

Program Proposal for a Minor

1. Name of the proposed minor.

Minor in Landscape Management

2. Name of the department(s) involved.

Department of Horticulture

3. Name of contact person(s).

Ann Marie VanDerZanden, Department of Horticulture, 294-5075,
vanderza@iastate.edu

Jeff Iles, Chair, Department of Horticulture, 294-3718, iles@iastate.edu

4. General description of the minor.

The proposed Landscape Management minor is a 15-credit program that draws on existing courses currently offered in the Department of Horticulture. The Landscape Management minor provides a systematic framework for the academic study of the multiple components of landscape management for non-horticulture majors. The minor combines courses in basic plant growth and development, plant selection, landscape installation and establishment, and landscape construction. It brings together existing course offerings in the broad field of landscape management and will provide more visibility and focus for this area within the horticulture curriculum. The existing Minor in Horticulture is a broad-based minor that does not include focus within a specific area of horticulture.

The proposed minor will be comprised of the following courses:

Required

HORT 221: Principles of Horticulture (3 cr)

Optional

HORT 240: Trees, Shrubs, and Woody Vines for Landscaping (3 cr)

HORT 281: Landscape Graphics (2 cr)

HORT 330: Herbaceous Ornamental Plants (3 cr)

HORT 341: Woody Plant Cultivars: Shade Trees, Ornamental Trees, and Woody Shrubs (2 cr)

HORT 342: Landscape Plant Installation, Establishment, and Maintenance (3 cr)

HORT 351: Turfgrass Management (3 cr)

HORT 444: Landscape Construction and Management (3 cr)

As outlined in the proposal, no additional resources are needed to establish and administer the minor. Further, no new courses are necessary to implement the proposed minor. We anticipate the minor will increase student credit hours within the Department

of Horticulture by attracting students outside of the horticulture major to a curriculum with a focus on landscape management. In consultations with faculty in Landscape Architecture during the 2011-12 academic year, they support the establishment of such a minor and report that a number of students within their program would be interested in pursuing this specialized minor. The minor will also be of interest to students in other curricula such as Natural Resources Ecology and Management (NREM), Agriculture Studies, Agronomy and Business.

The proposed minor in Landscape Management responds to the University's strategic planning and budget discussions by identifying new revenue streams that can be established with existing courses.

5. Need for the proposed minor.

The Landscape Management minor provides a systematic framework for the academic study of the multiple components of landscape management. It brings together existing course offerings in the broad field of landscape management and will provide more visibility and focus for this area within the horticulture curriculum. The minor will also provide students majoring in related curricula to complete course work in an area that will complement their major. This additional coursework will increase their marketability once they graduate. The Landscape Management minor will also allow students majoring in business to develop expertise in a professional area where they can then apply their business skills. For example this minor would be valuable for students completing the existing minor in Entrepreneurial Studies.

6. Objectives of the proposed minor including the student learning outcomes and how the learning outcomes will be assessed.

The Landscape Management minor offers an integrated and multi-faceted approach to the academic study of landscape management by providing coursework in basic plant growth and development, plant selection, landscape installation and establishment, and landscape construction. A comprehensive understanding of all of these areas is essential to successfully managing a landscape. Upon completion of the Landscape Management minor students will be able to demonstrate skills in landscape construction and management techniques, and be able to apply both theoretical and tangible concepts to landscape management scenarios. Completion of this minor will prepare students for a broad range of horticultural related fields such as residential and commercial landscape management, horticultural consultant, and municipal horticulturist.

Assessment of learning outcomes will be based on students' performance on exams, written and oral communication assignments, course projects, and other carefully designed assessment tools designed by faculty teaching the courses. An indirect measure of assessing the minor will be via questions added to the existing exit survey of graduating seniors that is conducted by the Department Chair at the completion of each semester.

7. Relationship of the minor to other programs at Iowa State University.

There is no existing minor that is similar to the proposed minor in Landscape Management. The major in Horticulture does offer an option in Landscape Design, Installation and Management, but that curriculum is much broader than just landscape management. Students who complete this option take all of the course management courses which are outlined in the proposed minor. The minor is designed to meet a need for students who are not majoring in horticulture but are studying in related disciplines such as landscape architecture, urban forestry, agronomy, and agricultural studies.

