STOCKBRIDGE
School of Agriculture
UMass Amherst

A.S. DEGREE

2020 - 2021
Stockbridge School of Agriculture
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Amherst, MA 01003
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davidsohn@larp.umass.edu

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mdacosta@umass.edu

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TWO-YEAR PROGRAMS OF STUDY

Arboriculture and Community Forest Management
Arboriculture and Community Forest Management is the sustainable care of trees and shrubs in residential and community settings. This major prepares graduates for careers in residential, commercial, municipal, and utility arboriculture, as well as the non-profit sector. Students will learn how to plant, prune, fertilize, cable, and remove trees, pest and disease management, plant health care, and quantify the benefits that trees provide, as well as the risks they present. The curriculum prepares students for arborist certification exams.

Landscape Contracting
Students learn the fundamentals of design and the process to execute the construction of landscapes on private, commercial and public properties. A strong horticultural foundation is used to support the construction and design portions of the curriculum while an overlying theme of sustainability ties them together. Students learn in a rigorous lecture and laboratory environment to prepare them for this most rapidly growing area of the green industry.

Sustainable Food and Farming
Students learn the complexities of farming and pursue careers in farming, education, and/or advocacy. During the educational experience, they acquire a basic knowledge of both plant and soil sciences while gaining specialized training in techniques of plant and animal production and management. This major also offers a degree of flexibility in designing a personal program of study.

Sustainable Horticulture
Sustainable Horticulture students prepare for careers in greenhouse crop production, nursery crop production, and horticulture opportunities at parks, recreational areas, tourist attractions, and historic sites. Sustainable and environmentally sound methods of selecting, producing and utilizing landscape plants are emphasized. Students choose elective courses to enrich their studies and to design their own course of study, including vegetable and herb production, sustainable agriculture, and pest management. In this way, students learn a wide variety of skills for application in the diverse horticulture industry.

Turfgrass Management
Through such courses as turfgrass physiology and management, weed management, insect management, plant pathology and disease management, soil science, irrigation, and business management, students are provided with the technical training necessary for professional careers in the dynamic turf care industry. The skills acquired can be applied to the management of athletic fields, golf courses, parks, and home lawns.
ADMISSIONS INFORMATION

Applications to the Stockbridge School of Agriculture are processed through the Undergraduate Admissions Office.

Application Deadlines

<table>
<thead>
<tr>
<th>Semester</th>
<th>Action</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall Semester</td>
<td>Early Action</td>
<td>November 5</td>
</tr>
<tr>
<td></td>
<td>Regular Decision</td>
<td>March 15</td>
</tr>
<tr>
<td></td>
<td>(encouraged to apply earlier)</td>
<td></td>
</tr>
<tr>
<td>Spring Semester</td>
<td></td>
<td>Spring Semester applications are generally not accepted due to prerequisites required for spring semester courses</td>
</tr>
</tbody>
</table>

Application Guidelines

Apply online through the Common Application at http://www.commonapp.org

First-Year Applicants

- Common Application
- Application fee
  - nonrefundable $80 application fee
- Essay
- Gap explanation
  - explain reason for the gap/s in your education following high school graduation
- Letter of recommendation
- Transcripts
  - official high school transcript (grades 9-11) or GED scores
- Test scores
  - SAT or ACT scores sent directly from the testing agency
  - test scores not required if student has been out of high school three or more years

Transfer Applicants

- Common Application
- Application fee
  - nonrefundable $80 application fee
- Essay
- Gap explanation
  - explain reason(s) for any gap/s in your college education after high school graduation
- Letter of recommendation not required for transfer applicants
- Transcripts
  - official college transcripts from ALL colleges attended
  - official high school transcript if applying during first year of college after high school graduation, or from colleges with non-standard grading systems
- Test scores
  - test scores required only if student is applying during first year of college after high
school graduation
- test scores not required if student has been out of high school five or more years
- test scores sent directly from the testing agency
- TOEFL / IELTS scores (English as a second language students only)

**International Applicants**
- you may apply for fall admission only
- applicants who are non-native speakers of English are required to demonstrate their English language proficiency.

More information for applying as an international student may be found at:

**International First-Year Applicants**
http://www.umass.edu/admissions/international-freshman

**OR**

**International Transfer Applicants**
http://www.umass.edu/admissions/international-transfer

**Applicants with Learning Disabilities**
In accordance with Chapter 766 of the Massachusetts Acts of 1972, you may claim an SAT/ACT exemption if:
- you are a learning-disabled Massachusetts resident
- you submit appropriate documentation of your disability

Learn more about support for students with learning disabilities at:
https://www.umass.edu/disability/

**Part-Time Students**
You may apply as a part-time student if you are interested in taking fewer than 12 credits per semester. Admittance to any course is on a space available basis.

Part-time students enroll in classes through University Without Walls (UWW); 413-545-1378; https://www.umass.edu/uww

**Veterans**
Veterans are considered under regular admissions policies. All veterans must submit a copy of their DD-214 or 2586 to verify potential credits earned for military experience. Do not submit the original, as this document will be needed at a later date to establish eligibility for GI Bill benefits. If still on active duty, submit the copy when you are released.

If you are a current or former member of the United States Military, you should contact the UMass Amherst Veteran Services Office as soon as you start the application process. The staff in this office helps Veterans, Guardsmen, and Reservists to access the benefits available to them through the Montgomery GI Bill (MGIB) and other programs. They also help students make the transition from active military duty to college and from college to active military duty.
For further information, please contact:

**Education Benefits and Enrollment Verification Questions**
Lynn Gates  
23 Dickinson Hall  
University of Massachusetts Amherst  
155 Hicks Way  
Amherst, MA, 01003  
413-545-5792  
vetbenefits@umass.edu

**Student Veterans Resource Center (SVRC)**
19 Dickinson Hall  
University of Massachusetts Amherst  
155 Hicks Way  
Amherst, MA, 01003  
413-545-0939  
veteranservices@sacl.umass.edu

https://www.umass.edu/veterans/student-veteran-resource-center-svrc

**General Information**

**Financial Aid**
The University's Financial Aid Services provides financial aid planning information to students and their families. Financial Aid Services is located in 243 Whitmore Administration Building; 413-545-0801; www.umass.edu/umfa

To apply for financial aid, you only need to complete one form, the Free Application for Federal Student Aid (FAFSA). The FAFSA is used to determine your eligibility for federal, state and institutional programs. Students may file the standard FAFSA form online at: http://www.fafsa.gov/. The FAFSA should be filed as soon after January 1 as possible and before the priority filing date of March 1 for maximum consideration. The school code for UMass Amherst is 002221. The FAFSA may be filed prior to filing your federal income tax return; if necessary, the FAFSA can be amended later.

**Housing**
All first-year students are required to live on campus. Exceptions to this policy are:
- sophomores, juniors, seniors
- married, divorced or separated students
- parent of dependent child(ren)
- veterans of the U.S. Armed Forces
- members of fraternities and sororities who have been authorized to reside in their respective houses
- commuting students who live with their parent(s) or court-appointed guardian(s) within a 40-mile radius of the Amherst campus

Documentation must be provided for students seeking exceptions to living on campus.
The Residential Life Student Services Office is located in 235 Whitmore Administration Building; 413-545-2100; www.umass.edu/living

**Meal Plans**
Four all-you-care-to-eat dining commons are conveniently located across campus. Guest meals and Dining Dollars or Meal Exchanges are included in the Residential Meal Plans.

Students may choose from the following meal plans:

- **Residential Meal Plans** (open to on-campus and off-campus students)
  - Unlimited Access to all four campus dining commons
  - DC Basic

- **Residential or Commuter Plan**
  - YCMP Gold* or Platinum
    *Residential students who leave campus in March for their internship training receive the YCMP Gold meal plan during the spring semester of their freshman year

For an overview of the Residential Meal Plans, go to: https://umassdining.com/meal-plans/residential-meal-plan

**New England Regional Student Program (NERSP)**
The New England Regional Student Program (NERSP) gives a tuition break to New England residents enrolled in certain programs not offered by their home state’s public colleges and universities. Students from Connecticut, Maine, New Hampshire, Rhode Island, and Vermont will pay a reduced tuition rate, rather than the out-of-state tuition rate, if they choose a major not offered in their home state.

<table>
<thead>
<tr>
<th>Stockbridge Major:</th>
<th>Offered to Students from:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arboriculture and Community Forest Management</td>
<td>CT, ME, NH, RI, VT</td>
</tr>
<tr>
<td>Landscape Contracting</td>
<td>CT, RI</td>
</tr>
<tr>
<td>Sustainable Food and Farming</td>
<td>ME, NH, RI, VT</td>
</tr>
<tr>
<td>Sustainable Horticulture</td>
<td>ME, RI</td>
</tr>
<tr>
<td>Turfgrass Management</td>
<td>ME, NH, RI, VT</td>
</tr>
</tbody>
</table>

For more information, contact the NERSP representative, 213 Whitmore Building; 413-545-0555 or the New England Board of Higher Education, 45 Temple Place, Boston, MA 02111; phone 617-357-9620; http://www.nebhe.org.

