

LANDSCAPE CONTRACTING, B.S.

Begin Campus: Any Penn State Campus

End Campus: University Park

Program Description

Landscape contracting involves constructing, establishing, and maintaining landscapes from small residential projects to large commercial and industrial projects, as well as producing plans for small-scale residential and commercial sites. Students develop skills in construction, site design, plant material usage, plant establishment, and landscape maintenance. Students are also educated in areas such as graphics, surveying, soils, turfgrass management, weed and pest management, and in business operations.

Students are encouraged to obtain on-the-job experience in landscape contracting by working with a landscape maintenance or construction firm, or other related business. Credits for this experience are available for those who choose to enroll in an internship.

A wide variety of opportunities exist for landscape contracting graduates. They may be employed by design/build firms, landscape management firms, nurseries, or garden centers. Others may choose to work for municipalities, golf courses, parks, or botanical gardens.

Design/Build Option

This option focuses on the development of skills in the planning and implementation of landscape projects. Employment opportunities exist with landscape contracting companies, irrigation companies, and retail centers.

Management Option

This option provides professional education in the management of landscapes. Employment opportunities include positions with landscape management companies and golf courses.

What is Landscape Contracting?

Landscape contracting is a highly specialized profession that involves the design, construction, and management of outdoor environments. The industry is dependent upon educated and well-trained individuals who are capable of creating sustainable design solutions that meet or exceed client expectations. Penn State is at the forefront of preparing students to be leaders in this exciting industry.

You Might Like this Program If...

- You are interested in owning your own company or working for small to large landscape firms as a project manager or account manager on residential and commercial projects
- You enjoy learning in both classroom and outdoor settings
- You are interested in a program that offers design studios and computer classrooms with up-to-date software applications for creating 2-D and 3-D landscape plans
- You like to be outside and want to work with your hands

MORE INFORMATION ABOUT WHY STUDENTS CHOOSE TO STUDY LANDSCAPE CONTRACTING (<http://plantscience.psu.edu/majors/landscape/why/>)

Entrance to Major

In order to be eligible for entrance to this major, a student must:

1. attain at least a C (2.00) cumulative grade-point average for all courses taken at the University; and
2. have third-semester classification (<http://www.registrar.psu.edu/enrollment/semester-classification.cfm>).

READ SENATE POLICY 37-30: ENTRANCE TO AND CHANGES IN MAJOR PROGRAMS OF STUDY (<http://senate.psu.edu/policies-and-rules-for-undergraduate-students/37-00-entrance-to-a-college-or-major/>)

Degree Requirements

For the Bachelor of Science degree in Landscape Contracting, a minimum of 120 credits is required:

| Requirement | Credits |
|----------------------------|---------|
| General Education | 45 |
| Electives | 2-16 |
| Requirements for the Major | 80-97 |

21-24 of the 45 credits for General Education are included in the Requirements for the Major. This includes: 3 credits of GWS courses; 3-6 credits of GA courses; 3 credits of GQ courses; 9 credits of GN courses; 3 credits of GS courses.

General Education

Connecting career and curiosity, the General Education curriculum provides the opportunity for students to acquire transferable skills necessary to be successful in the future and to thrive while living in interconnected contexts. General Education aids students in developing intellectual curiosity, a strengthened ability to think, and a deeper sense of aesthetic appreciation. These are requirements for all baccalaureate students and are often partially incorporated into the requirements of a program. For additional information, see the General Education Requirements (<http://bulletins.psu.edu/undergraduate/general-education/baccalaureate-degree-general-education-program/>) section of the Bulletin and consult your academic adviser.

The keystone symbol appears next to the title of any course that is designated as a General Education course. Program requirements may also satisfy General Education requirements and vary for each program.

Foundations (grade of C or better is required.)

- **Quantification (GQ):** 6 credits
- **Writing and Speaking (GWS):** 9 credits

Knowledge Domains

- **Arts (GA):** 6 credits
- **Health and Wellness (GHW):** 3 credits
- **Humanities (GH):** 6 credits
- **Social and Behavioral Sciences (GS):** 6 credits
- **Natural Sciences (GN):** 9 credits

Integrative Studies (may also complete a Knowledge Domain requirement)

- **Inter-Domain or Approved Linked Courses:** 6 credits

University Degree Requirements

First Year Engagement

All students enrolled in a college or the Division of Undergraduate Studies at University Park, and the World Campus are required to take 1 to 3 credits of the First-Year Seminar, as specified by their college First-Year Engagement Plan.

