Top 5 Global University for Agricultural Sciences

UMassAmherst
Stockbridge School of Agriculture
STOCKBRIDGE SCHOOL OF AGRICULTURE
Paige Laboratory
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413-545-2222

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  2023-2024
OUR TWO-YEAR ASSOCIATE DEGREE PROGRAMS

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.
How to Apply

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

Application Deadlines

Fall Semester

- **Early Action** November 5
- **Regular Decision** March 15 (encouraged to apply earlier)

Spring Semester

**Spring Semester applications are generally not accepted due to prerequisites required for spring semester courses**

Application Materials

Apply online through the Common Application at https://apply.commonapp.org

**First-Year Applicants**

- Common Application
- Application Fee
  - nonrefundable $85 application fee
- Essay
- Letter of Recommendation
- Transcripts
  - official high school transcript (grades 9-11) or GED scores
- Test Scores (Optional)
  - standardized tests are optional for first-year entering applicants
  - SAT and/or ACT scores sent directly from the testing agency
  - UMass Amherst SAT code is 3917; ACT code is 1924
- Gap Explanation
  - if you have not been enrolled in college coursework for one or more semesters after high school graduation, please provide an explanation for the gap/s in your education. This may take the form of a resume, list of activities, or an essay

**Transfer Applicants**

- Common Application
- Application Fee
  - nonrefundable $85 application fee
- Essay
- Letter of Recommendation is not required for transfer applicants
- Transcripts
  - official college transcripts sent from ALL colleges/universities attended
  - if applying during first year of college after high school graduation, or from colleges with non-standard grading systems, you must also submit official high school transcripts
• Test Scores (Optional)
  - standardized tests are optional
  - SAT and/or ACT scores sent directly from the testing agency
  - TOEFL / IELTS scores (proof of English language proficiency)
  - UMass Amherst SAT code is 3917; ACT code is 1924

• Gap Explanation
  - if you have not been enrolled in college coursework for one or more semesters
  after high school graduation, please provide an explanation for the gap(s) in your
  education. This may take the form of a resume, a list of activities or an essay

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
    https://www.umass.edu/admissions/undergraduate-admissions/apply/international-students
  OR
  International Transfer Applicants
    https://www.umass.edu/admissions/undergraduate-admissions/apply/international-students/
    international-transfer-0

Applicants with Learning Disabilities
  Learn more about support for students with learning disabilities at:
    https://www.umass.edu/disability/students/accommodations-students

Part-Time Enrollment
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); https://www.umass.edu/uww

Veterans
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 assists Veterans, Guardsmen, and
Reservists to access the benefits available to them through the Montgomery GI Bill (MGIB), Vocational Rehabili-
tation, the Post-9/11 GI Bill, 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 about the process of applying for Veteran Educational Benefits:
https://www.umass.edu/veterans/educational-benefits-and-financial-aid
You may also contact:

**Veterans Benefits Certifying Official**
Michael Chan  
23 Dickinson Hall  
155 Hicks Way  
UMass Amherst  
Amherst, MA, 01003  
413-545-5792

**Student Veteran Resource Center (SVRC)**
Matt Bachmann, Director  
Student Veteran Resource Center  
18/19 Dickinson Hall  
155 Hicks Way  
UMass Amherst  
Amherst, MA, 01003  
413-545-0939  
bachmann@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  
243 Whitmore Administration Building  
UMass Amherst  
181 Presidents Drive  
Amherst, MA  01003  
413-545-0801  
finaid@finaid.umass.edu  
www.umass.edu/financialaid/undergraduate

It all starts with the FAFSA!
To apply for financial aid, you need to complete the Free Application for Federal Student Aid (FAFSA). The FAFSA is used to determine your eligibility for federal, state and institutional programs. The FAFSA should be completed online at studentaid.gov each academic year. The FAFSA should be filed before the priority filing date for maximum consideration; https://studentaid.gov/apply-for-aid/fafsa/fafsa-deadlines. The Federal School Code for UMass Amherst is 002221.
Housing
All freshmen who are enrolled full-time (12 credits) are required to live on campus.

Exemptions from the residency requirement include:
• sophomores, juniors, seniors, graduate students
• married, divorced or separated students
• parents of dependent child(ren)
• veterans of the U.S. Armed Forces who have submitted a DD214 form to Residential Life
• 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 to Residential Life by students seeking an exemption from the residency requirement. Commuting students must submit a Commuter Form to Residential Life.