**Research Papers & Projects Assistance**
Two librarians are available to Stockbridge School students to provide assistance with finding reliable information for research papers and other projects. Students may contact them for an individual consultation by phone, email, skype, or in person. Please feel free to contact:

- Paulina Borrego, Lederle Grad Research Center; 413-545-7891; pborrego@library.umass.edu
- Madeleine Charney, Du Bois Library; 413-577-0784; mcharney@library.umass.edu
Scholarships
Over 50 scholarships are available to Stockbridge School students. Information is available on the Stockbridge School website: stockbridge.cns.umass.edu/current-students/scholarships

Transcripts
There are two types of transcripts: official transcripts and unofficial transcripts. For all transcript requests, go to: www.umass.edu/registrar/students/transcripts

EXPENSES

Estimated Annual Expenses for the 2020-2021 Academic Year

In-State
- Tuition & Fees $16,439.00
- Room & Board (average) $13,329.00
- Books & Supplies (average) $1,000.00
- Personal & Transportation (average) $1,000.00
Total $31,768.00

New England Regional Program (NERSP)
- Tuition & Fees $29,490.00
- Room & Board (average) $13,329.00
- Books & Supplies (average) $1,000.00
- Personal & Transportation (average) $1,000.00
Total $44,819.00

Out-of-State
- Tuition & Fees $36,427.00
- Room & Board (average) $13,329.00
- Books & Supplies (average) $1,000.00
- Personal & Transportation (average) $1,000.00
Total $51,756.00

Other Fees
- Commencement Fee (one-time fee) $110.00
- Lab Fees $95.00 per CNS lab course
- Late Fee $100.00
- New Student Enrollment Fee (one-time fee) $377.00 charged during first semester enrolled
- Returned Check Fee $25.00
- Transcript Fee $3.00 per electronic copy
  $5.50 per paper copy

Optional Fees
- Child Care $1.00 per semester
- Mass PIRG $11.00 per semester
- Student Health Benefit Plan $842.50 per semester; can be waived if student has other insurance

The Bursar’s Office (www.umass.edu/bursar) has more detailed information about tuition and fees.
Refunds
Refunds of paid tuition and fees are pro-rated, based on the **effective date of withdrawal**. Students are charged tuition until they meet with the Stockbridge School director to officially withdraw from school.

Refund Schedule
- Registration day and first day of classes 100% refund
- Day 2 of classes through the first two weeks of the semester 80%
- during the third week 60%
- during the fourth week 40%
- during the fifth week 20%
- **after the fifth week** 0% No refund

**Academic Information**

Grading System
A letter grading system is used as a means of measuring as fairly as possible both the quality and overall performance of a student’s work. At the end of each semester, students may view their grades on SPIRE. Letter grade, interpretation and assigned points are as follows:

<table>
<thead>
<tr>
<th>Letter</th>
<th>Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>4.000</td>
</tr>
<tr>
<td>A-</td>
<td>3.700</td>
</tr>
<tr>
<td>B+</td>
<td>3.300</td>
</tr>
<tr>
<td>B</td>
<td>3.000</td>
</tr>
<tr>
<td>B-</td>
<td>2.700</td>
</tr>
<tr>
<td>C+</td>
<td>2.300</td>
</tr>
<tr>
<td>C</td>
<td>2.000</td>
</tr>
<tr>
<td>C-</td>
<td>1.700</td>
</tr>
<tr>
<td>D+</td>
<td>1.300</td>
</tr>
<tr>
<td>D</td>
<td>1.000</td>
</tr>
<tr>
<td>D-</td>
<td>0.700</td>
</tr>
<tr>
<td>F</td>
<td>0.000</td>
</tr>
<tr>
<td>IF</td>
<td>0.000</td>
</tr>
<tr>
<td>INC</td>
<td>0.000</td>
</tr>
<tr>
<td>___</td>
<td>0.000</td>
</tr>
</tbody>
</table>

Other grade symbols not included in quality point calculations are:

- **AUD** Audit
- **CR** Credit
- **DR** Dropped
- **IP** In Progress
- **NR** No grade roster received
- **P** Pass (added to graduation credits)
- **SAT** Satisfactory
- **W** Withdrawn
- **WF** Withdrawn Failing
- **WP** Withdrawn Passing
- **Y** Year-long Course

Academic Status
The cumulative averages on which academic policy is based are as follows:

<table>
<thead>
<tr>
<th>Semester</th>
<th>Good Standing</th>
<th>Probation</th>
<th>Suspension</th>
</tr>
</thead>
<tbody>
<tr>
<td>First</td>
<td>2.00</td>
<td>1.35-1.99</td>
<td>1.34 or less</td>
</tr>
<tr>
<td>Second</td>
<td>2.00</td>
<td>1.65-1.99</td>
<td>1.64 or less</td>
</tr>
<tr>
<td>Third</td>
<td>2.00</td>
<td>1.85-1.99</td>
<td>1.84 or less</td>
</tr>
<tr>
<td>Fourth</td>
<td>2.00</td>
<td>___</td>
<td>1.99 or less</td>
</tr>
</tbody>
</table>
Good Standing
Students are in good academic standing when their cumulative grade point average (GPA) is 2.00 or above.

Academic Probation
Students are placed on academic probation when their cumulative GPA at the end of any semester falls within the range listed for probation. They are eligible to return to school the following semester.

Students on probationary status are required to:
- improve their academic performance so that their cumulative GPA falls within the range required to prevent a suspension
- have an academic hold placed on their record
- meet with the Stockbridge School director in order to have the academic hold removed

Academic Suspension
An academic suspension is enforced when the student’s cumulative GPA falls within the range listed for suspension. Suspension is a one-semester separation from the Stockbridge School and UMass, including University Without Walls.

Suspended students:
- may not return to the Stockbridge School for the subsequent semester
- must take a minimum of six (6) credits at another college or university
- must seek approval from the Stockbridge School director for courses taken at another college or university prior to enrollment
- must successfully complete the courses taken at another college or university with a minimum grade of “C”

After one semester’s absence and the successful completion of six (6) credits at another college or university, a student may submit a Re-Enrollment Application with the Stockbridge School Office. Re-Enrollment Applications may be downloaded from the Stockbridge School website:
https://stockbridge.cns.umass.edu/sites/stockbridge.cns.umass.edu/files/re-enrollmentAP.pdf

Deadline dates for re-enrollment are:
- Fall Semester April 1 to qualify for on-campus housing
  August 15
- Spring Semester October 15

Academic Dismissal
A student’s second academic suspension will be recorded as a dismissal and will result in the student’s permanent separation from the School, unless an appeal is granted (see Right of Appeal).

Immediate Reinstatement
Students who are placed on Academic Suspension or Dismissal may be granted Immediate Reinstatement if the Stockbridge School director determines that extenuating circumstances exist. Although these students will have formally been suspended or dismissed (the Suspension or Dismissal will be noted on the academic record), they may enroll for the succeeding semester. If these students fall below good standing in any subsequent semester, they will be subject to Academic Dismissal.
Right of Appeal
Students have the right to appeal their academic status. They are urged to consult with the Stockbridge School director regarding the procedure for petitions and appeals. All such appeals must be initiated in writing. Authority for determining students’ academic status resides with the Stockbridge School director or the Committee on Admissions and Records (CAR).

Honors
- **Cum Laude**
  Cum Laude is awarded to all students graduating with a minimum cumulative GPA of 3.20 who have completed a minimum of 33 graded credits in residence.

- **Dean’s List**
  Students are awarded Dean’s List Honors for any given semester in which they complete a minimum of 12 graded credits with a GPA of 3.50 or higher. Pass/Fail credits are NOT counted when calculating qualifying credits.

LEAR
Students who earn a minimum 3.75 cumulative GPA for three and/or four semesters are elected to membership in the LEAR honorary scholastic society. LEAR (Celtic word for learning) was established in 1935 to encourage high scholarship.

Graduation Requirements
Students are responsible for their progress towards graduation and the fulfillment of requirements. Contact with program coordinators is strongly advised of all students throughout their academic career. Candidates must successfully complete the following minimum requirements to qualify for the associate of science degree:

- complete all course requirements of the curriculum
- achieve a minimum cumulative GPA of 2.00
- complete a minimum of 60 credits
- satisfy all financial obligations to the School and University
Arboriculture And Community Forest Management
Professor Kristina Bezanson, Program Coordinator

This major prepares graduates for careers in residential, commercial, municipal and utility arboriculture, as well as the non-profit sector. Students will learn how to plant, prune, fertilize, cable and remove trees; pest and disease management, plant health care; and how to quantify the benefits that trees provide, as well as the risks they present.