Other Penn State colleges and campuses may require the First-Year Seminar; colleges and campuses that do not require a First-Year Seminar provide students with a first-year engagement experience.

First-year baccalaureate students entering Penn State should consult their academic adviser for these requirements.

Cultures Requirement

6 credits are required and may satisfy other requirements

- United States Cultures: 3 credits
- International Cultures: 3 credits

Writing Across the Curriculum

3 credits required from the college of graduation and likely prescribed as part of major requirements.

Total Minimum Credits

A minimum of 120 degree credits must be earned for a baccalaureate degree. The requirements for some programs may exceed 120 credits. Students should consult with their college or department adviser for information on specific credit requirements.

Quality of Work

Candidates must complete the degree requirements for their major and earn at least a 2.00 grade-point average for all courses completed within their degree program.

Limitations on Source and Time for Credit Acquisition

The college dean or campus chancellor and program faculty may require up to 24 credits of course work in the major to be taken at the location or in the college or program where the degree is earned. Credit used toward degree programs may need to be earned from a particular source or within time constraints (see Senate Policy 83-80 (<http://senate.psu.edu/policies-and-rules-for-undergraduate-students/82-00-and-83-00-degree-requirements/#83-80>)). For more information, check the Suggested Academic Plan for your intended program.

Requirements for the Major

To graduate, a student enrolled in the major must earn a grade of C or better in each course designated by the major as a C-required course, as specified by Senate Policy 82-44 (<http://senate.psu.edu/policies-and-rules-for-undergraduate-students/82-00-and-83-00-degree-requirements/#82-44>).

Common Requirements for the Major (All Options)

| Code | Title | Credits |
|---------------------------|---|---------|
| Prescribed Courses | | |
| ACCTG 211 | Financial and Managerial Accounting for Decision Making | 4 |
| CHEM 101 | Introductory Chemistry | 3 |
| ENGL 202D | Effective Writing: Business Writing | 3 |

| | | |
|---|---|-----|
| HORT 410W | Issues in Landscape Contracting | 3 |
| LARCH 60 | Cultural History of Designed Places | 3 |
| MATH 26 | Plane Trigonometry | 3 |
| PLANT 217 | Landscape Soil and Water Management | 3 |
| SOILS 101 | Introductory Soil Science | 3 |
| <i>Prescribed Courses: Require a grade of C or better</i> | | |
| HORT 101 | Horticultural Science | 3 |
| HORT 120 | Computer Applications for Landscape Contracting | 2 |
| HORT 131 | Herbaceous Perennial and Annual Identification | 3 |
| HORT 137 | Ornamental Plant Materials | 3 |
| HORT 138 | Ornamental Plant Materials | 3 |
| HORT 408 | Landscape Plant Establishment and Maintenance | 4 |
| HORT 468 | Landscape Estimating and Bidding | 2 |
| Additional Courses | | |
| BIOL 110 or BIOL 127 | Biology: Basic Concepts and Biodiversity Introduction to Plant Biology | 3-4 |
| MKTG 220 or BA 303 | Introduction to Selling Techniques Marketing | 3 |
| TURF 100 or TURF 235 | Introduction to Turfgrass Management The Turfgrass | 3 |
| Select one of the following: | | 3 |
| AGBM 101 | Economic Principles of Agribusiness Decision Making | |
| ECON 14 | Principles of Economics | |
| ECON 102 | Introductory Microeconomic Analysis and Policy | |
| ECON 104 | Introductory Macroeconomic Analysis and Policy | |
| Select one of the following: | | 3 |
| BA 250 | Small Business Management | |
| BA 304 | Management and Organization | |
| HORT 455 | Retail Horticulture Business Management | |
| Select one of the following: | | 3-4 |
| BA 241 & BA 242 | Legal Environment of Business and Social and Ethical Environment of Business | |
| BA 243 | Social, Legal, and Ethical Environment of Business | |
| BLAW 243 | Legal Environment of Business | |
| Select one of the following: | | 3-5 |
| MATH 26 | Plane Trigonometry | |
| MATH 40 | Algebra, Trigonometry, and Analytic Geometry | |
| MATH 41 | Trigonometry and Analytic Geometry | |
| MATH 140 | Calculus With Analytic Geometry I | |
| Select one of the following: | | 4 |
| SPAN 1 | Elementary Spanish I | |
| SPAN 2 | Elementary Spanish II | |
| SPAN 105 | Elementary Spanish I for Students in the Agricultural Sciences | |

