LANDSCAPE ARCHITECTURE, B.S.

The bachelor of science program with a major in landscape architecture provides students with a solid foundation to pursue careers in landscape planning and conservation. It emphasizes problem-solving skills and critical thinking based on ecological principles, societal needs and cultural foundations. Landscape planning focuses on strategies to integrate human activities with landscape resources in order to achieve healthy living environments through sustainable and livable community development. Landscape conservation is concerned with achieving healthy ecosystems and in cultural and natural resource preservation.

The curriculum includes courses on theory and process and on techniques for data gathering and manipulation with an emphasis on geospatial information systems and interdisciplinary perspectives as well as on ensuring public participation in making planning and conservation decisions.

This major is of particular interest to students interested in ecological restoration and preservation and environmental planning. It prepares students for graduate work in such fields as restoration ecology, landscape architecture, urban and regional planning, architecture, law, environmental studies, and environmental design.

HOW TO GET IN

To declare this major, students must be admitted to UW–Madison and the College of Agricultural and Life Sciences (CALS). For information about becoming a CALS first-year or transfer student, see Entering the College (http://guide.wisc.edu/undergraduate/agricultural-life-sciences/#enteringthecollegetext).

Students who attend Student Orientation, Advising, and Registration (SOAR) with the College of Agricultural and Life Sciences have the option to declare this major at SOAR. Students may otherwise declare after they have begun their undergraduate studies. For more information, contact the advisor listed under the Advising and Careers tab.

REQUIREMENTS

UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (http://guide.wisc.edu/undergraduate/#requirementsforundergraduatetestudytext) section of the Guide.

COLLEGE OF AGRICULTURAL AND LIFE SCIENCES REQUIREMENTS

In addition to the University General Education Requirements, all undergraduate students in CALS must satisfy a set of college and major requirements. Specific requirements for all majors in the college and other information on academic matters can be obtained from the Office of Academic Affairs (http://www.cals.wisc.edu/academics), College of Agricultural and Life Sciences, 116 Agricultural Hall, 1450 Linden Drive, Madison, WI 53706; 608-262-3003. Academic departments and advisors also have information on requirements. Courses may not double count within university requirements (General Education and Breadth) or within college requirements (First-Year Seminar, International Studies and Science), but courses counted toward university requirements may also be used to satisfy a college and/or a major requirement; similarly, courses counted toward college requirements may also be used to satisfy a university and/or a major requirement.

COLLEGE REQUIREMENTS FOR ALL CALS B.S. DEGREE PROGRAMS

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>First Year Seminar (<a href="http://guide.wisc.edu/undergraduate/agricultural-life-sciences/#requirementstext">http://guide.wisc.edu/undergraduate/agricultural-life-sciences/#requirementstext</a>)</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>International Studies (<a href="http://guide.wisc.edu/undergraduate/agricultural-life-sciences/#requirementstext">http://guide.wisc.edu/undergraduate/agricultural-life-sciences/#requirementstext</a>)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Physical Science Fundamentals</td>
<td>4-5</td>
<td></td>
</tr>
<tr>
<td>CHEM 103, or CHEM 108, or CHEM 109</td>
<td>General Chemistry I, Chemistry in Our World, Advanced General Chemistry</td>
<td>5</td>
</tr>
<tr>
<td>Biological Science</td>
<td>5</td>
<td></td>
</tr>
<tr>
<td>Additional Science (Biological, Physical, or Natural)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Science Breadth (Biological, Physical, Natural, or Social)</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>
CALS Capstone Learning Experience: included in the requirements for each CALS major (see "Major Requirements") (http://guide.wisc.edu/undergraduate/agricultural-life-sciences/#requirementstext)

MAJOR REQUIREMENTS

Courses may not double count within the major (unless specifically noted otherwise), but courses counted toward the major requirements may also be used to satisfy a university requirement and/or a college requirement. A minimum of 15 credits must be completed in the major that are not used elsewhere.