Courses in **bold** require a minimum grade of C.

<table>
<thead>
<tr>
<th>First Semester</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>NRC 102 Arboricultural Field Techniques I</td>
<td>2</td>
</tr>
<tr>
<td>NRC 232 Principles of Arboriculture</td>
<td>3</td>
</tr>
<tr>
<td>STOCKSCH 105 Soils</td>
<td>4</td>
</tr>
<tr>
<td>STOCKSCH 108 Introductory Botany</td>
<td>4</td>
</tr>
<tr>
<td>STOCKSCH 192F First Year Seminar</td>
<td>1</td>
</tr>
<tr>
<td>SUSTCOMM 335 Plants in Landscape</td>
<td>4</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>18</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Second Semester (seven weeks)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>NRC 191A Seminar in Arboriculture &amp; Community Forestry</td>
<td>2</td>
</tr>
<tr>
<td>NRC 196Y Independent Study</td>
<td>4</td>
</tr>
<tr>
<td>OR 198Y Arboriculture Internship (April-August)</td>
<td>4</td>
</tr>
<tr>
<td>NRC 210 Arboricultural Field Techniques II</td>
<td>2</td>
</tr>
<tr>
<td>NRC 333 Principles of Arboriculture II</td>
<td>2</td>
</tr>
<tr>
<td>STOCKSCH 101 Insects &amp; Related Forms</td>
<td>2</td>
</tr>
<tr>
<td>STOCKSCH 111 Introductory Plant Pathology</td>
<td>2</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>14</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Third Semester</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 100/101/104 Based on Math Placement Exam Score</td>
<td>2-3</td>
</tr>
<tr>
<td>NRC 305 Commercial Arboriculture</td>
<td>3</td>
</tr>
<tr>
<td>STOCKSCH 109 Insects of Ornamentals</td>
<td>3</td>
</tr>
<tr>
<td>STOCKSCH 113 Introductory Plant Pathology Lab</td>
<td>2</td>
</tr>
<tr>
<td>STOCKSCH 230 Introductory Turfgrass Management</td>
<td>4</td>
</tr>
<tr>
<td>ELECTIVE Optional</td>
<td>3</td>
</tr>
<tr>
<td>BCT 353 Construction Project Management</td>
<td>3</td>
</tr>
<tr>
<td>NRC 290C Trees and Sustainability</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>14-18</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Fourth Semester</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGLWRIT 111/112 Based on Writing Program Placement Test Score</td>
<td>3-4</td>
</tr>
<tr>
<td>NRC 310 Community Forestry</td>
<td>3</td>
</tr>
<tr>
<td>ELECTIVES Advisor Approved</td>
<td>8-13</td>
</tr>
<tr>
<td>LANDARCH 297M Business Concepts</td>
<td>3</td>
</tr>
<tr>
<td>NRC 213 Arboricultural Field Techniques III</td>
<td>2</td>
</tr>
<tr>
<td>NRC 225 Forests and People</td>
<td>3</td>
</tr>
<tr>
<td>NRC 261 Wildlife Conservation</td>
<td>3</td>
</tr>
<tr>
<td>NRC 382 Human Dimensions of Natural Resource Management</td>
<td>4</td>
</tr>
<tr>
<td>STOCKSCH 235 Pruning Fruit Crops</td>
<td>2</td>
</tr>
<tr>
<td>GEN ED course</td>
<td>4</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>14-20</strong></td>
</tr>
</tbody>
</table>

Grand Total 60-70
**Landscape Contracting**  
Professor Mike Davidson, Program Coordinator

This program prepares students with the horticultural, design, and construction background to organize and execute the installation of landscape projects on private, commercial and public properties.

Courses in **bold** require a minimum grade of C.

**First Semester**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>LANDARCH 297A</td>
<td>Studio I</td>
<td>3</td>
</tr>
<tr>
<td>STOCKSCH 105</td>
<td>Soils</td>
<td>4</td>
</tr>
<tr>
<td>STOCKSCH 108</td>
<td>Introductory Botany</td>
<td>4</td>
</tr>
<tr>
<td>STOCKSCH 192F</td>
<td>First Year Seminar</td>
<td>1</td>
</tr>
<tr>
<td>SUSTCOMM 335</td>
<td>Plants in Landscape</td>
<td>4</td>
</tr>
</tbody>
</table>

**Total 16**

**Second Semester (seven weeks)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>LANDCONT 104</td>
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<td>Landscape Contracting Internship (April-August)</td>
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<td>STOCKSCH 101</td>
<td>Insects &amp; Related Forms</td>
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<tr>
<td>STOCKSCH 111</td>
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**Total 13**

**Third Semester**

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<tr>
<td>LANDCONT 107</td>
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<tr>
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<td>Based on Math Placement Exam Score</td>
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<tr>
<td>NRC 232</td>
<td>Principles of Arboriculture</td>
<td>3</td>
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<td>OR</td>
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<tr>
<td>STOCKSCH 230</td>
<td>Introductory Turfgrass Management</td>
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<td>STOCKSCH 109</td>
<td>Insects of Ornamentals</td>
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<tr>
<td>STOCKSCH 113</td>
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**Total 14-16**

**Fourth Semester**

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<tbody>
<tr>
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<tr>
<td>LANDARCH 294A</td>
<td>Construction Materials</td>
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<td>LANDARCH 294B</td>
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<td>LANDARCH 297M</td>
<td>Business Concepts of Landscape Contracting</td>
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<td>LANDCONT 213</td>
<td>Small Property Design</td>
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<tr>
<td>STOCKSCH 255</td>
<td>Herbaceous Plants</td>
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**Total 17-18**

**Grand Total 60-63**
**SUSTAINABLE FOOD AND FARMING**  
Dr. Wes Autio, Program Coordinator

Students in this major learn the complexities of farming and pursue careers in farming, education, and/or advocacy.

Courses in **bold** require a minimum grade of C.

<table>
<thead>
<tr>
<th>First Semester</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>STOCKSCH 105 Soils</td>
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<tr>
<td>STOCKSCH 108 Introductory Botany</td>
<td>4</td>
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<tr>
<td>STOCKSCH 192F First Year Seminar</td>
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<tr>
<td><strong>STOCKSCH 305 Small Fruit Production</strong> (even years)</td>
<td>3</td>
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<tr>
<td>STOCKSCH 350 Sustainable Soil &amp; Crop Management</td>
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<tbody>
<tr>
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<tr>
<td>STOCKSCH 104 Plant Nutrients</td>
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<td><strong>STOCKSCH 111 Introductory Plant Pathology</strong></td>
<td>2</td>
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<tr>
<td><strong>STOCKSCH 198F Sustainable Food &amp; Farming Internship (3-5 months)</strong></td>
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<tr>
<td>SUSFD ELECTIVES Advisor Approved</td>
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<td><strong>15-16</strong></td>
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<tr>
<td>STOCKSCH 113 Introductory Plant Pathology Lab</td>
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<tr>
<td><strong>STOCKSCH 300 Deciduous Orchards Science</strong> (odd years)</td>
<td>3</td>
</tr>
<tr>
<td><strong>STOCKSCH 320 Organic Vegetable Production</strong></td>
<td>3</td>
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<tr>
<td>SUSFD ELECTIVES Advisor Approved</td>
<td>6</td>
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<td><strong>Total</strong></td>
<td><strong>16-17</strong></td>
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<tr>
<td><strong>Total</strong></td>
<td><strong>15-16</strong></td>
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</table>

**Grand Total 61-64**

**APPROVED SUSTAINABLE FOOD AND FARMING ELECTIVES**

- minimum of 24 credits
- other courses may be substituted with advisor approval
- each course can be utilized to satisfy the requirements of only one category

**Economic & Social Systems (minimum of one class)**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
<th>Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANIMLSCI 260</td>
<td>Animal Care &amp; Welfare</td>
<td>4 cr</td>
<td>fall sem</td>
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<tr>
<td>NRC 225</td>
<td>Forests and People</td>
<td>3 cr</td>
<td>spring sem</td>
</tr>
<tr>
<td>RES-ECON 262</td>
<td>Environmental Economics</td>
<td>4 cr</td>
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<tr>
<td>RES-ECON 263</td>
<td>Natural Resource Economics</td>
<td>4 cr</td>
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</table>
# Sustainable Food and Farming