Requirements for the Option

Select an option 14-26

Requirements for the Option

Design/Build Option (25-26 credits)

| Code | Title | Credits |
|---------------------------|-------------------------|---------|
| Prescribed Courses | | |
| ART 20 | Introduction to Drawing | 3 |

| | | |
|---|---|-----|
| EDSGN 10 | | 1 |
| <i>Prescribed Courses: Require a grade of C or better</i> | | |
| HORT 220 | CAD Applications in Landscape Contracting | 3 |
| HORT 269 | Residential Landscape Planning | 3 |
| HORT 368 | Landscape Planting Design | 4 |
| HORT 464 | Landscape Construction I | 4 |
| HORT 466 | Landscape Construction II | 5 |
| Additional Courses | | |
| Select 2-3 credits from the following: | | 2-3 |
| ENT 313 | Introduction to Entomology | |
| ENT 314 | Management of Insect Pests of Ornamentals | |
| HORT 238 | Turf and Ornamental Weed Control | |
| PPEM 300 | Horticultural Crop Diseases | |
| PPEM 318 | Diseases of Forest and Shade Trees | |

Management Option (14-15 credits)

| Code | Title | Credits |
|---|---|---------|
| Prescribed Courses | | |
| ENT 313 | Introduction to Entomology | 2 |
| ENT 314 | Management of Insect Pests of Ornamentals | 1 |
| SOILS 401 | Soil Composition and Physical Properties | 3 |
| <i>Prescribed Courses: Require a grade of C or better</i> | | |
| HORT 238 | Turf and Ornamental Weed Control | 3 |
| HORT 250 | Landscape Contracting Design/Build Principles | 3 |
| Additional Courses | | |
| PPEM 300 | Horticultural Crop Diseases | 2-3 |
| or PPEM 318 | Diseases of Forest and Shade Trees | |

Program Learning Objectives

1. Students will use quantitative, artistic, and environmental knowledge to create workable site solutions. Students will work individually, collaboratively, and cooperatively.
2. Students will communicate complex design concepts to clients and industry professionals using 2-D and 3-D computer generated documents.
3. Students will develop landscape management plans that reflect their knowledge of plants and their cultural requirements, biology, and the surrounding environment.
4. Students will employ business management skills to analyze landscape project inputs and to develop comprehensive pricing proposals.

Academic Advising

The objectives of the university's academic advising program are to help advisees identify and achieve their academic goals, to promote their intellectual discovery, and to encourage students to take advantage of both in-and out-of class educational opportunities in order that they become self-directed learners and decision makers.

Both advisers and advisees share responsibility for making the advising relationship succeed. By encouraging their advisees to become engaged in their education, to meet their educational goals, and to develop the habit of learning, advisers assume a significant educational role. The advisee's unit of enrollment will provide each advisee with a primary academic adviser, the information needed to plan the chosen program of study, and referrals to other specialized resources.

READ SENATE POLICY 32-00: ADVISING POLICY (<http://senate.psu.edu/policies-and-rules-for-undergraduate-students/32-00-advising-policy/>)

University Park

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Suggested Academic Plan

The suggested academic plan(s) listed on this page are the plan(s) that are in effect during the 2020-21 academic year. To access previous years' suggested academic plans, please visit the archive (<https://bulletins.psu.edu/undergraduate/archive/>) to view the appropriate Undergraduate Bulletin edition (*Note: the archive only contain suggested academic plans beginning with the 2018-19 edition of the Undergraduate Bulletin*).

Design/Build Option, University Park Campus

The course series listed below provides **only one** of the many possible ways to move through this curriculum. The University may make changes in policies, procedures, educational offerings, and requirements at any time. This plan should be used in conjunction with your degree audit (accessible in LionPATH as either an **Academic Requirements** or **What If** report). Please consult with a Penn State academic adviser on a regular basis to develop and refine an academic plan that is appropriate for you.