Residential Life Student Services
Dawn Bond, Director
235 Whitmore Administration Building
181 Presidents Drive
UMass Amherst
Amherst, MA  01003
413-545-2100
Living@umass.edu
https://www.umass.edu/living/assign

Meal Plans
Four all-you-care-to-eat dining commons are conveniently located across campus. Guest meals and Dining Dollars and 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 YCMP 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.
Stockbridge Major: Arboriculture and Community Forest Management
Landscape Contracting
Sustainable Food and Farming
Sustainable Horticulture
Turfgrass Management

Offered to Students from: ME, NH, RI, VT
CT, RI
ME, NH, RI, VT
ME, RI
ME, NH, RI, VT

For more information, contact:
Thomas Fritsch, NERSP representative, 213 Whitmore Building; 413-545-0555; tfritsch@umass.edu
New England Board of Higher Education, 45 Temple Place, Boston, MA 02111; phone 857-284-4879 or 617-357-9620; http://www.nebhe.org/tuitionbreak

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: https://www.umass.edu/stockbridge/current-students/scholarships

Stockbridge Alumni Community
We are a nationally known talent hub for agriculture and plant sciences. Many of our alumni are employers, and they seek to hire new "Stockies" upon graduation from our programs. See our CareerNet website: http://stockbridge.cns.umass.edu/career-net

Transcripts
Two types of transcripts are available: official transcripts and unofficial transcripts. For all transcript requests, please go to: https://www.umass.edu/registrar/students/transcripts

EXPENSES

Estimated Annual Expenses for the 2023-2024 Academic Year

In-State
Tuition & Fees $17,357.00
Room & Board (average) $15,437.00
Books & Supplies (average) $1,500.00
Personal & Transportation (average) $1,400.00
Total $35,694.00
### New England Regional Program (NERSP)

<table>
<thead>
<tr>
<th>Item</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tuition &amp; Fees</td>
<td>$32,356.00</td>
</tr>
<tr>
<td>Room &amp; Board (average)</td>
<td>$15,437.00</td>
</tr>
<tr>
<td>Books &amp; Supplies (average)</td>
<td>$1,500.00</td>
</tr>
<tr>
<td>Personal &amp; Transportation (average)</td>
<td>$1,400.00</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>$50,693.00</strong></td>
</tr>
</tbody>
</table>

### Out-of-State

<table>
<thead>
<tr>
<th>Item</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tuition &amp; Fees</td>
<td>$39,293.00</td>
</tr>
<tr>
<td>Room &amp; Board (average)</td>
<td>$15,437.00</td>
</tr>
<tr>
<td>Books &amp; Supplies (average)</td>
<td>$1,500.00</td>
</tr>
<tr>
<td>Personal &amp; Transportation (average)</td>
<td>$1,400.00</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>$57,630.00</strong></td>
</tr>
</tbody>
</table>

### Other Fees

<table>
<thead>
<tr>
<th>Item</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>CNS Lab Fees</td>
<td>$95.00  per lab course</td>
</tr>
<tr>
<td>Commencement Fee (one-time fee)</td>
<td>$140.00</td>
</tr>
<tr>
<td>Late Fee</td>
<td>$100.00</td>
</tr>
<tr>
<td>New Student Enrollment Fee (one-time fee)</td>
<td>$400.00 charged during first semester</td>
</tr>
<tr>
<td>Returned Check Fee</td>
<td>$25.00</td>
</tr>
<tr>
<td>Returned E-Check Payment</td>
<td>$30.00</td>
</tr>
<tr>
<td>Transcript Fee</td>
<td>$3.00  per electronic copy</td>
</tr>
<tr>
<td></td>
<td>$5.50  per paper copy</td>
</tr>
<tr>
<td>Ucard Replacement</td>
<td>$30.00</td>
</tr>
</tbody>
</table>

### Optional Fees

<table>
<thead>
<tr>
<th>Item</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Child Care</td>
<td>$1.00  per semester</td>
</tr>
<tr>
<td>Mass PIRG</td>
<td>$11.00  per semester</td>
</tr>
<tr>
<td>Student Health Benefit Plan</td>
<td>$1,116.00 per semester; can be waived if student has other insurance</td>
</tr>
</tbody>
</table>

The Bursar's Office has more detailed information about tuition and fees:
https://www.umass.edu/bursar/tuition-and-fees

### Refunds Due to Withdrawal

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

- **by the End of the First Day of Class** 100% refund
- **by the End of the Second Week of Classes** 80% refund
- **by the End of the Third Week of Classes** 60% refund
- **by the End of the Fourth Week of Classes** 40% refund
- **by the End of the Fifth Week of Classes** 20% refund
- **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>E</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></td>
<td>Min. Cum. Ave</td>
<td>Cum Ave. Range</td>
<td>Cum Ave. Range</td>
</tr>
<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 to remove the academic hold

**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 of Agriculture 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/university
- must seek approval for courses taken at another college/university from the Stockbridge School director prior to enrollment
- must successfully complete the courses taken at another college/university with a minimum grade of “C”

After one semester’s absence and the successful completion of six (6) credits at another college/university, a student may submit an Application for Re-Enrollment with the Stockbridge School Office. Applications for Re-Enrollment 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 an academic 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 Academic Dismissal may be granted Immediate Reinstatement if the Stockbridge School director determines that extenuating circumstances exist. Although these students will have been formally suspended or dismissed (the Suspension or Dismissal will be documented 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 2.00 cumulative GPA
• complete a minimum of 60 credits
• satisfy all financial obligations to the School and University
**Arboriculture and Community Forest Management**

Kristina Bezanson, M.S., 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.