## Approved Sustainable Food and Farming Electives (cont.)

### Pests & Pest Management (minimum of one class)

<table>
<thead>
<tr>
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<th>Credits</th>
<th>Semester</th>
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</thead>
<tbody>
<tr>
<td>STOCKSCH 182</td>
<td>Principles of Pesticide Management</td>
<td>2 cr</td>
<td>spring sem</td>
</tr>
<tr>
<td>STOCKSCH 290W</td>
<td>Organic Weed Control</td>
<td>3 cr</td>
<td>spring sem</td>
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<tr>
<td>STOCKSCH 310</td>
<td>Principles of Weed Management</td>
<td>3 cr</td>
<td>fall sem</td>
</tr>
<tr>
<td>STOCKSCH 326</td>
<td>Insect Biology</td>
<td>3 cr</td>
<td>fall sem</td>
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### Plant & Animal Systems (minimum of two classes)

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<th>Credits</th>
<th>Semester</th>
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<tbody>
<tr>
<td>ANIMLSCI 103</td>
<td>Introductory Animal Management</td>
<td>4 cr</td>
<td>spring sem</td>
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<tr>
<td>ANIMLSCI 260</td>
<td>Animal Care &amp; Welfare</td>
<td>4 cr</td>
<td>fall sem</td>
</tr>
<tr>
<td>STOCKSCH 265</td>
<td>Sustainable Agriculture</td>
<td>3 cr</td>
<td>fall sem</td>
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### Practica & Related Experiences (minimum of one class)

<table>
<thead>
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<th>Credits</th>
<th>Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANIMLSCI 251</td>
<td>Dorset Sheep Management II</td>
<td>2 cr</td>
<td>spring sem</td>
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<tr>
<td>ANIMLSCI 252</td>
<td>Belted Galloway Management II</td>
<td>2 cr</td>
<td>spring sem</td>
</tr>
<tr>
<td>ANIMLSCI 253</td>
<td>Boer Goat Management II</td>
<td>2 cr</td>
<td>spring sem</td>
</tr>
<tr>
<td>ANIMLSCI 297DC</td>
<td>Dairy Calf Management</td>
<td>2 cr</td>
<td>fall sem</td>
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<tr>
<td>ANIMLSCI 297L</td>
<td>Livestock Classic</td>
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<td>spring sem</td>
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<tr>
<td>ANIMLSCI 298</td>
<td>Practicum</td>
<td>1+ cr</td>
<td>both sem</td>
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<tr>
<td>STOCKSCH 170</td>
<td>Pesticide Certification</td>
<td>1 cr</td>
<td>both sem</td>
</tr>
<tr>
<td>STOCKSCH 196</td>
<td>Independent Study</td>
<td>1+ cr</td>
<td>both sem</td>
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<tr>
<td>STOCKSCH 298</td>
<td>Practicum</td>
<td>1+ cr</td>
<td>both sem</td>
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<td>STOCKSCH 398G</td>
<td>Greenhouse Practicum</td>
<td>1 cr</td>
<td>both sem</td>
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### Production Systems (minimum of one class)

<table>
<thead>
<tr>
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<th>Semester</th>
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<tbody>
<tr>
<td>ANIMLSCI 103</td>
<td>Introductory Animal Management</td>
<td>4 cr</td>
<td>spring sem</td>
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<tr>
<td>ANIMLSCI 332</td>
<td>Basic Animal Nutrition &amp; Feeding</td>
<td>4 cr</td>
<td>spring sem</td>
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<td>STOCKSCH 120</td>
<td>Organic Farming and Gardening</td>
<td>4 cr</td>
<td>spring sem</td>
</tr>
<tr>
<td>STOCKSCH 235</td>
<td>Pruning Fruit Crops</td>
<td>2 cr</td>
<td>spring sem</td>
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<tr>
<td>STOCKSCH 370</td>
<td>Tropical Agriculture</td>
<td>3 cr</td>
<td>spring sem</td>
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<tr>
<td>STOCKSCH 390G</td>
<td>Sustainable Grape Production</td>
<td>3 cr</td>
<td>spring sem</td>
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**Sustainable Horticulture**  
Dr. Amanda (Mandy) Bayer, Program Coordinator

Students interested in gaining knowledge in a range of sustainable horticulture topics enroll in this major. Alternatively, students may design their own focus of study (e.g., greenhouse crops and vegetable crops) by choosing from a list of approved electives or special topics courses in consultation with their advisor.

Courses in **bold** require a minimum grade of C.

### First Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
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<tbody>
<tr>
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<td>STOCKSCH 105</td>
<td>4</td>
<td>Soils</td>
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<tr>
<td>STOCKSCH 108</td>
<td>4</td>
<td>Introductory Botany</td>
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<tr>
<td>STOCKSCH 192F</td>
<td>1</td>
<td>First Year Seminar</td>
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<tr>
<td>STOCKSCH 315</td>
<td>4</td>
<td><strong>Greenhouse Management</strong> (even years)</td>
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**Total 15-16**

### Second Semester

<table>
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<td>Insects &amp; Related Forms</td>
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<td>STOCKSCH 104</td>
<td>2</td>
<td>Plant Nutrients</td>
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<tr>
<td>STOCKSCH 111</td>
<td>2</td>
<td>Introductory Plant Pathology</td>
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<tr>
<td>STOCKSCH 198G</td>
<td>3</td>
<td><strong>Horticulture Internship (June-August)</strong></td>
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<td>STOCKSCH 255</td>
<td>3</td>
<td>Herbaceous Plants</td>
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<tr>
<td>SUSHORT ELECTIVES</td>
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<td>Advisor Approved</td>
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**Total 18-19**

### Third Semester

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<tr>
<td>STOCKSCH 109</td>
<td>3</td>
<td>Insects of Ornamentals</td>
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<tr>
<td>STOCKSCH 113</td>
<td>2</td>
<td>Introductory Plant Pathology Lab</td>
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<tr>
<td>STOCKSCH 200</td>
<td>3</td>
<td><strong>Plant Propagation</strong> (odd years)</td>
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<td>SUSHORT ELECTIVE</td>
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<tr>
<td>SUSTCOMM 335</td>
<td>4</td>
<td>Plants in Landscape</td>
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**Total 15**

### Fourth Semester

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<td>Principles of Pesticide Management</td>
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<tr>
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**Total 12-16**

Grand Total 60-66

### Approved Sustainable Horticulture Electives

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<td>LANDARCH 294A</td>
<td>3 cr</td>
<td>Construction Materials</td>
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<tr>
<td>LANDARCH 294B</td>
<td>1 cr</td>
<td>Construction Materials Practicum</td>
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<tr>
<td>NRC 100</td>
<td>4 cr</td>
<td>Environment and Society</td>
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<tr>
<td>NRC 210</td>
<td>2 cr</td>
<td>Arboricultural Field Techniques II</td>
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<td>NRC 232</td>
<td>3 cr</td>
<td>Principles of Arboriculture</td>
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<td>NRC 310</td>
<td>3 cr</td>
<td>Community Forestry</td>
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<tr>
<td>STOCKSCH 120</td>
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<td>Organic Farming and Gardening</td>
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15
## SUSTAINABLE HORTICULTURE

### Approved Sustainable Horticulture Electives (cont.)

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<td>Introduction to Permaculture</td>
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<td>STOCKSCH 230</td>
<td>Introductory Turfgrass Management</td>
<td>4 cr</td>
<td>fall sem</td>
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<tr>
<td>STOCKSCH 234</td>
<td>Irrigation &amp; Drainage</td>
<td>2 cr</td>
<td>spring sem</td>
</tr>
<tr>
<td>STOCKSCH 235</td>
<td>Pruning Fruit Crops</td>
<td>2 cr</td>
<td>spring sem</td>
</tr>
<tr>
<td>STOCKSCH 265</td>
<td>Sustainable Agriculture</td>
<td>3 cr</td>
<td>fall sem</td>
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<tr>
<td>STOCKSCH 275</td>
<td>Turfgrass Physiology &amp; Ecology</td>
<td>3 cr</td>
<td>spring sem</td>
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<td>STOCKSCH 300</td>
<td>Deciduous Orchards Science</td>
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<td>fall sem (odd years)</td>
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<td>STOCKSCH 305</td>
<td>Small Fruit Production</td>
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<td>fall sem (even years)</td>
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<td>STOCKSCH 310</td>
<td>Principles of Weed Management</td>
<td>3 cr</td>
<td>fall sem</td>
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<tr>
<td>STOCKSCH 320</td>
<td>Organic Vegetable Production</td>
<td>3 cr</td>
<td>fall sem</td>
</tr>
<tr>
<td>STOCKSCH 335</td>
<td>Principles &amp; Practices of Greenhouse Cultivation</td>
<td>4 cr</td>
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<tr>
<td>STOCKSCH 340</td>
<td>Advanced Turfgrass Management</td>
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<tr>
<td>STOCKSCH 350</td>
<td>Sustainable Soil and Crop Management</td>
<td>3 cr</td>
<td>fall sem</td>
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<tr>
<td>STOCKSCH 360</td>
<td>Landscape Plant Production</td>
<td>4 cr</td>
<td>fall sem (odd years)</td>
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</table>
**Turfgrass Management**  
Dr. Michelle DaCosta, Program Coordinator

This major prepares students for employment in the rapidly growing green industry with emphasis on developing grass areas for fine turf, including golf, sports, and lawns.