8. Relationship of the minor to the strategic plans of the university of the college, and of the department or program.

The proposed minor is clearly in line with the University's strategic plan's priority to "Provide accessible residential and distance educational programs that build on Iowa State's strengths and excellence in science and technology integrated with design, business, education, arts, humanities, and social sciences." The proposed minor builds on existing excellence and combines horticultural science with design and business. On the college level the minor will help "create an environment that welcomes students to explore the variety of disciplines and career paths available in the College". At the departmental level the proposed minor furthers the Department of Horticulture's mission to "...create and maintain research, teaching, and extension programs and to promote enthusiasm and excitement, for the science, production, and creative utilization of plants for the betterment of Iowans and all humankind". Specifically the minor will help the Department of Horticulture "educate citizens in ways that: Provide a firm foundation in the science, skills, and arts fundamental to a proficiency in horticulture through undergraduate and graduate degree programs, improve the quality of human life, enhance the quality of the environment".

9. Comparison of the proposed minor with similar programs at other universities, including the Regent's universities.

Many universities that have a major in landscape management or turf and landscape management also offer a minor in this area. Since we offer a major in horticulture at ISU and not in landscape management, creating a minor specifically in landscape management will be a valuable recruitment tool. Universities that currently offer a minor in landscape management or turf and landscape management include: University of Maryland, Brigham Young University, Oregon State University, and University of Nebraska-Lincoln. Neither the University of Iowa, nor the University of Northern Iowa offers a minor in landscape management.

10. Program requirements including:

a. prerequisites for prospective students;

There are no prerequisites for students wishing to earn the Landscape Management minor. Students majoring in any discipline are able to earn this minor.

b. application and selection process;

There is no application or selection process for students to enroll in the proposed minor.

c. language requirements;

There is no language requirement for the Landscape Management minor.

d. courses and seminars presently available for credit toward the program;

HORT 221: Principles of Horticulture (3 cr)

HORT 240: Trees, Shrubs, and Woody Vines for Landscaping (3 cr)

HORT 281: Landscape Graphics (2 cr)

HORT 330: Herbaceous Ornamental Plants (3 cr)

HORT 341: Woody Plant Cultivars: Shade Trees, Ornamental Trees, and Woody Shrubs (2 cr)

HORT 342: Landscape Plant Installation, Establishment, and Maintenance (3 cr)

HORT 351: Turfgrass Management (3 cr)

HORT 444: Landscape Construction and Management (3 cr)

e. proposed new courses or modifications of existing courses;

No new courses are required for this proposed minor and no changes are needed in any of the existing courses approved for the minor.

f. advising of students;

Students will be advised by current horticulture faculty involved in the proposed minor.

g. implications for related areas within the university.

Since the courses required and approved for this minor are currently offered by the Department of Horticulture there are no implications involving teaching load or allocation of resources for any units outside of the department.

11. General description of the resources currently available and future resource needs, in terms of:

a. faculty members;

Current faculty members who are teaching the courses outlined in the minor include:

Cynthia Haynes and Rajeev Arora- HORT 221: Principles of Horticulture

William Graves- HORT 240: Trees, Shrubs, and Woody Vines for Landscaping
Lisa Orgler- HORT 281: Landscape Graphics
Cynthia Haynes- HORT 330: Herbaceous Ornamental Plants
Jeff Iles- HORT 341: Woody Plant Cultivars: Shade Trees, Ornamental Trees,
and Woody Shrubs
Jeff Iles- HORT 342: Landscape Plant Establishment and Maintenance
Nick Christians- HORT 351: Turfgrass Management
Lisa Orgler- HORT 444: Landscape Construction and Management

It is anticipated these faculty members will continue to teach these assigned courses.

b. computers, laboratories, and other facilities;

The Department of Horticulture has a 25-seat computer lab in Horticulture Hall which is restricted to use by Horticulture Majors or students currently enrolled in horticulture courses. In addition, Horticulture Hall has a brand new, state of the art greenhouse complex, three laboratory spaces used regularly by students enrolled in the courses in the proposed minor, and students will have extensive access to the ISU Horticulture Research Station located six miles north of campus for hands-on laboratory exercises.

c. library facilities (journals, documents, etc.) in the proposed area;

The existing library facilities meet the needs of students enrolled in courses for the minor.

d. supplies, field work, student recruitment, etc.

The Department of Horticulture has a fully outfitted landscape trailer that includes the tools necessary to complete landscape installation projects and landscape maintenance. These resources are made available to students in the related courses. All three of the plant identification courses (HORT 240, 330, and 341) make extensive use of the ISU campus as well as Reiman Gardens. Our faculty have a great working relationship with ISU's Facilities Planning and Management and Reiman Gardens.

12. Describe the needs for new resources and/or reallocated resources. Attach to the program proposal memos from the department chair(s), the college dean(s), and other appropriate persons, agreeing to the allocation of new resources and/or the reallocation of resources.

No new resources or reallocation of resources are required.