### First Semester

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

**Total 18**

### Second Semester (seven weeks)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>NRC 191A</td>
<td>2</td>
<td>Seminar in Arboriculture &amp; Community Forestry</td>
</tr>
<tr>
<td><strong>NRC 198Y</strong></td>
<td><strong>4</strong></td>
<td>Arboriculture Internship (April-August)</td>
</tr>
<tr>
<td>NRC 210</td>
<td>2</td>
<td>Arboricultural Field Techniques II</td>
</tr>
<tr>
<td>NRC 333</td>
<td>2</td>
<td>Principles of Arboriculture II</td>
</tr>
<tr>
<td>STOCKSCH 101</td>
<td>2</td>
<td>Insects &amp; Related Forms</td>
</tr>
<tr>
<td><strong>STOCKSCH 111</strong></td>
<td><strong>2</strong></td>
<td>Introductory Plant Pathology</td>
</tr>
</tbody>
</table>

**Total 14**

### Third Semester

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>MATH 100/101/104</strong></td>
<td><strong>3</strong></td>
<td>Math Course Based on Math Placement Exam Score</td>
</tr>
<tr>
<td><strong>NRC 305</strong></td>
<td><strong>3</strong></td>
<td>Commercial Arboriculture</td>
</tr>
<tr>
<td>STOCKSCH 109</td>
<td>3</td>
<td>Insects of Ornamentals</td>
</tr>
<tr>
<td>STOCKSCH 230</td>
<td>4</td>
<td>Introductory Turfgrass Management</td>
</tr>
<tr>
<td>ELECTIVE</td>
<td>3</td>
<td>Optional</td>
</tr>
<tr>
<td>GEN ED</td>
<td>3</td>
<td>Advisor Approved</td>
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**Total 13-16**

### Fourth Semester

<table>
<thead>
<tr>
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<th>Credits</th>
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<tbody>
<tr>
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<td><strong>3-4</strong></td>
<td>ENGLWRIT Course Based on Writing Placement Exam Score</td>
</tr>
<tr>
<td><strong>NRC 310</strong></td>
<td><strong>3</strong></td>
<td>Community Forestry</td>
</tr>
<tr>
<td>ELECTIVES</td>
<td><strong>9-13</strong></td>
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</tr>
<tr>
<td>LANDARCH 297M</td>
<td>3</td>
<td>Business Concepts of Landscape Contracting</td>
</tr>
<tr>
<td>NRC 225</td>
<td>3</td>
<td>Forests and People</td>
</tr>
<tr>
<td>NRC 235</td>
<td>2</td>
<td>Sensible Pruning for Beginners &amp; Experts</td>
</tr>
<tr>
<td>NRC 261</td>
<td>3</td>
<td>Wildlife Conservation</td>
</tr>
<tr>
<td>GEN ED</td>
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</table>

**Total 15-20**

**Grand Total 60-68**
**LANDSCAPE CONTRACTING**  
Mike Davidsohn, MLA, 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.

<table>
<thead>
<tr>
<th>First Semester</th>
<th>Credits</th>
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<tbody>
<tr>
<td><strong>LANDCONT 112</strong></td>
<td>Introduction to Landscape Design</td>
</tr>
<tr>
<td>STOCKSCH 105</td>
<td>Soils</td>
</tr>
<tr>
<td>STOCKSCH 108</td>
<td>Introductory Botany</td>
</tr>
<tr>
<td>STOCKSCH 192F</td>
<td>First Year Seminar</td>
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<tr>
<td><strong>SUSTCOMM 335</strong></td>
<td>Plants in Landscape</td>
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<tr>
<td><strong>LANDARCH 297C</strong></td>
<td>Studio III</td>
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<tr>
<td><strong>LANDCONT 105</strong></td>
<td>Landscape Drafting</td>
</tr>
<tr>
<td><strong>LANDCONT 198Y</strong></td>
<td>Landscape Contracting Internship (April-August)</td>
</tr>
<tr>
<td><strong>STOCKSCH 101</strong></td>
<td>Insects &amp; Related Forms</td>
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<tr>
<td><strong>STOCKSCH 111</strong></td>
<td>Introductory Plant Pathology</td>
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<td><strong>Total</strong></td>
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<tbody>
<tr>
<td><strong>LANDCONT 107</strong></td>
<td>Land Form</td>
</tr>
<tr>
<td>MATH 100/101/104</td>
<td>Math Course Based on Math Placement Exam Score</td>
</tr>
<tr>
<td><strong>STOCKSCH 109</strong></td>
<td>Insects of Ornamentals</td>
</tr>
<tr>
<td><strong>STOCKSCH 230</strong></td>
<td>Introductory Turfgrass Management</td>
</tr>
<tr>
<td><strong>Total</strong></td>
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</table>