Courses in **bold** require a minimum grade of C.

<table>
<thead>
<tr>
<th>First Semester</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>ENGLWRIT 111/112 Based on Writing Program Placement Test Score</td>
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</tr>
<tr>
<td>STOCKSCH 105 Soils</td>
<td>4</td>
</tr>
<tr>
<td>STOCKSCH 108 Introductory Botany</td>
<td>4</td>
</tr>
<tr>
<td>STOCKSCH 192F First Year Seminar</td>
<td>1</td>
</tr>
<tr>
<td><strong>STOCKSCH 230 Introductory Turfgrass Management</strong></td>
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</tr>
<tr>
<td><strong>Total</strong> 16-17</td>
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</table>

**Second Semester (1st seven weeks)**

| STOCKSCH 101 Insects & Related Forms                                        | 2       |
| STOCKSCH 104 Plant Nutrients                                                | 2       |
| STOCKSCH 111 Introductory Plant Pathology                                    | 2       |

**(2nd seven weeks)**

| **STOCKSCH 112 Turfgrass Pathology Lab**                                    | 2       |
| STOCKSCH 232 Turf Machinery                                                 | 1       |

**(FULL SEMESTER)**

| STOCKSCH 107 Turfgrass Insects                                              | 2       |
| **STOCKSCH 198T Turfgrass Internship (June-August)**                         | 3       |
| **STOCKSCH 240 Applied Calculations in Turf Management**                    | 2       |
| **STOCKSCH 275 Turfgrass Physiology & Ecology**                             | 3       |
| **Total** 19                                                                |         |

**Third Semester**

| MATH 100/101/104 Based on Math Placement Exam Score                         | 2-3     |
| NRC 232 Principles of Arboriculture                                        | 3       |
| STOCKSCH 310 Principles of Weed Management                                   | 3       |
| SUSTCOMM 335 Plants in Landscape                                           | 4       |
| **Total** 12-13                                                            |         |

**Fourth Semester**

| STOCKSCH 182 Principles of Pesticide Management                              | 2       |
| STOCKSCH 234 Irrigation & Drainage                                          | 2       |
| **STOCKSCH 340 Advanced Turfgrass Management**                              | 3       |

| ELECTIVES Advisor Approved                                                   | 6-7     |
| COMM 250 Interpersonal Communication                                        | 4       |
| SPANISH course                                                              | 3       |
| **if transferring to bachelor’s degree program:**                           |         |
| MATH 104 Algebra, Analytic Geometry, and Trigonometry                       | 3       |
| RES-ECON 102 Introductory Resource Economics                                | 4       |
| GEN ED course                                                               | 4       |
| **Total** 13-14                                                             |         |

**Grand Total** 60-63
**COURSE DESCRIPTIONS**

**ANIMAL SCIENCE**

**Introductory Animal Management**  
**ANIMLSCI 103.** With lab. In-depth presentation of animal agriculture and its economic implications. Concepts of nutrition, reproduction, husbandry, and marketing presented for beef and dairy cattle, sheep, swine, poultry, and horses.  
*Prerequisite: ANIMLSCI 101 with minimum grade of C or consent of instructor and program coordinator*  
4 credits/spring sem

**Dorset Sheep Management II**  
**ANIMLSCI 251.** Participation in all aspects of managing a sheep flock, including nutritional management, health management, pregnancy, neonatal care and marketing.  
*Prerequisites: consent of instructor and program coordinator*  
2 credits/spring sem

**Belted Galloway Management II**  
**ANIMLSCI 252.** Exposure to the beef cattle production cycle in the winter-spring with hands-on experience. Emphasis placed on understanding cattle behavior and practicing sound stockmanship.  
*Prerequisites: consent of instructor and program coordinator*  
2 credits/spring sem

**Boer Goat Management II**  
**ANIMLSCI 253.** Participation in all aspects of managing a meat goat herd, including nutritional management, health management, pregnancy, neonatal care and marketing.  
*Prerequisites: consent of instructor and program coordinator*  
2 credits/spring sem

**Animal Care & Welfare (Gen Ed S1)**  
**ANIMLSCI 260.** With discussion. Examination of the academic discipline of animal welfare, considering how science, ethics, legislation and economic factors impact the lives of animals.  
4 credits/fall sem

**Dairy Calf Management**  
**ANIMLSCI 297DC.** Experiential learning class involving the daily care, feeding, and management of pre- and post-weaned dairy calves. Attendance required at weekly management meetings and completion of a two-week feeding block. Close quarter work required with dairy calves. Under the best of circumstances (use of appropriate personal protective equipment) there is a small but significant risk of contracting zoonotic diseases. To mitigate this risk student purchase and use of coveralls and waterproof boots are required. Additional PPE will be provided.  
*Prerequisites: some dairy experience; access to transportation; UMass Environmental Health and Safety (EH&S) training within two weeks of class start date; consent of instructor and program coordinator*  
2 credits/fall sem
Livestock Classic

**ANIMLSCI 297L.** Grooming and showing of cattle, sheep, and goats are taught through hands-on experience and presentation of the animals in a show organized by the students each spring. The show is open to the public and is held at the Hadley Farm. Previous experience preferred.

*Prerequisites: consent of instructor and program coordinator*

1 credit/spring sem

Practicum

**ANIMLSCI 298.** Pre-professional work experience in the field of animal science under the guidance of a faculty member.

*Prerequisites: consent of instructor and program coordinator*

1-4 credits/both sem

Basic Animal Nutrition & Feeding

**ANIMLSCI 332.** With lab. Detailed study of macro and micro nutrients, their digestion, absorption, and metabolism by various domesticated animal species for maintenance and production. Introduction to feeding programs.

*Prerequisite: ANIMLSCI 220 or consent of instructor and program coordinator*

4 credits/spring sem

BUILDING & CONSTRUCTION TECHNOLOGY

Construction Project Management

**BCT 353.** Introduction of business concepts to students interested in design and fabrication of structures. Managing a project, contracts, marketing, scheduling, personnel, leadership, interpersonal communication, human behavior, finance, budgeting, ethical and legal considerations.

*Prerequisites: consent of instructor and program coordinator*

3 credits/fall sem

COMMUNICATION

Interpersonal Communication  (Gen Ed SB)

**COMM 250.** Focus on acquiring a principled understanding of everyday, face-to-face interaction as the process by which we create, maintain, and manage social experience. Students acquire vocabulary and concepts to account for, analyze, and evaluate interpersonal communication in social and cultural context.

4 credits/spring sem
ENGLISH WRITING PROGRAM

Writing, Identity and Power  (Gen Ed DU & I)
ENGLWRIT 111. College-level reading- and writing-intensive course. Exploration of writing as a social act that is influenced by larger systems of power. Students integrate theories of language and literacy with personal experience to reflect upon their own experiences as writers. Classes are held workshop-style in computer classrooms to allow for writing, collaboration, and consultation among students and between students and teacher. The course prepares students for ENGLWRIT 112 by introducing practices used in process-based writing courses.
4 credits/both sem

College Writing  (Gen Ed CW)
ENGLWRIT 112. A first-year college-level writing course designed to help students expand their ability to write essays for academic, civic, and personal purposes and to develop their rhetorical awareness to write effectively in new social contexts. Emphasis on the writing process: prewriting, peer review, revision, and editing. Five essays required.
Prerequisite: satisfactory performance on the Writing Placement Exam or ENGLWRIT 111
3 credits/both sem

LANDSCAPE ARCHITECTURE

Construction Materials
LANDARCH 294A. Introduction to materials used in landscape construction, their design potential and limitations. Design details and construction methods discussed.
3 credits/spring sem

Construction Materials Practicum
LANDARCH 294B. Uses of brick, stone, concrete, wood, and other landscape media are examined.
Prerequisite: Stockbridge students only
1 credit/spring sem

Studio I
LANDARCH 297A. Introduction to Design: basic introduction to two-dimensional concepts of design. Line, form, contrast, repetition, symmetry, texture, scale, and other design techniques. Models: introduction to three-dimensional design thinking by creating spaces through land form, vegetation, and structure.
Prerequisite: Landscape Contracting majors only or consent of instructor
3 credits/fall sem

Business Concepts of Landscape Contracting
LANDARCH 297M. The varied aspects of running a small landscape contracting business.
Prerequisite: Landscape Contracting majors only or consent of instructor
3 credits/spring sem
LANDSCAPE CONTRACTING