First Year

| Fall | Credits Spring | Credits |
|---|---|---------|
| HORT 101 ⁺⁺ | 3 AGBM 101, ECON 14, ECON 102, or ECON 104 [†] | 3 |
| ENGL 15, 30, or ESL 15 ⁺⁺ | 3 MATH 26 ⁺⁺ | 3 |
| AG 150 | 2 LARCH 60 [†] | 3 |
| General Education Course | 3 CAS 100, 100A, 100B, or 100C ⁺⁺ | 3 |
| General Education Course | 3 General Education Course | 3 |
| General Education Course (GQ) ⁺⁺ | 3 | |
| | 17 | 15 |

Second Year

| Fall | Credits Spring | Credits |
|------------------------------|-----------------------------------|---------|
| BIOL 127 or 110 [†] | 3-4 SOILS 101 [†] | 3 |
| EDSGN 10 | 1 ACCTG 211 | 4 |
| SPAN 1, 2, or 105 | 4 HORT 220 [*] | 3 |
| BA 250 | 3 ART 20 [†] | 3 |
| HORT 137 | 3 General Education Courses (GHW) | 1.5 |
| HORT 120 [*] | 2 | |
| | 16-17 | 14.5 |

Third Year

| Fall | Credits Spring | Credits |
|-----------------------|---------------------------|---------|
| CHEM 101 | 2-3 HORT 464 [*] | 4 |
| HORT 138 [*] | 3 HORT 408 [*] | 4 |
| HORT 269 [*] | 3 PLANT 217 | 3 |

| | | |
|-----------------------------------|--|-------|
| TURF 100 or 235 | 3 ENT 313, 314, HORT 238, PPEM 300, or PPEM 318 | 2-3 |
| General Education Course (GHW) | 1.5 ENGL 202D ^{††} | 3 |
| 12.5-13.5 | | 16-17 |

Fourth Year

| Fall | Credits Spring | Credits |
|--------------------------|-------------------------|---------|
| HORT 466 [*] | 5 HORT 368 [*] | 4 |
| HORT 131 [*] | 3 HORT 468 [*] | 2 |
| HORT 410W | 3 MKTG 220 or 220 | 3 |
| BLAW 243 | 3 Elective | 3-6 |
| General Education Course | | 3 |
| 14 | | 15-18 |

Total Credits 120-126

* Course requires a grade of C or better for the major

‡ Course requires a grade of C or better for General Education

Course is an Entrance to Major requirement

† Course satisfies General Education and degree requirement

University Requirements and General Education Notes:

US and IL are abbreviations used to designate courses that satisfy University Requirements (United States and International Cultures).

W, M, X, and Y are the suffixes at the end of a course number used to designate courses that satisfy University Writing Across the Curriculum requirement.

GWS, GQ, GHW, GN, GA, GH, and GS are abbreviations used to identify General Education program courses. General Education includes Foundations (GWS and GQ) and Knowledge Domains (GHW, GN, GA, GH, GS, and Integrative Studies). Foundations courses (GWS and GQ) require a grade of 'C' or better.

Integrative Studies courses are required for the General Education program. N is the suffix at the end of a course number used to designate an Inter-Domain course and Z is the suffix at the end of a course number used to designate a Linked course.

All incoming Schreyer Honors College first-year students at University Park will take ENGL/CAS 137 in the fall semester and ENGL/CAS 138 in the spring semester. These courses carry the GWS designation and replace both ENGL 30 and CAS 100. Each course is 3 credits.

Advising Note:

Please consult with your academic adviser regarding the selection of elective courses.

Management Option, University Park Campus

The course series listed below provides **only one** of the many possible ways to move through this curriculum. The University may make changes in policies, procedures, educational offerings, and requirements at any time. This plan should be used in conjunction with your degree audit (accessible in LionPATH as either an **Academic Requirements** or **What If** report). Please consult with a Penn State academic adviser on a regular basis to develop and refine an academic plan that is appropriate for you.

| First Year | | |
|--|---|---------|
| Fall | Credits Spring | Credits |
| HORT 101 ^{*††} | 3 AGBM 101, ECON 14, ECON 102, or ECON 104 [†] | 3 |
| ENGL 15, 30, or ESL 15 ^{††} | 3 MATH 26 ^{††} | 3 |
| AG 150 | 2 LARCH 60 [†] | 3 |
| General Education Course | 3 CAS 100, 100A, 100B, or 100C ^{††} | 3 |
| General Education Course (GQ) ^{††} | 3 General Education Course | 3 |
| 14 | | 15 |

Second Year

| Fall | Credits Spring | Credits |
|-----------------------------------|-----------------------|---------|
| BIOL 127 or 110 [†] | 3-4 SPAN 1, 2, or 105 | 4 |
| HORT 137 [*] | 3 ENT 313 | 2 |
| HORT 120 | 2 ENT 314 | 1 |
| SOILS 101 [†] | 3 BLAW 243 | 3 |
| BA 250 | 3 PPEM 318 or 300 | 2 |
| MKTG 220 or 220 | | 3 |
| General Education Course (GHW) | | 1.5 |
| 14-15 | | 16.5 |