<table>
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</thead>
<tbody>
<tr>
<td><strong>ENGLWRIT 111/112</strong></td>
<td>ENGLWRIT Course Based on Writing Placement Exam Score</td>
</tr>
<tr>
<td><strong>LANDARCH 294A</strong></td>
<td>Construction Materials</td>
</tr>
<tr>
<td><strong>LANDARCH 294B</strong></td>
<td>Construction Materials Practicum</td>
</tr>
<tr>
<td><strong>LANDARCH 297M</strong></td>
<td>Business Concepts of Landscape Contracting</td>
</tr>
<tr>
<td><strong>LANDCONT 213</strong></td>
<td>Small Property Design</td>
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<tr>
<td><strong>STOCKSCH 234</strong></td>
<td>Irrigation and Drainage</td>
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<td><strong>Total</strong></td>
<td><strong>17-18</strong></td>
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</tbody>
</table>

*Grand Total 61-62*
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>
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</thead>
<tbody>
<tr>
<td>STOCKSCH 105</td>
<td>Soils</td>
</tr>
<tr>
<td>STOCKSCH 108</td>
<td>Introductory Botany</td>
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<tr>
<td>STOCKSCH 120</td>
<td>Organic Farming and Gardening</td>
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<tr>
<td>STOCKSCH 192F</td>
<td>First Year Seminar</td>
</tr>
<tr>
<td><strong>STOCKSCH 320</strong></td>
<td><strong>Organic Vegetable Production</strong></td>
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<tr>
<td><strong>Total</strong></td>
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<table>
<thead>
<tr>
<th>Second Semester (1st seven weeks)</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>STOCKSCH 101</td>
<td><strong>Insects &amp; Related Forms</strong></td>
</tr>
<tr>
<td>STOCKSCH 104</td>
<td>Plant Nutrients</td>
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<tr>
<td><strong>STOCKSCH 111</strong></td>
<td><strong>Introductory Plant Pathology</strong></td>
</tr>
<tr>
<td><strong>STOCKSCH 198F</strong></td>
<td><strong>Sustainable Food &amp; Farming Internship (3-5 months)</strong></td>
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<tr>
<td>SUSFD ELECTIVES</td>
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<td>MATH 100/101/104</td>
<td>Math Course Based on Math Placement Exam Score</td>
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<tr>
<td>STOCKSCH 270</td>
<td>Sustainable Soil and Crop Management</td>
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<tr>
<td>SUSFD ELECTIVES</td>
<td>Advisor Approved</td>
</tr>
<tr>
<td><strong>Total</strong></td>
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<tr>
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<td>SUSFD ELECTIVES</td>
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<td></td>
</tr>
<tr>
<td></td>
<td>Grand Total <strong>61-63</strong></td>
</tr>
</tbody>
</table>

**APPROVED SUSTAINABLE FOOD AND FARMING ELECTIVES**

- minimum of 30 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)**

| ANIML SCI | Animal Care & Welfare | 4 cr |  fall sem |
| NRC | Forests and People | 3 cr |  spring sem |
| RES-ECON | Environmental Economics | 4 cr |  spring sem |
| RES-ECON | Natural Resource Economics | 4 cr |  fall sem |

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

| STOCKSCH 326 | Insect Biology | 3 cr |  fall sem |
| STOCKSCH 581 | Integrated Pest Management | 4 cr |  fall sem |
## Sustainable Food and Farming

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

#### Plant & Animal Systems (minimum of two classes)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANIMLSCI 103</td>
<td>Introductory Animal Management</td>
<td>4 cr</td>
<td>spring sem</td>
</tr>
<tr>
<td>ANIMLSCI 260</td>
<td>Animal Care &amp; Welfare</td>
<td>4 cr</td>
<td>fall sem</td>
</tr>
<tr>
<td>STOCKSCH 165</td>
<td>Intro to Sustainable Agriculture &amp; Food Sys</td>
<td>3 cr</td>
<td>fall sem</td>
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</table>