Planting Design
LANDCONT 104. Preparation for internship training; programming for such horticultural practices as pruning, planting, winter protection, and pest control in gardens and nurseries. Seven-week course; first seven weeks of the semester. 
Prerequisites: LANDARCH 297A and SUSTCOMM 335
3 credits/spring sem

Landscape Drafting
LANDCONT 105. Drafting techniques necessary in landscape work, including lettering, line work, freehand sketching, scale drawings, plans, elevations, sections, profiles, composition, and rendering. Seven-week course; first seven weeks of the semester.
2 credits/spring sem

Land Form
LANDCONT 107. With lab. Practice in use of simple surveying instruments such as tapes, compasses, and levels for measurement of land surfaces. Methods of grading and graphic representations of land form (contours and profiles) explored. 
Prerequisite: Landscape Contracting seniors only or consent of instructor
4 credits/fall sem

Landscape Contracting Internship
LANDCONT 198Y. Required of all students majoring in Landscape Contracting. Five-month (April-August) internship in the specific field of study. Submission of reports and collections required. 
Prerequisite: Landscape Contracting majors only
4 credits/spring sem

Small Property Design
LANDCONT 213. Using models, students employ the landscape media of land, plants, structures, and water to create landscape space. Real situations with local clients designed. Techniques of interviewing, photographing, site analysis, and design explored. 
Prerequisite: LANDCONT 104
4 credits/spring sem

MATHEMATICS

Basic Mathematics Skills for the Modern World (Gen Ed R1)
MATH 100. Topics in mathematics that every educated person needs to know to process, evaluate, and understand the numerical and graphical information in our society. Applications of mathematics in problem solving, finance, probability, statistics, geometry, population growth. 
3 credits/both sem
Precalculus Algebra with Functions and Graphs

MATH 101. First semester of the two-semester sequence MATH 101-102. Detailed, in-depth review of manipulative algebra; introduction to functions and graphs, including linear, quadratic, and rational functions.
Prerequisite: MATH 011 or MATH 012 or Placement Exam Part A score above 10
2 credits/both sem

Analytic Geometry and Trigonometry (Gen Ed R1)

MATH 102. Second semester of the two-semester sequence MATH 101-102. Detailed treatment of analytic geometry, including conic sections and exponential and logarithmic functions. Same trigonometry as in MATH 104.
Prerequisite: MATH 101
2 credits/both sem

Algebra, Analytic Geometry, and Trigonometry (Gen Ed R1)

MATH 104. One-semester review of manipulative algebra, introduction to functions, some topics in analytic geometry, and that portion of trigonometry needed for calculus.
Prerequisite: MATH 011 or MATH 012 or Placement Exam Part A score above 15
3 credits/both sem

NATURAL RESOURCES CONSERVATION

Environment and Society (Gen Ed SI)

NRC 100. Exploration of the inherently interdisciplinary environmental challenges facing society. Students will investigate the impacts of human activities on forests, water, fish and wildlife populations, urban areas, and climate change.
4 credits/fall sem

Arboricultural Field Techniques I

NRC 102. Principles of rigging, advanced rope techniques, and chainsaw applications for tree pruning and removal. Lab fee required.
Prerequisites: NRC 232 (may be taken concurrently); Arboriculture and Community Forest Management majors only
2 credits/fall sem

Seminar in Arboriculture & Community Forestry

NRC 191A. Review of various professional aspects of arboriculture and urban forestry. Seven-week course; first seven weeks of the semester.
Prerequisite: Arboriculture and Community Forest Management majors only
2 credits/spring sem

Independent Study-Arboriculture and Community Forest Management

NRC 196Y. Five month (April-August) independent study on arboriculture and urban forestry topics.
Prerequisite: Arboriculture and Community Forest Management majors only
4 credits/spring sem
Arboriculture Internship

**NRC 198Y.** Required of all students majoring in Arboriculture and Community Forest Management. Five-month (April-August) internship in the specific field of study. Submission of reports and collections required.

*Prerequisites: NRC 232; Arboriculture and Community Forest Management majors only*

4 credits/spring sem

Arboricultural Field Techniques II

**NRC 210.** Basic chain saw use and safety, including directional felling, bucking, and limbing trees; notch and back cuts; using wedges; cutting branches and trunks under tension. Lab fee required. Seven-week course; first seven weeks of the semester.

*Prerequisites: NRC 232; Arboriculture and Community Forest Management majors only*

2 credits/spring sem

Arboricultural Field Techniques III

**NRC 213.** Focus on arboricultural field techniques not taught in NRC 102 and NRC 210, such as advanced climbing, rigging, and cabling. Specific topics include split-tail climbing systems and alternative friction hitches, SRT, steel and synthetic rope cabling systems, natural union rigging, rigging with blocks and friction devices.

*Prerequisites: NRC 232; Arboriculture and Community Forest Management majors only*

2 credits/spring sem

Forests and People

**NRC 225.** Exploration of the unique values forests have in our culture; key characteristics of forests in the Northeast and how and why they have changed through time; historical and contemporary leaders in forest conservation; sustainable forest management principles and practices; current forest use patterns and trends and the challenges and opportunities they present in the 21st century.

3 credits/spring sem

Principles of Arboriculture

**NRC 232.** The course is designed to introduce students to arboriculture and the care of community trees. Many aspects of tree care are covered, and safety is stressed throughout the course. The course presents a balanced program of practical skills and scientific tree care.

3 credits/fall sem

Wildlife Conservation

**NRC 261.** Fundamental ecology and principles of wildlife management. Emphasis on wildlife habitat and population characteristics and responses.

*Prerequisite: one semester of general biology or consent of instructor*

3 credits/spring sem
Trees and Sustainability

NRC 290C. Trees growing in residential areas provide many benefits like cleaning the air and water, reducing energy use, and blocking unsightly views. They can also be dangerous if not carefully planted and properly maintained, causing power outages and damaging property. Review of the benefits that trees provide, including different ways to assess their value. How best to plant and maintain trees to maximize their benefits and minimize their costs will be discussed.
3 credits/fall sem

Commercial Arboriculture

NRC 305. Fundamentals of owning/operating a tree care business. Basic cost accounting and estimating for pruning, fertilization, and support system installation. Importance of a company safety policy will be reviewed.
Prerequisites: NRC 232; Arboriculture and Community Forest Management seniors only
3 credits/fall sem

Community Forestry

NRC 310. Management principles of municipal and utility tree care, land use problems, tree laws and ordinances.
Prerequisites: NRC 232; Arboriculture and Community Forest Management majors only
3 credits/spring sem

Principles of Arboriculture II

NRC 333. Description unavailable.
Seven-week course; first seven weeks of the semester.
2 credits/spring sem

Human Dimensions of Natural Resource Management

NRC 382. Introduction to the human dimension of resource management. Topics include social values, demographics, outdoor recreation, agency history and mandates, economic valuation, resource allocation, stakeholder groups, the commons dilemma, and other topics.
Prerequisite: consent of instructor
4 credits/spring sem

RESOURCE ECONOMICS

Introductory Resource Economics (Gen Ed SB)

4 credits/both sem
Environmental Economics  (Gen Ed SB)  
RES-ECON 262. Economic analysis of environmental problems focusing on air, water, and land pollution. Emphasis on analyzing the individual incentives that lead to pollution, the valuation of environmental quality amenities, and the design and evaluation of regulations that seek to improve environmental quality. Includes the economic analysis of global climate change.  
4 credits/spring sem

Natural Resource Economics  (Gen Ed SB)  
RES-ECON 263. Economic analysis of natural resource use and conservation. Includes analyses of the use of fuel, forest, marine and biodiversity resources. Focuses on evaluating natural resource use in terms of efficiency and sustainability, and designing regulations for correcting inefficient and unsustainable resource markets.  
4 credits/fall sem

STOCKBRIDGE SCHOOL

Insects & Related Forms  
STOCKSCH 101. With lab. Introduction to insect recognition, development, damage, and control. Seven-week course; first seven weeks of the semester.  
2 credits/spring sem

Plant Nutrients  
STOCKSCH 104. Functions of mineral nutrients in plants, effects of mineral deficiencies, and sources of these nutrients to prevent or alleviate deficiencies in crop production. Seven-week course; first seven weeks of the semester.  
Prerequisites: STOCKSCH 105; Stockbridge students only  
2 credits/spring sem

Soils  (Gen Ed BS)  
STOCKSCH 105. With lab. Interrelationship of soils and higher plants. Physical, chemical, and biological properties of soils. Practical approach to current problems through basic soil principles.  
Prerequisite: some knowledge of chemistry  
4 credits/both sem