Third Year

| Fall | Credits Spring | Credits |
|-----------------------|-------------------------------------|---------|
| HORT 138 [*] | 3 ACCTG 211 | 4 |
| CHEM 101 | 2-3 ENGL 202D ^{††} | 3 |
| HORT 238 [*] | 3 HORT 408 [*] | 4 |
| HORT 250 [*] | 3 PLANT 217 | 3 |
| TURF 100 or 235 | 3 General Education Course (GHW) | 1.5 |
| 14-15 | | 15.5 |

Fourth Year

| Fall | Credits Spring | Credits |
|--------------------------|----------------------------|---------|
| HORT 131 [*] | 3 SOILS 402 or 404 | 3 |
| HORT 410W | 3 HORT 468 [*] | 2 |
| General Education Course | 3 Elective | 3 |
| General Education Course | 3 Elective | 3 |
| Elective | 3 General Education Course | 3 |
| Elective | | 2-3 |
| 15 | | 16-17 |

Total Credits 120-123

* Course requires a grade of C or better for the major

‡ Course requires a grade of C or better for General Education

Course is an Entrance to Major requirement

† Course satisfies General Education and degree requirement

University Requirements and General Education Notes:

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Integrative Studies courses are required for the General Education program. N is the suffix at the end of a course number used to designate an Inter-Domain course and Z is the suffix at the end of a course number used to designate a Linked course.

All incoming Schreyer Honors College first-year students at University Park will take ENGL/CAS 137 in the fall semester and ENGL/CAS 138 in the spring semester. These courses carry the GWS designation and replace both ENGL 30 and CAS 100. Each course is 3 credits.

Advising Note:

Please consult with your academic adviser regarding the selection of elective courses.

Design/Build Option, Commonwealth Campuses

The course series listed below provides **only one** of the many possible ways to move through this curriculum. The University may make changes in policies, procedures, educational offerings, and requirements at any time. This plan should be used in conjunction with your degree audit (accessible in LionPATH as either an **Academic Requirements** or **What If** report). Please consult with a Penn State academic adviser on a regular basis to develop and refine an academic plan that is appropriate for you.

First Year

| Fall | Credits Spring | Credits |
|---|--|---------|
| ENGL 15, 30, or ESL 15 ^{††} | 3 MATH 26 ^{††} | 3 |
| AGBM 101, ECON 14, ECON 102, or ECON 102 [†] | 3 CAS 100, 100A, 100B, or 100C ^{††} | 3 |
| General Education Course | 3 ART 20 [†] | 3 |
| General Education Course (GHW) | 1.5 General Education Course | 3 |
| General Education Course (GQ) ^{††} | 3 General Education Course | 3 |
| First Year Seminar | 1-3 | |
| | 14.5-16.5 | 15 |

Second Year

| Fall | Credits Spring | Credits |
|------------------------------|-----------------------------------|-----------|
| BIOL 127 or 110 [†] | 3-4 CHEM 101 | 2-3 |
| ACCTG 211 | 4 SPAN 1, 2, or 105 | 4 |
| BLAW 243 | 3 ENGL 202D ^{††} | 3 |
| General Education Course | 3 General Education Courses (GHW) | 1.5 |
| Elective | 3 Elective | 3 |
| | 16-17 | 13.5-14.5 |

Third Year

| Fall | Credits Spring | Credits |
|-----------------------|-------------------------|---------|
| HORT 137 [*] | 3 HORT 464 [*] | 4 |
| HORT 269 [*] | 3 HORT 408 [*] | 4 |

| | | |
|---|-------------------------|----|
| HORT 101 (Elective) ^{††} | 3 PLANT 217 | 3 |
| HORT 120 [*] | 2 HORT 220 [*] | 3 |
| EDSGN 10 | 1 LARCH 60 | 3 |
| SOILS 101 | 3 | |
| ENT 313, 314, HORT 238, PPEM 300, or PPEM 318 | 2-3 | |
| | 17-18 | 17 |

Fourth Year

| Fall | Credits Spring | Credits |
|-----------------|----------------------------------|---------|
| HORT 131 | 3 HORT 368 [*] | 4 |
| HORT 138 | 3 HORT 468 [*] | 2 |
| HORT 410W | 3 MKTG 220 or 220 | 3 |
| HORT 466 | 5 BA 250 | 3 |
| TURF 100 or 235 | 3 General Education Course (GHW) | 1.5 |
| | 17 | 13.5 |

Total Credits 123.5-128.5

- * Course requires a grade of C or better for the major
- ‡ Course requires a grade of C or better for General Education
- # Course is an Entrance to Major requirement
- † Course satisfies General Education and degree requirement

University Requirements and General Education Notes:

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Integrative Studies courses are required for the General Education program. N is the suffix at the end of a course number used to designate an Inter-Domain course and Z is the suffix at the end of a course number used to designate a Linked course.