ENVIR ST/GEOG 127 Physical Systems of the Environment is recommended to fulfill the CALS International Studies requirement.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Mathematics and Statistics</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select one of the following (or may be satisfied by placement exam):</td>
<td>5-6</td>
</tr>
<tr>
<td></td>
<td>MATH 112 Algebra</td>
<td></td>
</tr>
<tr>
<td></td>
<td>MATH 113 and Trigonometry</td>
<td></td>
</tr>
<tr>
<td></td>
<td>MATH 114 Algebra and Trigonometry</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select one of the following:</td>
<td>3-5</td>
</tr>
<tr>
<td></td>
<td>MATH 211 Calculus</td>
<td></td>
</tr>
<tr>
<td></td>
<td>MATH 221 Calculus and Analytic Geometry 1</td>
<td></td>
</tr>
<tr>
<td></td>
<td>STAT 301 Introduction to Statistical Methods</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Biology</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select one of the following:</td>
<td>5-6</td>
</tr>
<tr>
<td></td>
<td>Option 1:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>BOTANY/BIOLOGY 130</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Option 2:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>BOTANY 100 Survey of Botany</td>
<td></td>
</tr>
<tr>
<td></td>
<td>And select one of the following:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>BOTANY/F&amp;W ECOL 402 Dendrology</td>
<td></td>
</tr>
<tr>
<td></td>
<td>HORT 227 Propagation of Horticultural Plants</td>
<td></td>
</tr>
<tr>
<td></td>
<td>or another 2 credits of lab or field-based botany, horticulture, agronomy, or landscape architecture</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select one of the following:</td>
<td>3-4</td>
</tr>
<tr>
<td></td>
<td>BOTANY/ENVIR ST/ZOOLOGY 260 Introductory Ecology</td>
<td></td>
</tr>
<tr>
<td></td>
<td>BOTANY/F&amp;W ECOL 455 The Vegetation of Wisconsin</td>
<td></td>
</tr>
<tr>
<td></td>
<td>BOTANY/F&amp;W ECOL/ZOOLOGY 460 General Ecology</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Core</td>
<td></td>
</tr>
<tr>
<td></td>
<td>SOIL SCI 301 General Soil Science</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>or SOIL SCI/ENVIR ST/GEOG 230 Soil: Ecosystem and Resource</td>
<td></td>
</tr>
<tr>
<td></td>
<td>LAND ARC 250 Survey of Landscape Architecture Design</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>LAND ARC 201</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>LAND ARC 262 History of Landscape Architecture</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>LAND ARC 260 History of Landscape Architecture</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>ENVIR ST/SOIL SCI 695 Applications of Geographic Information Systems in Natural Resources</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>or URB R PL/LAND ARC 622 Applications of Geographic Information Systems in Planning</td>
<td></td>
</tr>
<tr>
<td></td>
<td>HISTORY/ENVIR ST/GEOG 460 American Environmental History</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>or ART HIST 457 History of American Vernacular Architecture and Landscapes</td>
<td></td>
</tr>
<tr>
<td></td>
<td>URB R PL/LAND ARC 463 Evolution of American Planning</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>URB R PL 601 Site Planning</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>LAND ARC 375 Special Topics (minimum total of 3 cr.)</td>
<td>3</td>
</tr>
</tbody>
</table>

Specialization

Select one of the following: 18-22

- Specialization 1: Cultural and Historic Landscapes
- Specialization 2: Environmental Planning
- Specialization 3: Ecological Restoration

Capstone

Select one of the following:

- LAND ARC 691 Senior Thesis
- LAND ARC 692 Senior Thesis
- LAND ARC 699 Special Problems-Landscape Architecture

Total Credits: 66-75

Note: Restoration students are encouraged to select BOTANY/BIOLOGY 130 General Botany, BOTANY/ENVIR ST/ZOOLOGY 260 Introductory Ecology or BOTANY/F&W ECOL/ZOOLOGY 460 General Ecology, and STAT 301 Introduction to Statistical Methods or equivalent under college and university requirements.