Turfgrass Insects  
Prerequisite: STOCKSCH 101 (may be taken concurrently)  
2 credits/spring sem
Introductory Botany
STOCKSCH 108. With lab. This introductory botany course covers the unique features of plants, how they function, how they are categorized, and how they fit into the ecosystem. Topics include classification of plants, analysis of cell structure and various plant tissues and organs, and study of sexual and asexual reproduction as well as structure and function of plant systems. In addition, students will develop a basic understanding of the processes of photosynthesis and cellular respiration.
4 credits/fall sem

Insects of Ornamentals
STOCKSCH 109. With lab. The recognition, biology, and control of major insect and mite pests attacking shade trees and woody ornamentals in the northeastern U.S. Emphasis on techniques and knowledge useful to the professional in tree care.
Prerequisite: STOCKSCH 101
3 credits/fall sem

Introductory Plant Pathology
Seven-week course; first seven weeks of the semester.
Prerequisites: STOCKSCH 108 or 100-level biology course; Stockbridge students only
2 credits/spring sem

Turfgrass Pathology Lab
STOCKSCH 112. With lab. Diagnosis and management of turfgrass diseases. Diagnosis techniques and appropriate cultural, chemical, genetic, and biological management strategies.
Seven-week course; last seven weeks of the semester.
Prerequisites: STOCKSCH 111; Turfgrass Management majors only
2 credits/spring sem

Introductory Plant Pathology Lab
STOCKSCH 113. With lab. A field laboratory on the diagnosis and management of the health problems of woody plants. Students learn to recognize the major plant diseases of trees and shrubs using plant materials on campus. Disease management options presented on an individual basis in a clinical context.
Prerequisite: STOCKSCH 111
2 credits/fall sem

Organic Farming and Gardening (Gen Ed BS)
STOCKSCH 120. With discussion. Introduction to principles of soil fertility and crop management by organic procedures which are contrasted and evaluated against conventional chemical methods of farming.
4 credits/both sem
Pesticide Certification
STOCKSCH 170. Independent preparation for the state pesticide certification exam and licensure. The State Pesticide Exam Study Manual is used and available for purchase either online or at the UMass Extension Bookstore. Exams are given at various times throughout the state. Students must apply to take the exam; applications must be submitted by the deadline date (one week prior to the exam). Refer to www.mass.gov/pesticide-examination-and-licensing or call 617-626-1785 for dates of Massachusetts exams.
Prerequisite: consent of instructor
1 credit/both sem

Principles of Pesticide Management
STOCKSCH 182. Topics include state and federal pesticide laws and regulations, pesticides and the environment, handling and storage of pesticides, classes and formulations of pesticides, safety and application equipment, understanding the pesticide label, toxicity, proper calculation and mixing of pesticides, and history of pesticide use. Includes preparation for the Massachusetts Pesticide Core Exam.
2 credits/spring sem

Introduction to Permaculture
STOCKSCH 186. Foundation in permaculture history, ethics, principles, design process, and practical applications rooted in the observation of natural systems. Students are trained to be critical thinkers, observers, and analysts of the world(s) around them and are provided with the tools necessary for designing and inspiring positive change.
3 credits/fall sem

First Year Seminar
STOCKSCH 192F. An overview course designed to provide students with information, opportunities, and skills to ease their transition into college and build a successful foundation necessary to reach their educational goals.
Prerequisite: Stockbridge freshmen only
1 credit/fall sem

Independent Study
STOCKSCH 196. Independent work related to some area of the food crops and green industries.
Prerequisites: consent of instructor and program coordinator
1-6 credits/both sem

Sustainable Food & Farming Internship
STOCKSCH 198F. Required of all students majoring in Sustainable Food and Farming. Three- or five-month internship in the specific field of study. Submission of reports required.
Prerequisite: Sustainable Food and Farming majors only
3-4 credits/spring sem
Horticulture Internship
STOCKSCH 198G. Required of all students majoring in Sustainable Horticulture. Three-month (June-August) internship in the specific field of study. Submission of reports required. 
Prerequisite: Sustainable Horticulture majors only
3 credits/spring sem

Turfgrass Internship
STOCKSCH 198T. Required of all students majoring in Turfgrass Management. Three-month (June-August) internship in the specific field of study. Submission of reports required. 
Prerequisites: STOCKSCH 230 with minimum grade of “C”; Turfgrass Management majors only
3 credits/spring sem

Plant Propagation
STOCKSCH 200. With lab. The basic principles and techniques for propagating plants by both sexual and asexual means, including seeds, cuttings, bulbs, and tissue culture. The hormonal and physiological factors affecting rooting, seed dormancy, grafting, budding, and layering. 
Prerequisite: STOCKSCH 108 or 100-level biology course
3 credits/fall sem/odd years

Introductory Turfgrass Management
STOCKSCH 230. With lab. Basic principles of selecting and managing turfgrass for home lawns, parks, golf courses, and other turf areas. Topics include: climatic adaptation, grass identification, establishment practices, pest control, fertility, environmental stresses, etc. 
Prerequisites: STOCKSCH 105 and STOCKSCH 108 (may be taken concurrently)
4 credits/fall sem

Turf Machinery
Seven-week course; last seven weeks of the semester. 
1 credit/spring sem

Irrigation & Drainage
STOCKSCH 234. Principles of hydraulics and system design for turf and landscapes with an emphasis on golf courses. Irrigation systems, equipment performance, installation practices, operation procedures and troubleshooting. Drainage of sports turf also included. 
2 credits/spring sem

Pruning Fruit Crops
2 credits/spring sem
Applied Calculations in Turf Management  
**STOCKSCH 240.** Calculations involving area and volume measurements, fertilizer and pesticide requirements, cost analysis, seed calculations, irrigation calculations, and calculations relating to spreader and sprayer calibrations.  
*Prerequisite: STOCKSCH 230 with minimum grade of “C”*  
2 credits/spring sem

Herbaceous Plants  
**STOCKSCH 255.** Study and identification of herbaceous plants; their uses as ornamental plants for home, park, and business.  
*Prerequisite: Stockbridge students only*  
3 credits/spring sem

Sustainable Agriculture  
**STOCKSCH 265.** Exploration of ethical, practical and scientific aspects of agricultural sustainability, including economic, social and environmental impacts of food and farming. Use of systems thinking tools to compare industrial and ecological agriculture.  
*Prerequisite: Sustainable Food and Farming majors only or consent of instructor*  
3 credits/fall sem

Turfgrass Physiology & Ecology  
**STOCKSCH 275.** First half of the semester: an introduction to basic concepts in agricultural chemistry as related to the growth and culture of turf grasses. Second half of the semester: the overall growth and development of grasses, including such areas as soil fertility and mineral nutrition.  
*Prerequisite: STOCKSCH 230 with minimum grade of “C”*  
3 credits/spring sem

Organic Weed Control  
**STOCKSCH 290W.** Focus on organic weed control by exploring various systems and approaches to weed management to reduce losses to crop yield and quality.  
3 credits/spring sem

Independent Study  
**STOCKSCH 296.** Sophomore-level educational project with a faculty member related to some area of the food crops or green industries.  
*Prerequisite: consent of instructor*  
1-6 credits/both sem

Stockbridge School Teaching Experience  
**STOCKSCH 296T.** Students gain experience in teaching introductory level (100-200) courses. Students will be expected to demonstrate specific competencies related to labs and assisting students; lead review sessions; gain experience in all aspects of teaching a Stockbridge School class.  
*Prerequisites: successful completion of the course and related prerequisites in which the student plans to TA; consent of instructor*  
1-2 credits/both sem
Practicum

**STOCKSCH 298.** Pre-professional work experience related to some area of the food crops and green industries.

*Prerequisite: consent of instructor*

1-6 credits/both sem

Deciduous Orchards Science

**STOCKSCH 300.** With lab. Principles and practices involved in the establishment and management of deciduous orchards.

*Prerequisite: STOCKSCH 108 (may be taken concurrently)*

3 credits/fall sem/odd years

Small Fruit Production

**STOCKSCH 305.** With lab. Principles and practices governing the establishment and management of small fruit plantings.

*Prerequisite: STOCKSCH 108 (may be taken concurrently)*

3 credits/fall sem/even years

Principles of Weed Management

**STOCKSCH 310.** With lab. History of weed control; importance of weeds and their relationship to people and the environment; ecology of weeds, competition, persistence and survival mechanisms; reproduction, seed germination, and dormancy; methods of weed control, cultural, biological, chemical, and integrated pest management strategies; classification of herbicides and their selectivity; soil factors affecting herbicide performance, persistence and degradation; application equipment and calibration of sprayers; weed management systems for various crops and non-crop areas.

*Prerequisite: STOCKSCH 108 or 100-level biology course*

3 credits/fall sem

Greenhouse Management

**STOCKSCH 315.** With lab. Introduction to the greenhouse environment and the technology used in production of greenhouse crops. Greenhouse experiments in crop production; exercises on greenhouse structures, heating and cooling, growing media, crop nutrition, photoperiod control and lighting, and crop scheduling; field trip to local greenhouses.

