (3 credits)

### Third Semester
- **AGPS 2113**: Field & Forage Crops (3 credits)
- **AGEC 3213**: Farm & Rural Business Mgmt I (3 credits)
- **AGPS 5103**: Sustainable Vegetables Prodtchn (3 credits)
- **AGRI 3001**: Farm Practicum III (1 credit)
- **XXXX xxx3**: Ag. Elective (3 credits)
- **XXXX xxx3**: Gen. Ed. Elective (3 credits)

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

### Suggested Agriculture or Transfer-related Electives:

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<tr>
<td>AGRI 6103</td>
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<td>Dom Animal Anat &amp; Phys</td>
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<td>AGRI 4001</td>
<td>Farm Practicum IV</td>
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<tr>
<td>XXXX xxx3</td>
<td>Gen. Ed. Elective</td>
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</table>

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If full-time student, may cross register at AU for equestrian classes.
• achieve a minimum index of 2.0 in core courses
• achieve a minimum index of 2.0 overall
• be recommended by the department faculty