

Crop and Soil Sciences – Crop Biotechnology

NC Community College Pathway for Bachelor of Science degree in Crop and Soil Sciences
with a concentration in Crop Biotechnology (11CSSCBS-11CSSPCB)

This pathway plan assumes the student has placed out of all developmental and prerequisite courses. North Carolina Community College classes are listed below in **bold** with the fulfilled NC State degree requirement listed next to the course. While a pathway for transition to NC State, this guide should be used for advising purposes only. Questions related to the community college courses should be directed to a community college advisor. Questions related to NC State courses can be directed to the cropsoil-undergraduate-office@ncsu.edu

NC COMMUNITY COLLEGE FIRST YEAR			
FALL SEMESTER	CREDITS	SPRING SEMESTER	CREDITS
ENG 111 – ENG 101 Academic Writing and Research	3	ENG 112 – GEP Requirement	3
MAT 271 – Calculus I	4	MAT 272 – Calculus II	4
BIO 112 – BIO 181 Intro to Biology: Ecol, Evol, and Biodiversity	4	BIO 111 – BIO 183 Intro. Biol: Cell. & Molec. Biol.	4
COM 120 or 231 – COM 110 Public Speaking or COM 112 Interpersonal Communications	3	CHM 151 – CH 101 & 102 General Chemistry & Lab	4
ACA 122 – Free Elective	1		
Total:	15	Total:	15

NC COMMUNITY COLLEGE SECOND YEAR			
FALL SEMESTER	CREDITS	SPRING SEMESTER	CREDITS
CHM 251 – CH 221 & 222 Organic Chemistry I & Lab	4	CHM 252 – CH 223 & 224 Organic Chemistry II & Lab	4
HUM 110 – Interdisciplinary Perspectives GEP Elective	3	PHY 110 & 110A – PY 131 Conceptual Physics	4
ECO 251 – ARE 201 Intro to Agricultural and Resource Economics	3	MAT 152 – ST 311 Intro to Statistics	3
Additional Breadth GEP Elective ^c	3	Social Sciences GEP Elective ^b	3
Humanities GEP Elective ^a	3		
Total:	16	Total:	14

NC STATE UNIVERSITY JUNIOR YEAR			
FALL SEMESTER	CREDITS	SPRING SEMESTER	CREDITS
ALS 303 Transfer Transitions & Diversity	1	CS 211 Plant Genetics	3
CSSC 290 Professional Development in Plant and Soil Sciences	1	PB 421 Plant Physiology	3
Foundation Elective ¹	3	BCH 351 Gen Biochemistry	3
CS 213 Crop Science	3	Restricted Electives ³	6
CS 214 Crop Science Laboratory	1	Physical Education/Healthy Living Elective	1
SSC 200 Soil Science	3		
SSC 201 Soil Science Laboratory	1		
Restricted Electives ³	3		
Physical Education/Healthy Living Elective	1		
Total:	17	Total:	16

NC STATE UNIVERSITY SENIOR YEAR

FALL SEMESTER	CREDITS	SPRING SEMESTER	CREDITS
BIT 410 Manipulation of Recomb DNA	4	CS 413 Plant Breeding	2
Biotechnology Elective ²	4	Restricted Elective ³	4
PB 480 Introduction to Plant Biotechnology	3	Free Electives ^d	4
Experiential Learning Elective ⁴	3	ENG 331 Comm for Engineering & Technology or ENG 332 Comm for Business & Management or ENG 333 Comm for Science & Research	3
Humanities GEP Elective ^a	3		
Total:	17	Total:	15

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

^a Humanities GEP Electives

A total of six credits from two different disciplines

<u>Community College Course</u>	<u>NC State Course Equivalent</u>
ENG 231 American Literature I	ENG 265
ENG 232 American Literature II	ENG 266
ENG 241 British Literature I	ENG 261
ENG 242 British Literature II	ENG 262
ENG 243 Major British Writers	ENG 251
PHI 215 Philosophical Issues	PHI 205
PHI 220 Western Philosophy I	PHI 300
PHI 240 Introduction to Ethics	PHI 221
REL 110 World Religions	REL 210
REL 211 Intro to Old Testament	REL 311
REL 212 Intro to New Testament	REL 312
SOC 250 Sociology of Religion	SOC 309