SPECIALIZATIONS WITHIN THE MAJOR

SPECIALIZATION 1: CULTURAL AND HISTORIC LANDSCAPES

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>LAND ARC 677</td>
<td>Cultural Resource Preservation and Landscape History</td>
<td>3</td>
</tr>
</tbody>
</table>

Select one of the following:

- FOLKLORE 320 Folklore of Wisconsin | 3
- FOLKLORE 439 Foodways |         |
- FOLKLORE/L I S 490 Field Methods and the Public Presentation of Folklore |         |
- FOLKLORE/ANTHRO/MUSIC/THEATRE 539 The Folklore of Festivals and Celebrations |         |
- FOLKLORE 540 Local Culture and Identity in the Upper Midwest |         |

Select one of the following: 3-4

- HISTORY 201 The Historian's Craft |         |
- or HISTORY 403 Immigration and Assimilation in American History |         |

Select one of the following: 3-4
ANTHRO/AMER IND 353  Indians of the Western Great Lakes
ANTHRO/AMER IND 354  Archaeology of Wisconsin
ANTHRO/AMER IND 431  American Indian Folklore
AMER IND 250  Indians of Wisconsin
AMER IND/LSC 444  Native American Environmental Issues and the Media
ANTHRO/AMER IND/BOTANY 474  Ethnobotany
AMER IND/C&E SOC/SOC 578  Poverty and Place

Select one of the following:  3

ART HIST/ANTHRO/DS/HISTORY/LAND ARC 264  Dimensions of Material Culture
ART HIST 449  Topics in Architectural History
ART HIST 457  History of American Vernacular Architecture and Landscapes
ART HIST/DS/HISTORY 464  Dimensions of Material Culture

Select one of the following:  3-4

GEOG 301  Geography of Social Organization
GEOG/URB R PL 305  Introduction to the City
GEOG/ENVIR ST 309  People, Land and Food: Comparative Study of Agriculture Systems
GEOG 342  Geography of Wisconsin
GEOG/C&E SOC/ENVIR ST 434  People, Wildlife and Landscapes
GEOG 501  Space and Place: A Geography of Experience
URB R PL 711  Planning for Food Systems and Marketplaces

Total Credits  18-21

SPECIALIZATION 2: ENVIRONMENTAL PLANNING

Code  Title  Credits
ECON 101  Principles of Microeconomics  4
SOC/C&E SOC 210  Survey of Sociology  3-4
or SOC/C&E SOC 211  The Sociological Enterprise
GEOG/URB R PL 305  Introduction to the City  3-4
or URB R PL 590  Contemporary Topics in Urban and Regional Planning
C&E SOC/URB R PL 617  Community Development  3

Select one of the following:  3-4

URB R PL/ENVIR ST 668  Green Politics: Global Experience, American Prospects
F&W ECOL/ENVIR ST 515  Natural Resources Policy
ECON/URB R PL 449  Government and Natural Resources

Select one of the following:  3-4

REAL EST/URB R PL 306  The Real Estate Process
REAL EST/URB R PL 420  Urban and Regional Economics
A A E/ECON/ENVIR ST 343  Environmental Economics

Total Credits  19-23

SPECIALIZATION 3: ECOLOGICAL RESTORATION

Code  Title  Credits
BOTANY 400  Plant Systematics  4
or BOTANY 401  Vascular Flora of Wisconsin
BOTANY/F&W ECOL 455  The Vegetation of Wisconsin  4
LAND ARC 353  Landscape Architectural Technology I
LAND ARC 666  Restoration Ecology  3

Select one of the following:  3-4

ENVIR ST/BOTANY/F&W ECOL/ZOOLOGY 651  Conservation Biology
ENVIR ST/F&W ECOL/ZOOLOGY 360  Extinction of Species