#### Practica & Related Experiences (minimum of one class)

<table>
<thead>
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<th>Course Title</th>
<th>Credits</th>
<th>Semester</th>
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<tbody>
<tr>
<td>ANIMLSCI 238</td>
<td>Dairy Calf Management</td>
<td>2 cr</td>
<td>fall sem</td>
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<tr>
<td>ANIMLSCI 239</td>
<td>Livestock Classic</td>
<td>1 cr</td>
<td>spring sem</td>
</tr>
<tr>
<td>ANIMLSCI 251</td>
<td>Dorset Sheep Management II</td>
<td>2 cr</td>
<td>spring sem</td>
</tr>
<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 298</td>
<td>Practicum</td>
<td>1+ cr</td>
<td>both sem</td>
</tr>
<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>
</tr>
<tr>
<td>STOCKSCH 298</td>
<td>Practicum</td>
<td>1+ cr</td>
<td>both sem</td>
</tr>
<tr>
<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>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Semester</th>
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</thead>
<tbody>
<tr>
<td>ANIMLSCI 103</td>
<td>Introductory Animal Management</td>
<td>4 cr</td>
<td>spring sem</td>
</tr>
<tr>
<td>ANIMLSCI 332</td>
<td>Basic Animal Nutrition &amp; Feeding</td>
<td>4 cr</td>
<td>spring sem</td>
</tr>
<tr>
<td>STOCKSCH 370</td>
<td>Tropical Agriculture</td>
<td>3 cr</td>
<td>spring sem</td>
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</table>
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 Code</th>
<th>Course Name</th>
<th>Credits</th>
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<tbody>
<tr>
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<td>STOCKSCH 105</td>
<td>Soils</td>
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<td>STOCKSCH 192F</td>
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**Total 12**

### Second Semester (1st seven weeks)

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<tbody>
<tr>
<td>STOCKSCH 101</td>
<td>Insects &amp; Related Forms</td>
<td>2</td>
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<td>STOCKSCH 104</td>
<td>Plant Nutrients</td>
<td>2</td>
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<tr>
<td>STOCKSCH 111</td>
<td>Introductory Plant Pathology</td>
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**Total 12**

### (Full Semester)

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<tr>
<td>STOCKSCH 198G</td>
<td>Horticulture Internship (June-August)</td>
<td>3</td>
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<tr>
<td>STOCKSCH 315</td>
<td>Greenhouse Management</td>
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**SUSHORT ELECTIVES Advisor Approved**

<table>
<thead>
<tr>
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**Total 16**

### Third Semester

<table>
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<tbody>
<tr>
<td>STOCKSCH 109</td>
<td>Insects of Ornamentals</td>
<td>3</td>
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<tr>
<td>STOCKSCH 200</td>
<td>Plant Propagation (odd years)</td>
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**SUSHORT ELECTIVES Advisor Approved**

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**Total 16**

### Fourth Semester

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**SUSHORT ELECTIVES Advisor Approved**

<table>
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**Total 17-18**

**Grand Total 61-62**

### Approved Sustainable Horticulture Electives

<table>
<thead>
<tr>
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<th>Course Name</th>
<th>Credits</th>
<th>Semester</th>
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<tbody>
<tr>
<td>LANDARCH 294A</td>
<td>Construction Materials</td>
<td>3 cr</td>
<td>spring sem</td>
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<tr>
<td>LANDARCH 294B</td>
<td>Construction Materials Practicum</td>
<td>1 cr</td>
<td>spring sem</td>
</tr>
<tr>
<td>NRC 100</td>
<td>Environment and Society</td>
<td>4 cr</td>
<td>fall sem</td>
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<tr>
<td>NRC 210</td>
<td>Arboricultural Field Techniques II</td>
<td>2 cr</td>
<td>spring sem</td>
</tr>
<tr>
<td>NRC 232</td>
<td>Principles of Arboriculture</td>
<td>3 cr</td>
<td>fall sem</td>
</tr>
<tr>
<td>NRC 310</td>
<td>Community Forestry</td>
<td>3 cr</td>
<td>spring sem</td>
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<tr>
<td>STOCKSCH 120</td>
<td>Organic Farming and Gardening</td>
<td>4 cr</td>
<td>both sem</td>
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**SUSTAINABLE HORTICULTURE**