Advising Note:

Please consult with your academic adviser regarding the selection of elective courses.

Management Option, Commonwealth Campuses

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First Year

| Fall | Credits Spring | Credits |
|---|------------------------------|---------|
| BIOL 127 or 110 [†] | 3-4 CHEM 101 | 2-3 |
| ENGL 15, 30, or ESL 15 ^{††} | 3 MATH 26 ^{††} | 3 |
| General Education Course (GQ) ^{††} | 3 CAS 100 ^{††} | 3 |
| General Education Course (GHW) | 1.5 General Education Course | 3 |
| General Education Course | 3 General Education Course | 3 |
| First Year Seminar | 1-3 | |
| 14.5-17.5 | | 14-15 |

Second Year

| Fall | Credits Spring | Credits |
|---|------------------------------|---------|
| AGBM 101, ECON 14, ECON 102, or ECON 104 [†] | 3 ENGL 202D ^{††} | 3 |
| BLAW 243 | 3 ACCTG 211 | 4 |
| SPAN 1, 2, or 105 | 4 General Education Course | 3 |
| General Education Course (GHW) | 1.5 General Education Course | 3 |
| Elective | 3 Elective | 3 |
| 14.5 | | 16 |

Third Year

| Fall | Credits Spring | Credits |
|-------------------------|-------------------------|---------|
| HORT 137 [*] | 3 SOILS 402 or 404 | 3 |
| HORT 120 [*] | 2 MKTG 220 or 220 | 3 |
| HORT 238 [*] | 3 HORT 408 [*] | 4 |
| HORT 101 ^{*††} | 3 PLANT 217 | 3 |
| HORT 250 [*] | 3 LARCH 60 [†] | 3 |
| SOILS 101 [†] | 3 | |
| 17 | | 16 |

Fourth Year

| Fall | Credits Spring | Credits |
|-----------------------|-------------------|---------|
| HORT 138 [*] | 3 ENT 313 | 2 |
| HORT 131 [*] | 3 ENT 314 | 1 |
| HORT 410W | 3 HORT 468 | 2 |
| TURF 100 or 235 | 3 PPEM 318 or 300 | 2-3 |
| BA 250 | 3 Elective | 3 |
| | Elective | 3 |
| | Elective | 2-3 |
| 15 | | 15-17 |

Total Credits 122-128

- * Course requires a grade of C or better for the major
- ‡ Course requires a grade of C or better for General Education
- # Course is an Entrance to Major requirement
- † Course satisfies General Education and degree requirement

University Requirements and General Education Notes:

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Integrative Studies courses are required for the General Education program. N is the suffix at the end of a course number used to designate an Inter-Domain course and Z is the suffix at the end of a course number used to designate a Linked course.

Advising Note:

Please consult with your academic adviser regarding the selection of elective courses.

Career Paths

Career opportunities exist with landscape management firms, design/build firms, nurseries, public gardens, park systems, municipalities, golf courses, and garden centers. Graduates may find opportunities in marketing and sales, business management, estimating and bidding, and landscape design and management.

MORE INFORMATION ABOUT POTENTIAL CAREER OPTIONS FOR GRADUATES OF THE LANDSCAPE CONTRACTING PROGRAM (<http://plantscience.psu.edu/majors/landscape/potential-career-paths/>)

Opportunities for Graduate Studies

Students may pursue graduate studies in horticulture, landscape architecture, turfgrass science, ecosystems management, and other related fields.

MORE INFORMATION ABOUT OPPORTUNITIES FOR GRADUATE STUDIES (<http://plantscience.psu.edu/graduateprograms/>)

Professional Resources

- National Association of Landscape Professionals (<http://www.landscapeprofessionals.org>)
- Association of Professional Landscape Designers (<http://www.apld.org>)

Contact

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<http://plantscience.psu.edu/contact> (<http://plantscience.psu.edu/contact/>)