*Prerequisites: STOCKSCH 108 (may be taken concurrently) or 100-level biology course; Stockbridge students only or consent of instructor*

4 credits/fall sem/odd years

Organic Vegetable Production

**STOCKSCH 320.** Focus on organic insect, disease, and weed control, greenhouse production and construction, irrigation practices, planting and fertility, harvesting and marketing techniques, as well as how to manage money, people and natural resources.

*Prerequisite: Sustainable Food and Farming majors only*

3 credits/fall sem
Insect Biology
STOCKSCH 326. With optional lab and field trips. How insects solve their problems of maintenance, survival, reproduction, etc., and how entomologists apply this knowledge in managing them. Topics include insect evolution, plant and insect interactions, biodiversity and conservation of insects, behavior, and insect pest management. Emphasis on various insect models (e.g., Drosophila) as they relate to major research in biology.
3 credits/fall sem

Principles and Practices of Greenhouse Cultivation
STOCKSCH 335. With lab. Greenhouse culture of spring greenhouse crops.
Prerequisites: STOCKSCH 108; Sustainable Horticulture majors only
4 credits/spring sem

Advanced Turfgrass Management
STOCKSCH 340. Management of environmental stress in turfgrass. Special practices in managing high-quality turfgrass areas such as golf courses, athletic fields, and ornamental areas.
Prerequisite: STOCKSCH 275 with minimum grade of “C”
3 credits/spring sem

Sustainable Soil and Crop Management
STOCKSCH 350. With lab. Maintenance and enhancement of long-term productivity and sustainability of soil in food and feed production. Students will gain an integrated knowledge of soil and crop influences on cropping systems.
Prerequisite: STOCKSCH 105 (may be taken concurrently) or consent of instructor
3 credits/fall sem

Landscape Plant Production
STOCKSCH 360. With lab. Cultural practices of field and container production; how these practices and environmental factors influence nursery crop growth and development. Topics include: site selection, planting and spacing, mineral nutrition, harvesting, irrigation practices, pest management, and overwintering. Basic economic management of nursery crops production and marketing reviewed.
Prerequisites: STOCKSCH 105; SUSTCOMM 335 highly recommended
4 credits/fall sem/odd years

Tropical Agriculture
STOCKSCH 370. Tropical regions of the world, their environment and classification; influence of climate, population, and socio-economic conditions on agriculture; major crops and cropping systems of sub-humid tropics; introduction to dry land agriculture; importance of rainfall and irrigation on productivity; green revolution; desertification; present and future research needs of region, and state of agricultural technology.
3 credits/spring sem
Sustainable Grape Production  
**STOCKSCH 390G.** With lab. Exploration of grape origins, domestication, and fundamental principles of grape growing, both domestically and globally. Practices specific to the winter, such as pruning, will be included.  
Seven-week course; first seven weeks of the semester.  
3 credits/spring sem

Independent Study  
**STOCKSCH 396.** Upper-level project for students who have completed introductory courses in biology/botany, soils and/or entomology.  
*Prerequisite: consent of instructor*  
1-6 credits/both sem

Plant Trends in Landscape Horticulture  
**STOCKSCH 397PT.** Description unavailable.  
*Prerequisite: STOCKSCH 108*  
3 credits/fall sem/even years

Greenhouse Practicum  
**STOCKSCH 398G.** Focus on greenhouse venting and temperature control, maintaining outdoor gardens, harvesting of floricultural crops, post-harvest handling of floricultural crops, fertilization, propagation (by seed, cuttings, division), greenhouse maintenance, operation of greenhouse equipment (fertilizer injector).  
*Prerequisite: consent of instructor*  
1 credit/both sem

**SUSTAINABLE COMMUNITY**

**SUSTCOMM 335.** With lab. Introduction to 200 basic ornamental plants used in landscape architectural, horticultural, arboricultural, and other design uses; their identification, uses, and cultural requirements. Two weekly campus field trips. Workbook with sketches required.  
4 credits/fall sem
### ACADEMIC CALENDAR

#### 2020 - 2021

#### FALL 2020

<table>
<thead>
<tr>
<th>Date</th>
<th>Day</th>
<th>Event Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>August 24</td>
<td>Monday</td>
<td>First day of classes</td>
</tr>
<tr>
<td>September 7</td>
<td>Monday</td>
<td>Holiday (Labor Day) CLASSES WILL BE HELD</td>
</tr>
<tr>
<td>September 7</td>
<td>Monday</td>
<td>Last day to ADD or Drop any class with no record</td>
</tr>
<tr>
<td>October 12</td>
<td>Monday</td>
<td>Holiday (Columbus Day) CLASSES WILL BE HELD</td>
</tr>
<tr>
<td>October 16</td>
<td>Friday</td>
<td>Last day to Drop with ‘W’ and select ‘P/F’</td>
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<tr>
<td>October 26</td>
<td>Monday</td>
<td>Registration begins for Spring 2021</td>
</tr>
<tr>
<td>November 11</td>
<td>Wednesday</td>
<td>Holiday (Veterans’ Day) CLASSES WILL BE HELD</td>
</tr>
<tr>
<td>November 20</td>
<td>Friday</td>
<td>Last day of classes</td>
</tr>
<tr>
<td>November 20</td>
<td>Friday</td>
<td>Thanksgiving recess begins following end of classes</td>
</tr>
<tr>
<td>November 27</td>
<td>Friday</td>
<td>Reading Day</td>
</tr>
<tr>
<td>November 28</td>
<td>Saturday</td>
<td>Reading Day</td>
</tr>
<tr>
<td>November 30</td>
<td>Monday</td>
<td>Final examinations begin; exams to be administered remotely</td>
</tr>
<tr>
<td>December 4</td>
<td>Friday</td>
<td>Last day of final examinations; semester ends</td>
</tr>
<tr>
<td>December 14</td>
<td>Monday</td>
<td>Final grades due by Midnight</td>
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</table>

Number of class meetings: MTuWThF: 13

#### SPRING 2021

<table>
<thead>
<tr>
<th>Date</th>
<th>Day</th>
<th>Event Description</th>
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<tbody>
<tr>
<td>January 19</td>
<td>Tuesday</td>
<td>First day of classes</td>
</tr>
<tr>
<td>February 1</td>
<td>Monday</td>
<td>Last day to ADD or Drop any class with no record</td>
</tr>
<tr>
<td>February 15</td>
<td>Monday</td>
<td>Holiday (Presidents’ Day)</td>
</tr>
<tr>
<td>February 16</td>
<td>Tuesday</td>
<td>MONDAY CLASS SCHEDULE will be followed</td>
</tr>
<tr>
<td>March 12</td>
<td>Friday</td>
<td>Final grades close for freshmen leaving for internship; grades submitted in May 2021</td>
</tr>
<tr>
<td>March 14</td>
<td>Sunday</td>
<td>Spring recess begins</td>
</tr>
<tr>
<td>March 15</td>
<td>Monday</td>
<td>Internships begin for freshmen majoring in ARCF and LDCONT</td>
</tr>
<tr>
<td>March 22</td>
<td>Monday</td>
<td>Classes resume</td>
</tr>
<tr>
<td>March 23</td>
<td>Tuesday</td>
<td>Last day to Drop with ‘W’ and select ‘P/F’</td>
</tr>
<tr>
<td>April 5</td>
<td>Monday</td>
<td>Registration begins for Fall 2021</td>
</tr>
<tr>
<td>April 19</td>
<td>Monday</td>
<td>Holiday (Patriot’s Day)</td>
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<tr>
<td>April 21</td>
<td>Wednesday</td>
<td>MONDAY CLASS SCHEDULE will be followed</td>
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<tr>
<td>April 28</td>
<td>Wednesday</td>
<td>Last day of classes</td>
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<tr>
<td>April 29</td>
<td>Thursday</td>
<td>Reading Day</td>
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<tr>
<td>April 30</td>
<td>Friday</td>
<td>Final examinations begin</td>
</tr>
<tr>
<td>May 1</td>
<td>Saturday</td>
<td>Reading Day</td>
</tr>
<tr>
<td>May 6</td>
<td>Thursday</td>
<td>Last day of final examinations; semester ends</td>
</tr>
<tr>
<td>May 8</td>
<td>Saturday</td>
<td>Commencement</td>
</tr>
<tr>
<td>May 11</td>
<td>Tuesday</td>
<td>Final grades due by Midnight; grades also submitted for internship students</td>
</tr>
</tbody>
</table>

Number of class meetings: MTuWThF: 13
Give Your Best To Dear Old Stockbridge

Body - Heart - Soul

Unlock Your Potential

1918