^b Social Sciences GEP Electives

<u>Community College Course</u>	<u>NC State Course Equivalent</u>
HIS 111 World Civilizations I	HI 232
HIS 112 World Civilizations II	HI 233
HIS 131 American History I	HI 251
HIS 132 American History II	HI 252
POL 120 American Government	PS 201
POL 130 State & Local Government	PS 202
POL 210 Comparative Government	PS 241
POL 220 International Relations	PS 231
PSY 150 General Psychology	PSY 200
SOC 210 Introduction to Sociology	SOC 202

^c **Additional Breadth GEP Electives**

<u>Community College Course</u>	<u>NC State Course Equivalent</u>
ART 114 Art History Survey I	HA 201
ART 115 Art History Survey II	HA 202
ART 116 Survey of American Art	HA 203
ENG 231 American Literature I	ENG 265
ENG 232 American Literature II	ENG 266
ENG 241 British Literature I	ENG 261
ENG 242 British Literature II	ENG 262
ENG 243 Major British Writers	ENG 251
HIS 111 World Civilizations I	HI 232
HIS 112 World Civilizations II	HI 233
HIS 131 American History I	HI 251
HIS 132 American History II	HI 252
MUS 110 Music Appreciation	MUS 105
MUS 112 Introduction to Jazz	MUS 260
PHI 215 Philosophical Issues	PHI 205
PHI 220 Western Philosophy I	PHI 300
PHI 240 Introduction to Ethics	PHI 221
POL 120 American Government	PS 201
POL 130 State & Local Government	PS 202
POL 210 Comparative Government	PS 241
POL 220 International Relations	PS 231
PSY 150 General Psychology	PSY 200
REL 110 World Religions	REL 210
REL 211 Intro to Old Testament	REL 311
REL 212 Intro to New Testament	REL 312
SOC 210 Introduction to Sociology	SOC 202
SOC 250 Sociology of Religion	SOC 309

^d **Free Electives**

Any course that transfers to NC State University. Reference: go.ncsu.edu/transfer-translator

Major/Program Footnotes:

¹ **Foundation Elective:** Select from ANT 261, CS 224, or STS 302.

² **Biotechnology Electives:** Select from BEC 463, BIO 572, BIT 100, BIT 200, BIT 210, BIT 211, BIT 295, BIT 462, BIT 463, BIT 464, BIT 465, BIT 466, BIT 467, BIT 468, BIT 471, BIT 473, BIT 474, BIT 476, BIT 477, BIT 478, BIT 479, BIT 480, BIT 481, BIT 492, BIT 493, BIT 495, BIT 501, BIT 502, BIT 510, BIT 562, BIT 563, BIT 564, BIT 565, BIT 566, BIT 567, BIT 568, BIT 569, BIT 571, BIT 572, BIT 573, BIT 574, BIT 577, BIT 578, BIT 579, BIT 580, BIT 581, BIT 590, BIT 595, CH 572, CHE 463, CHE 563, MB 210, MB 211, PB 481, and PO 466.

³ **Restricted Electives:** Select from AEC 360, BIO 330, BIO 414, BIT 476, BIT 481, CS 211, CS 216, CS 218, CS 224, CS 230, CS 312, CS 411, CS 414, CS 415, CS 418, CS 424, CS 430, CS 480, CS 490, CS 495, ENT 425, GN 311, GN 312, GN 421, GN 423, MB 200, MB 351, PB 200, PB 250, PB 295, PB 345, PB 346, PB 400, PB 403, PB 405, PB 413, PB 414, PB 495, PB 565, PB 570, PB 575, PP 315, PP 495, SSC 185, SSC 332, SSC 341, SSC 342, SSC 421, SSC 427, SSC 428, SSC 440, SSC 442, SSC 452, SSC 455, SSC 461, SSC 462, SSC 470, ST 371, STS 302, STS 304, and STS 323.

⁴ **Experiential Learning Elective:** Select from CSSC 492 or CSSC 493