**APPROVED SUSTAINABLE HORTICULTURE ELECTIVES (cont.)**

<table>
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<th>Semester</th>
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<tbody>
<tr>
<td>STOCKSCH 165</td>
<td>Intro to Sustainable Agriculture &amp; Food Systms</td>
<td>3 cr</td>
<td>fall sem</td>
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<tr>
<td>STOCKSCH 186</td>
<td>Introduction to Permaculture</td>
<td>3 cr</td>
<td>fall sem</td>
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<tr>
<td>STOCKSCH 230</td>
<td>Introductory Turfgrass Management</td>
<td>4 cr</td>
<td>fall sem</td>
</tr>
<tr>
<td>STOCKSCH 234</td>
<td>Irrigation &amp; Drainage</td>
<td>3 cr</td>
<td>spring sem</td>
</tr>
<tr>
<td>STOCKSCH 270</td>
<td>Sustainable Soil and Crop Management</td>
<td>3 cr</td>
<td>fall sem</td>
</tr>
<tr>
<td>STOCKSCH 275</td>
<td>Turfgrass Physiology &amp; Ecology</td>
<td>3 cr</td>
<td>spring sem</td>
</tr>
<tr>
<td>STOCKSCH 320</td>
<td>Organic Vegetable Production</td>
<td>3 cr</td>
<td>fall sem</td>
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</tbody>
</table>
**Turfgrass Management**
Michelle DaCosta, Ph.D., 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>
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<tbody>
<tr>
<td>ENGLWRIT 111/112</td>
<td>ENGLWRIT Course Based on Writing Placement Exam Score 3-4</td>
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<tr>
<td>STOCKSCH 105</td>
<td>Soils 4</td>
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<td>STOCKSCH 108</td>
<td>Introductory Botany 4</td>
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<td>STOCKSCH 192F</td>
<td>First Year Seminar 1</td>
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<tr>
<td><strong>STOCKSCH 230</strong></td>
<td><strong>Introductory Turfgrass Management</strong> 4</td>
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<tr>
<td><strong>Total</strong></td>
<td><strong>16-17</strong></td>
</tr>
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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 |
| **STOCKSCH 112** | **Turfgrass Pathology Lab** 2 |
| **(FULL SEMESTER)** |
| **STOCKSCH 107** | **Turfgrass Insects** 2 |
| **STOCKSCH 198T** | **Turfgrass Internship (June-August)** 3 |
| **STOCKSCH 275** | **Turfgrass Physiology & Ecology** 3 |
| **Total**      | **16** |

**Third Semester**

| MATH 100/101/104 | Math Course Based on Math Placement Exam Score 3 |
| NRC 232          | Principles of Arboriculture 3 |
| SUSTCOMM 335     | Plants in Landscape 4 |
| ELECTIVE         | Advisor Approved 4 |
| **Total**        | **14** |

**Fourth Semester**

| STOCKSCH 234   | Irrigation & Drainage 3 |
| STOCKSCH 310   | Principles of Weed Managementtt 3 |
| ELECTIVES      | Advisor Approved 9 |
| **SPANISH course** OR **OR** |
| **Total**      | **15** |

**IF TRANSFERRING TO BACHELOR PROGRAM:**

| MATH 104 | Algebra, Analytic Geometry, and Trigonometry 3 |
| RES-ECON 102 | Introduction to Resource Economics 4 |
| GEN ED course                          |
| **Total** | **15** |

Grand Total 61-62
COURSE DESCRIPTIONS

ANIMAL SCIENCE

Introductory Animal Management
ANIMLSCI 103. With lab. An overview of animal agriculture with a focus on management practices related to the health, husbandry, feeding, breeding, and marketing of beef and dairy cattle, small ruminants, swine, poultry, horses, and alternative agricultural species. This will be accomplished through lectures and hands-on experiences during laboratories, barn chores, and lambing watch.
Prerequisite: ANIMLSCI 101 with minimum grade of C- or consent of instructor and program coordinator
4 credits/spring sem

Dairy Calf Management
ANIMLSCI 238. Experiential learning class involving the daily care and management of pre- and post-weaned dairy calves on a privately owned dairy. Attendance required at weekly management meetings and completion of a two-week calf feeding block. Close-quarter work required with dairy calves. Under the best of circumstances there is a significant risk of contracting zoonotic diseases. To mitigate this risk students will receive training in zoonotic diseases and will be expected to purchase coveralls and waterproof boots. Additional PPE will be provided.
Prerequisites: 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 239. 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.
Prerequisite: consent of instructor and program coordinator
1 credit/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.
Prerequisite: 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.
Prerequisite: 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.
Prerequisite: consent of instructor and program coordinator
2 credits/spring sem

Animal Care & Welfare (Gen Ed SI)
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

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

COMMUNICATION

Public Speaking
COMM 260. Blend of theory and practice in exploring public speaking. Theory of speech composition, presentation, and evaluation is discussed in relation to public discourse, civic engagement, and the ethics of persuasion. Students practice and develop their own skills by giving several formal and impromptu speeches. Requirements include the ability to pre-record speeches.
3 credits/both 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. The course prepares students for ENGLWRIT 112 by introducing practices used in process-based writing courses.
Prerequisite: performance on the Writing Placement Exam or departmental consent
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: 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 III
LANDARCH 297C. Spaces/places in context introduction to design processes. The relationship of site context factors and design program to the formation of landscape spaces. A series of small problems such as: courtyard, plaza, small park, ceremonial space, each with a well defined program. Site visits and analysis, diagramming relationships between various activities, and developing an understanding of design processes.
Seven week course; first seven weeks of the semester
Prerequisite: Landscape Contracting majors only
3 credits/spring 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: LANDCONT 112 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.
*Prerequisite: Landscape Contracting majors only*
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

Introduction to Landscape Design

**LANDCONT 112.** The landscape media of plants, landforms, structures, and water. Graphic techniques, including modeling, drafting, and plan and cross-section drawings initiated. Examination of built landscape designs in the field and on paper.
*Prerequisite: Landscape Contracting majors 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: Placement Exam Part A score above 10 or MATH 011 or MATH 012
   3 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
   3 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: Placement Exam Part A score above 15 or MATH 011 or MATH 012
   3 credits/both sem

