

# Crop and Soil Sciences – Turfgrass Science

Eight Semester Plan for Bachelor of Science degree in Crop and Soil Sciences  
with a concentration in Turfgrass Science (11CSSCBS-11CSSCTFG)

Effective: August 2020

This plan outlines an ideal path for degree completion in four years. The plan assumes course availability as published in the NC State University Course Catalog. It does not reflect courses transferred to the university or credits earned through Advanced Placement. Questions related to this pathway can be directed to the [cropsoil-undergraduate-office@ncsu.edu](mailto:cropsoil-undergraduate-office@ncsu.edu)

## FRESHMAN YEAR

FALL SEMESTER	CREDITS	SPRING SEMESTER	CREDITS
ALS 103 - Freshman Transitions & Diversity in Ag & Life Sci <b>or</b> ALS 303 - Transfer Transitions & Diversity in Ag & Life Sci	1	CH 101 Chemistry – A Molecular Science	3
BIO 181 Intro Bio: Ecol, Evol, and Biodiversity	4	CH 102 General Chemistry Lab	1
ENG 101 Academic Writing and Research <sup>H</sup>	4	PB 200 Plant Life	4
MA 121 Elements of Calculus	3	ST 311 Intro to Statistics	3
CS 290 Professional Development in Plant and Soil Sciences	1	GEP Physical Education/Healthy Living Elective <sup>E</sup>	1
GEP Humanities Elective <sup>C</sup>	3	GEP Interdisciplinary Perspective Elective <sup>G</sup>	3
Total:	<b>16</b>	Total:	<b>15</b>

## SOPHOMORE YEAR

FALL SEMESTER	CREDITS	SPRING SEMESTER	CREDITS
ARE 201 Intro to Agri Res Economics <sup>D</sup>	3	Economics, Management and Policy Elective <sup>2</sup>	3
BIO 183 Intro Biology: Cell and Molecular Bio	4	CH 220 Organic Chemistry	3
CS 200 Intro to Turfgrass <sup>1</sup>	4	CH 222 Organic Chemistry Lab	1
GEP Physical Education/Healthy Living Elective <sup>E</sup>	1	COM 110 Pub Speaking <b>or</b> COM 112 Interpersonal Communication	3
PB 360 Intro to Ecology	4	SSC 200 Soil Science <sup>1</sup>	3
		SSC 201 Soil Science Lab <sup>1</sup>	1
Total:	<b>16</b>	Total:	<b>14</b>

## JUNIOR YEAR

FALL SEMESTER	CREDITS	SPRING SEMESTER	CREDITS
PP 315 Principles of Plant Pathology	4	PB 321 Intro Whole Plant Physiology	3
SSC 341 Soil Fertility & Nutrient Management	3	CS 211 Plant Genetics	3
ENG 331 Comm for Engineering and Tech <b>or</b>	3	CS 400 Turf Cultural Systems <sup>1</sup>	3
ENG 332 Comm for Business & Management <b>or</b>			
ENG 333 Comm for Science & Research			
GEP Interdisciplinary Perspective Elective <sup>G</sup>	2	PY 131 Conceptual Physics	4
GEP Humanities Elective <sup>C</sup>	3	SSC 342 Soil & Plant Nutrient Analysis	1
Total:	<b>15</b>	Total:	<b>14</b>

**SENIOR YEAR**

FALL SEMESTER	CREDITS	SPRING SEMESTER	CREDITS
CS 465 Env. Issues in Turf Management <sup>1</sup>	3	CS 470 Adv. Turf Pest Management	2
CS 414 Weed Science	4	GEP Social Sciences Elective <sup>D</sup>	3
HS 471 Landscape Ecosystem Management	4	GEP Additional Breadth Elective <sup>F</sup>	3
SSC 461 Soil Physical Properties	3	Free Electives	5
Experiential Learning Elective <sup>3</sup>	3		
Total:	<b>17</b>	Total:	<b>13</b>

Minimum Credit Hours Required for Graduation <sup>\*I,J,K,4:</sup> **120**

**Major/Program Footnotes:**

<sup>1</sup> A grade of C- or better is required for CS 200, CS 400, and CS 465.

<sup>2</sup> Economics, Policy and Management Electives. Three credits from: ARE 215, ARE 301, ARE 304, ARE 306, ARE 309, ARE 312, ARE 332, BUS 225, BUS 320, BUS 340, BUS 420, CS 418, PS 320.

<sup>3</sup> Experiential Learning Elective: Three credits from CSSC 492 or CSSC 493.

**\*General Education Program (GEP) requirements and GEP Footnotes:**

To complete the requirements for graduation and the General Education Program, the following category credit hours and co-requisites must be satisfied.

University approved GEP course lists for each of the following categories can be found at <http://www.ncsu.edu/uap/academic-standards/gep/courselists/index.html>.

- A. **Mathematical Sciences** (6 credit hours – one course with MA or ST prefix)  
Choose from the University approved GEP Mathematical Sciences course list or the following course(s) if completed as part of the Major requirements may fulfill part or all of this requirement: **These requirements are met through required courses. Students do not need to take additional math.**
- B. **Natural Sciences** (7 credit hours – include one laboratory course or course with a lab)  
Choose from the University approved GEP Natural Sciences course list or the following course(s) if completed as part of the Major requirements may fulfill part or all of this requirement: **These requirements are met through required courses. Students do not need to take additional science.**
- C. **Humanities** (6 credit hours selected from two different disciplines/course prefixes)  
Choose from the University approved GEP Humanities course list or the following course(s) if completed as part of the Major requirements may fulfill part or all of this requirement.
- D. **Social Sciences** (6 credit hours selected from two different disciplines/course prefixes)  
Choose from the University approved GEP Social Sciences course list or the following course(s) if completed as part of the Major requirements may fulfill part or all of this requirement: **3 hours are met by the ARE 201 requirement; 3 hours are met by COM 112 if chosen**
- E. **Physical Education/Healthy Living** (2 credit hours – at least one 100-level Fitness and Wellness Course)  
Choose from the University approved GEP Physical Education/Healthy Living course list.
- E. **Additional Breadth** - (3 credit hours to be selected from the following checked University approved GEP course lists)  
 Humanities/Social Sciences/Visual and Performing Arts or \_\_\_\_\_ Mathematical Sciences/Natural Sciences/Engineering
- G. **Interdisciplinary Perspectives** (5-6 credit hours)  
Choose from the University approved GEP Interdisciplinary Perspectives course list or the following course(s) if completed as part of the Major requirements may fulfill part or all of this requirement.
- H. **Introduction to Writing** (4 credit hours satisfied by completing ENG 101 with a C- or better )

The following **Co-Requisites** must be satisfied to complete the General Education Program requirements:

- I. **U.S. Diversity** (USD)  
Choose from the University approved GEP U.S. Diversity course list or choose a course identified on the approved GEP course lists as meeting the U.S. Diversity (USD) co-requisite. The following course(s) completed as part of the Major requirements may fulfill this requirement.
- J. **Global Knowledge** (GK)  
Choose from the University approved GEP Global Knowledge course list or choose a course identified on the approved GEP course lists as meeting the Global Knowledge (GK) co-requisite. The following course(s) completed as part of the Major requirements may fulfill this requirement.
- K. **Foreign Language proficiency** - Proficiency at the FL\_102 level is required for graduation.