13. Attach to the program proposal, letters of support, recommendations, and statements when appropriate, from programs and departments at ISU which are associated with the proposed program or have an interest in the proposed program.

Drs. Iles and VanDerZanden consulted with faculty (Johnston, Hohmann, Stevens) in the Landscape Architecture department in the development of this

proposal. Johnston as chair of the program gave us verbal support of this proposal.

Letters of support for this minor are included in Appendix A from the Department of Natural Resource Ecology and Management and the Department of Agricultural Education and Studies.

14. If the new program is interdisciplinary, a governance document should be created and submitted to the Associate Provost for Academic Programs. Indicate here that it has been completed.

The proposed minor in Landscape Management is not an interdisciplinary program and does not require a new governance document.

Appendix A:

**Letters of support for proposed Minor in Landscape Management from the
Department of Horticulture**

IOWA STATE UNIVERSITY

OF SCIENCE AND TECHNOLOGY

College of Agriculture and Life Sciences

Department of Entomology

Department of Natural Resource Ecology and
Management

339 Science II

Ames, Iowa 50011-3221

515 294-1458

5 September 2012

Dr. Jeff Iles, Chair
Department of Horticulture
Iowa State University
Ames, IA

Dear Jeff,

I understand that the Department of Horticulture Undergraduate Programs Committee proposes a new minor in Landscape Management. The minor may be of interest to some of the Natural Resource Ecology and Management (NREM) students particularly in the area of urban forestry. Your minor combines courses in basic growth development of wood plant cultivars and their installation and establishment, topics that are important in urban forestry. Students in NREM's Interpretation option may also find value in such a minor. Currently many NREM students enroll in various Horticulture courses; this minor offers a way for students to add value to their undergraduate degree.

Current enrollment in NREM is approximately 450 students with 100 of those seeking a degree in forestry. The minor that you propose in Landscape Management would complement NREM's major in forestry and several options that are offered. In addition there may be interest from students pursuing the Animal Ecology major, as wildlife habitat and landscape management complements these areas.

I support the Landscape Management minor that you propose. I believe there are NREM students who would find it a valuable addition to their academic experience.

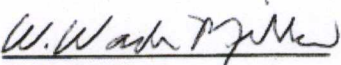
Sincerely,



Sue Blodgett, Chair

IOWA STATE UNIVERSITY
OF SCIENCE AND TECHNOLOGY

Department of Agricultural Education and Studies
201 Curtiss Hall
Ames, Iowa 50011-1050
Administration and Graduate Programs 515 294-5872
Undergraduate Programs 515 294-6924
Extension Programs 515 294-4076
FAX 515 294-0530

Date: September 4, 2012
To: Curriculum Committee
From: 
W. Wade Miller
Professor and Interim Chair
Re: Proposed Minor in Landscape Management

I have read the proposal for a Minor in Landscape Management from the Department of Horticulture. I support this proposal. I believe that it will serve a purpose for a number of students including undergraduates majoring in Agriculture and Life Sciences Education (AGLSE) and Agricultural Studies (AGST). This minor would provide a focus for students studying landscaping. Students in AGLSE would find it useful in preparing to teach ornamental horticulture at the secondary school level. Most high school agriculture programs include one or more classes in landscape horticulture and this minor would provide a way for students to better prepare themselves to teach these types of courses.

Students in AGST would find it useful in preparing for a diversified agricultural career. Many students have an interest in agriculture and natural resources beyond production agriculture.

The proposal is distinctively different from the minor in Horticulture. For both majors in the Department of Agricultural Education and Studies, this minor would provide visibility for students who study the area of landscape management. I believe it would enhance the ability of graduates in finding a rewarding career.

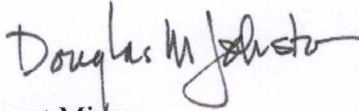
IOWA STATE UNIVERSITY
OF SCIENCE AND TECHNOLOGY

Department of Landscape Architecture
College of Design
Ames, Iowa 50011-3094
515 294-5676
FAX 515 294-2348
e-mail: landarch@iastate.edu

10 October 2012

TO: Jeff Isles, Chair
Department of Horticulture

FROM: Doug Johnston, Interim Chair



SUBJECT: Proposed Landscape Management Minor

The faculty of the Department of Landscape Architecture has reviewed and supports the proposed Minor in Landscape Management. As a department that focuses on broad aspects of design and planning of landscapes, we believe a number of our students who have interests in implementation and maintenance will find value in this minor. While the department has a graduate specialization in Landscape Management, its focus is in large scale landscapes, ecological preservation and restoration, and related areas. Therefore we do not believe there is redundancy in the offerings.