

Crop and Soil Sciences – Soil Science

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

Effective: July 2019

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

FRESHMAN YEAR

FALL SEMESTER	CREDITS	SPRING SEMESTER	CREDITS
ALS 103 Freshman Transitions & Diversity <u>or</u> ALS 303 Transfer Transitions & Diversity	1	BIO 183 Intro. Biol: Cell. & Molec. Biol. <u>or</u> PB 200 Plant Life	4
BIO 181 Intro to Biology: Ecol, Evol, and Biodiv.	4	CH 101 Chemistry – A Molecular Science	3
ENG 101 Academic Writing and Research	4	CH 102 General Chemistry Lab	1
MA 121 Elements of Calculus	3	MEA 101 Geology I: Physical	3
CS 290 Professional Development in Plant and Soil Sciences	1	MEA 110 Geology I: Lab	1
Foundation Elective ¹	3	Physical Education/Healthy Living Elective ^E	1
		GEP Humanities Elective ^C	3
Total:	16	Total:	16

SOPHOMORE YEAR

FALL SEMESTER	CREDITS	SPRING SEMESTER	CREDITS
ARE 201 Intro to Agricultural and Resource Economics	3	CS 213 Crop Science	3
SSC 200 Soil Science	3	CS 214 Crop Science Laboratory	1
SSC 201 Soil Science Laboratory	1	SSC 332 Environ. Soil Microbiology	3
COM 110 Public Speaking <u>or</u> COM 112 Interpersonal Communications	3	SSC 452 Soil Classification	4
ST 311 Intro to Statistics	3	Restricted Elective ⁴	3
Physical Education/Healthy Living Elective ^E	1		
Total:	14	Total:	14

JUNIOR YEAR

FALL SEMESTER	CREDITS	SPRING SEMESTER	CREDITS
SSC 461 Soil Physical Properties & Plant Growth	3	SSC 341 Soil Fertility & Nutrient Management	3
Soil Science Elective ²	3	SSC 442 Soil & Environmental Biogeochemistry	3
Economics, Management and Policy Elective ³	3	PY 131 Conceptual Physics	4
GEP Additional Breadth Elective ^F	3	Economics, Management and Policy Elective ³	3
ENG 331 Comm for Engineering & Technology <u>or</u> ENG 332 Comm for Business & Management <u>or</u> ENG 333 Comm for Science & Research	3	Restricted Elective ¹	3
Total:	15	Total:	16

SENIOR YEAR

FALL SEMESTER	CREDITS	SPRING SEMESTER	CREDITS
SSC 342 Soil & Plant Nutrient Analysis	1	PB 321 Intro to Whole Plant Physiology	3
GEP Social Sciences Elective ^D	3	SSC 490 Senior Seminar	1
Soil Science Elective ²	3	Restricted Elective ⁴	3
GEP Humanities Elective ^C	3	GEP Interdisciplinary Perspectives Elective ^G	2
Restricted Elective ⁴	3	Free Elective	4
Experiential Learning Elective ⁵	3		
Total:	16	Total:	13

Minimum Credit Hours Required for Graduation * : **120**

Major/Program Footnotes:

¹ Foundation Elective: Select from FW 221 or SSC 185.

² Soil Science Electives: Select from SSC 421, SSC 427, SSC 440, SSC 462, and SSC 470.

³ Economics, Management and Policy Electives: Select from ACC 280, ARE 215, ARE 306, ARE 309, ARE 312, ARE 332, ARE 336, CS 418, NR 460, PS 201, PS 202, and PS 320.

⁴ Restricted Electives: Select from AES 323, BAE 325, CS 200, CS 211, CS 216, CS 218, CS 224, CS 230, CS 312, CS 410, CS 411, CS 414, CS 415, CS 424, CS 430, ES 100, ES 150, ET 201, ET 202, ET 203, FOR 420, GIS 280, MEA 300, NR 300, NR 400, NR 421, SSC 410, and SSC 428.

⁵ Experiential Learning Elective: Select 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. **3 hours are met by FW 221 or SSC 185 in the Foundation Elective 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.