# TURFGRASS SCIENCE, B.S. 

Begin Campus: Any Penn State Campus
End Campus: University Park, World Campus

## Degree Requirements

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

| Requirement | Credits |
| :--- | :--- |
| General Education | 45 |
| Electives | 1 |
| Requirements for the Major | 92 |

## 18 of the 45 credits for General Education are included in the

 Requirements for the Major. This includes: 3 credits of GWS courses; 6 credits of GQ courses; 9 credits of GN courses.
## 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 (https://senate.psu.edu/policies-and-rules-for-undergraduate-students/82-00-and-83-00-degree-requirements/ \#82-44).

| Code | Title | Credits |
| :---: | :---: | :---: |
| Prescribed Courses |  |  |
| Prescribed Courses: Require a grade of C or better |  |  |
| AGBM 106 | Agribusiness Problem Solving | 3 |
| CHEM 202 | Fundamentals of Organic Chemistry I | 3 |
| ENT 317 | Turfgrass Insect Pest Management | 3 |
| MATH 21 | College Algebra with Analytic Geometry with Applications I | 3 |
| PPEM 412 | Turfgrass Disease Management | 3 |
| SOILS 101 | Introductory Soil Science | 3 |
| STAT 200 | Elementary Statistics | 4 |
| TURF 230 | Turfgrass Pesticides | 1 |
| TURF 235 | The Turfgrass | 3 |
| TURF 238 | Turf and Ornamental Weed Control | 3 |
| TURF 307 | Golf Course Irrigation and Drainage | 3 |
| TURF 425 | Turfgrass Cultural Systems | 3 |
| TURF 434 | Turfgrass Edaphology | 3 |
| TURF 435 | Turfgrass Nutrition | 4 |
| TURF 436W | Case Studies in Turfgrass Management | 3 |
| TURF 490 | Colloquium | 1 |
| TURF 495 | Internship | 3 |
| Additional Courses |  |  |
| BIOL 11 <br> \& BIOL 12 <br> or BIOL 110 | Introductory Biology I and Introductory Biology II <br> Biology: Basic Concepts and Biodiversity | 4 |
| BIOL 127 or HORT 101 | Introduction to Plant Biology Horticultural Science | 3 |
| $\begin{aligned} & \text { ENGL 202C } \\ & \quad \text { or ENGL 202D } \end{aligned}$ | Effective Writing: Technical Writing Effective Writing: Business Writing | 3 |
| METEO 3 | Weather Revealed: Introductory Meteorology | 3 |

or METEO 101 Understanding Weather Forecasting

| Additional Courses: Require a grade of C or better |  |
| :--- | :--- |
| CHEM 101 | Introductory Chemistry |
| or CHEM 110 | Chemical Principles I |
| or CHEM 130 | Introduction to General, Organic, and Biochemistry |

Supporting Courses and Related Areas
Select 12 credits from department professional agriculture list
Select 15 credits from department professional management and
economics list

## 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 (https://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 and Inter-Domain courses do not meet this requirement.) <br> - Quantification (GQ): 6 credits <br> - Writing and Speaking (GWS): 9 credits <br> Breadth in the Knowledge Domains (Inter-Domain courses do not meet this requirement.)

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


## Integrative Studies

- Inter-Domain Courses (Inter-Domain): 6 credits


## Exploration

- GN, may be completed with Inter-Domain courses: 3 credits
- GA, GH, GN, GS, Inter-Domain courses. This may include 3 credits of World Language course work beyond the 12th credit level or the requirements for the student's degree program, whichever is higher: 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 (https://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.