NATURAL RESOURCES CONSERVATION

Environment and Society (Gen Ed SI)
   NRC 100. Exploration of the inherently interdisciplinary environmental challenges facing society. Investigation of 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.
   Prerequisite: 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.
   2 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. 
   Prerequisite: 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. 
   Prerequisite: 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. Introduction 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

Sensible Pruning for Beginners & Experts
   NRC 235. Focus on all aspects of pruning - how-to, timing, tools, types, objectives - and how trees respond to pruning. The course is suitable for all levels of experience and does not require any previous knowledge of tree biology. 
   2 credits/spring 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
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.
3 credits/spring sem

Principles of Arboriculture II: Understanding the Language of Design

NRC 333. Develop skills in communicating with design professionals in this practical applications course. The ability to understand the language of design, and to use the communication tools utilized in professional architectural, design and engineering practice will be presented, through hands-on exercises and assignments. A variety of concepts, tools and techniques will be introduced and students will have the opportunity to enhance their skills at communicating design and engineering concepts to various audiences.
Seven-week course; first seven weeks of the semester. 2 credits/spring sem

RESOURCE ECONOMICS

Introduction to 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 environmental degradation, the valuation of environmental quality, 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
Insects & Related Forms

**STOCKSCH 101.** With lab. Introduction to insect recognition, development, damage, and control. Seven-week course; first seven weeks of the semester.
Prerequisite: Stockbridge students only
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

**STOCKSCH 107.** Principles and practical methods of controlling turf insect pests.
Prerequisites: STOCKSCH 101 (may be taken concurrently); Turfgrass Management majors only
2 credits/spring sem

Introductory Botany

**STOCKSCH 108.** With lab. Focus on 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.
Prerequisite: Stockbridge students only
4 credits/fall sem

Insects of Ornamentals

**STOCKSCH 109.** With lab. 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

Designing a Backyard Homestead
STOCKSCH 119. Exploration of practical home-scale food production techniques, covering kitchen essentials, season extension and food preservation techniques, carpentry skills, tool use and maintenance, as well as activities like sewing, smoking meat, fermentation and making soap and candles. Soil fertility, mini orchards, mushroom foraging, farm energy and water management, greenhouse construction and vegetable growing techniques are included.
Online course.
3 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

Introduction to Sustainable Agriculture and Food Systems
STOCKSCH 165. 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

Pesticide Certification
STOCKSCH 170. Independent preparation for the online 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. All exam registrations, exam sessions, results, and license applications are online. For further information, please refer to: www.mass.gov/guides/applying-for-a-pesticide-exam-license-and-renewal-through-the-eplace-portal
Prerequisite: consent of instructor
1 credit/both 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. Designed to provide First-Year 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 or green industries.
Prerequisite: consent of instructor
1-4 credits/both sem

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

Permaculture Gardening at UMass
STOCKSCH 198P. Hands-on learning about permaculture basics while maintaining the on-campus permaculture demonstration gardens.
1 credit/both 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

Holistic Fruit Production

STOCKSCH 209. Principles and practices governing the establishment and management of fruit plantings from a holistic or systems perspective. Focus on four main small fruit or berry crops (strawberries, raspberries/blackberries, blueberries, and grapes), and four main tree fruit crops (apples, pears, peaches and plums). Information oriented to growing conditions found in the Northeastern U.S., including traditional practices and innovations, organic, IPM and conventional practices.
3 credits/spring sem

Retail Floral Design

STOCKSCH 210. Introductory principles and practices for designing marketable floral arrangements, including weddings and events.
Prerequisite: Stockbridge students only
3 credits/fall sem

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

Irrigation & Drainage

STOCKSCH 234. Principles and management of irrigation systems for agricultural purposes; primary emphasis on golf courses and landscapes. Topics include hydraulics, water use and conservation methods, precipitation rate calculations, design and installation of irrigation systems, maintenance of irrigation system components, troubleshooting, and fiscal considerations. Drainage systems and impacts to turf environments also covered.
3 credits/spring sem

Sustainable Soil and Crop Management

STOCKSCH 270. 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.
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.
Prerequisites: STOCKSCH 230 with minimum grade of “C”; Turfgrass Management majors only
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
1-4 credits/both sem

Practicum
STOCKSCH 298. Pre-professional work experience related to some area of the food crops or green industries.
Prerequisite: consent of instructor
1-4 credits/both sem

Permaculture Practicum
STOCKSCH 298P. Hands-on, in depth experience of how to manage and implement an installation of a permaculture design.
1-4 credits/spring sem

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/even 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 or consent of instructor
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