Select one of the following:  2-3

AGRONOMY/BOTANY/SOIL SCI 370  Grassland Ecology
LAND ARC/ENVIR ST 361  Wetlands Ecology
SOIL SCI/PL PATH 323  Soil Biology
ZOOLOGY/ENVIR ST 315  Limnology-Conservation of Aquatic Resources
LAND ARC 399  Coordinative Internship/Cooperative Education  1-8

Total Credits  20-29

UNIVERSITY DEGREE REQUIREMENTS

Requirements Detail

Total Degree  To receive a bachelor’s degree from UW–Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.
Residency
Degree candidates are required to earn a minimum of 30 credits in residence at UW–Madison. “In residence” means on the UW–Madison campus with an undergraduate degree classification. “In residence” credit also includes UW–Madison courses offered in distance or online formats and credits earned in UW–Madison Study Abroad/Study Away programs.

Quality of Work
Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

LEARNING OUTCOMES

1. Integrate social, cultural, ecological and technological dimensions in solving novel problems concerning the conservation or management of sustainable natural and cultural landscapes.

2. Demonstrate critical thinking and the ability to explore ideas and synthesize information, both independently and in collaboration with interdisciplinary team members.

3. Demonstrate competence and critical judgment in applying the intellectual and technical skills necessary for site and landscape-scale natural and cultural resource conservation planning and management; in particular the skills of: site inventory and analysis, spatial and temporal analysis; geographic information systems; programming; synthesis; communication; implementation; and evaluation.

4. Understand, apply and evaluate the principles, theories and recent research findings underlying at least one of the following fields of landscape studies, in particular cultural and historic landscapes, environmental planning, and ecological restoration.

5. Demonstrate advanced communication skills, including visual, verbal, and written presentation skills.

6. Be able to perform as a member of a public or private natural or cultural resources conservation or preservation office or agency.

FOUR-YEAR PLAN

FOUR-YEAR PLAN
SAMPLE LANDSCAPE ARCHITECTURE FOUR-YEAR PLAN—BACHELOR OF SCIENCE DEGREE

Freshman
Fall Credits Spring Credits
LAND ARC 201 1 4
LAND ARC 250 1 3 MATH 113 3
CHEM 108 5 BOTANY/BIOLOGY 130 5
MATH 112 3 COMM A Course 3
First Year Seminar 1 Electives 3 3
14 18

Total Credits 32

Sophomore
Fall
Credits Spring
Credits
Biological Science Course
SOIL SCI 301 4 BOTANY/ENVIR ST/ ZOOLOGY 260, 455, or 460 3-4
Electives 6 Math / Statistics Course 3
Electives 6
15 15-16

Total Credits 30-31

Junior
Fall
Credits Spring
Credits
Landscape Architecture Core Elective Courses
SOIL SCI 695 3
Specialization Courses 6 ENVIR ST/GEOG 127 5
Elective Course 3 Specialization Course 3
Elective Course 4
15 15

Total Credits 30

Senior
Fall
Credits Spring
Credits
LAND ARC 691 (Capstone) 4 Specialization Course 3
Specialization Courses 6 Elective Courses 12
Elective Courses 6
16 15

Total Credits 31

1 Must be taken during semester shown to stay on track.
2 Electives must be chosen to include completion of UW and CALS requirements. See Requirements tab for details.

ADVISING AND CAREERS

Students are assigned to a faculty advisor once they declare the major. Prospective students should contact the academic coordinator, Debi Griffin (dagriffin@wisc.edu, 608-263-7301) for more information.

This major is of particular interest to students interested in ecological restoration and preservation and environmental planning. It prepares students for graduate work in such fields as restoration ecology, landscape architecture, urban and regional planning, architecture, law, environmental studies, and environmental design.

PEOPLE

PROFESSORS
Harrington, Howell, Silbernagel

ASSOCIATE PROFESSORS
Bart, Dennis (chair), Gilmore
ASSISTANT PROFESSOR
Thorleifsdottir

FACULTY ASSOCIATES
Flohr, Kelly

SENIOR LECTURERS
Hadley, Steiner