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

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
1-4 credits/both sem

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
1-2 credits/both sem

Turf Practicum
STOCKSCH 398T. Pre-professional work experience in the field of turfgrass management, including but not limited to golf course management, athletic field maintenance, and professional lawn care.
Prerequisites: STOCKSCH 230 with minimum grade of "C"; consent of instructor
1-3 credits/both sem
Integrated Pest Management

STOCKSCH 581. With lab. Theory and application of the principles of insect, disease, and weed pest management; emphasis on insects. Focus on pest and natural enemy sampling techniques, properties of available control strategies, underlying ecological and behavioral principles, model pest management systems and societal concerns.
4 credits/fall sem

SUSTAINABLE COMMUNITY

Plants in Landscape

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 2023 - 2024

#### FALL 2023

<table>
<thead>
<tr>
<th>Date</th>
<th>Day</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>September 5</td>
<td>Tuesday</td>
<td>First day of classes</td>
</tr>
<tr>
<td>September 11</td>
<td>Monday</td>
<td>Last day to ADD or DROP any class with no record</td>
</tr>
<tr>
<td>October 9</td>
<td>Monday</td>
<td>Holiday (Indigenous Peoples Day)</td>
</tr>
<tr>
<td>October 10</td>
<td>Tuesday</td>
<td>MONDAY CLASS SCHEDULE will be followed</td>
</tr>
<tr>
<td>October 31</td>
<td>Tuesday</td>
<td>Last day to DROP with ‘W’ and select ‘P/F’</td>
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<tr>
<td>November 6</td>
<td>Monday</td>
<td>Registration begins for Spring 2024</td>
</tr>
<tr>
<td>November 11</td>
<td>Saturday</td>
<td>Holiday (Veterans’ Day)</td>
</tr>
<tr>
<td>November 21</td>
<td>Tuesday</td>
<td>Thanksgiving recess begins after last class</td>
</tr>
<tr>
<td>November 27</td>
<td>Monday</td>
<td>Classes resume</td>
</tr>
<tr>
<td>December 8</td>
<td>Friday</td>
<td>Last day of classes</td>
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<tr>
<td>December 9</td>
<td>Saturday</td>
<td>Reading Day</td>
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<tr>
<td>December 11</td>
<td>Monday</td>
<td>Final examinations begin</td>
</tr>
<tr>
<td>December 15</td>
<td>Friday</td>
<td>Last day of final examinations; semester ends</td>
</tr>
<tr>
<td>December 21</td>
<td>Thursday</td>
<td>Final grades due by Midnight</td>
</tr>
</tbody>
</table>

Number of class meetings: MTuWThF: 13

#### SPRING 2024

<table>
<thead>
<tr>
<th>Date</th>
<th>Day</th>
<th>Event</th>
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</thead>
<tbody>
<tr>
<td>February 1</td>
<td>Thursday</td>
<td>First day of classes</td>
</tr>
<tr>
<td>February 7</td>
<td>Wednesday</td>
<td>Last day to ADD or DROP any class with no record</td>
</tr>
<tr>
<td>February 19</td>
<td>Monday</td>
<td>Holiday (Presidents’ Day)</td>
</tr>
<tr>
<td>February 22</td>
<td>Thursday</td>
<td>MONDAY CLASS SCHEDULE will be followed</td>
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<tr>
<td>March 15</td>
<td>Friday</td>
<td>Final grades close for freshmen leaving for internship; grades submitted in May</td>
</tr>
<tr>
<td>March 17</td>
<td>Sunday</td>
<td>Spring recess begins</td>
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<tr>
<td>March 25</td>
<td>Monday</td>
<td>Classes resume</td>
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<tr>
<td>April 4</td>
<td>Thursday</td>
<td>Last day to DROP with ‘W’ and select ‘P/F’</td>
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<tr>
<td>April 8</td>
<td>Monday</td>
<td>Registration begins for Fall 2024</td>
</tr>
<tr>
<td>April 12</td>
<td>Friday</td>
<td>MONDAY CLASS SCHEDULE will be followed</td>
</tr>
<tr>
<td>April 15</td>
<td>Monday</td>
<td>Holiday (Patriots' Day)</td>
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<tr>
<td>May 10</td>
<td>Friday</td>
<td>Last day of classes</td>
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<tr>
<td>May 11</td>
<td>Saturday</td>
<td>Reading Day</td>
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<tr>
<td>May 13</td>
<td>Monday</td>
<td>Final examinations begin</td>
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<tr>
<td>May 17</td>
<td>Friday</td>
<td>Last day of final examinations; semester ends</td>
</tr>
<tr>
<td>May 17</td>
<td>Friday</td>
<td>Commencement Weekend begins</td>
</tr>
<tr>
<td>May 19</td>
<td>Sunday</td>
<td>Commencement Weekend ends</td>
</tr>
<tr>
<td>May 23</td>
<td>Thursday</td>
<td>Final grades due by Midnight; grades also submitted for internship students</td>
</tr>
</tbody>
</table>

Number of class meetings: MTuWThF: 13