

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 111 – BIO 183 Intro. Biol: Cell. & Molec. Biol.	4	BIO 112 – BIO 181 Intro to Biology: Ecol, Evol, and Biodiversity	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

Apply to **NC STATE UNIVERSITY**

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 Recom 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**

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

Transfer Translator

Community College Course	NC State Course Equivalent
^a Humanities GEP Electives (total of 6 credits required) <i>Choose two courses from different disciplines</i>	
ENG 231 American Literature I	ENG 265
ENG 232 American Literature II	ENG 266
ENG 233 Major American Writers	ENG 252
ENG 241 British Literature I	ENG 262
ENG 242 British Literature II	ENG 262
ENG 243 Major British Writers	ENG 251
ENG 251 West World Literature I	ENG 221
ENG 252 West World Literature II	ENG 222
ENG 273 African-Amer Lit	ENG 248
ENG 275 Science Fiction	ENG 376
HIS 111* or HIS 121 World or West Civ. I	HI 207
HIS 112 World Civilization II	HI 205
HIS 212 Medieval History	HI 208
HIS 213 Modern Europe to 1815	HI 209
HIS 214 Modern Europe since 1815	HI 210
HIS 121 Western Civilization I	HI 207
HIS 122 Western Civilization II	Hi 205
HIS 131 American History I	HI 251
HIS 132 American History II	HI 252
HIS 165 Twentieth Century World	HI 233
HIS 211 Ancient History	HI 207
HIS 212 Medieval History	HI 208
HIS 213 Modern Europe to 1815	HI 209
HIS 214 Modern Europe since 1815	HI 210
HIS 236 North Carolina History	HI 364
HIS 251 English History I	HI 221
HIS 252 English History II	HI 222
PHI 215 Philosophical Issues	PHI 205
PHI 220 Western Philosophy I	PHI 300

Community College Course	NC State Course Equivalent
PHI 221 Western Philosophy II	PHI 301
PHI 230 Intro to Logic	PHI 250
PHI 240 Introduction to Ethics	PHI 221
PHI 250 Philosophy of Science	PHI 340
REL 211 Intro to Old Testament	REL 311
REL 212 Intro to New Testament	REL 312
REL 221 [#] Religion in America	REL 320

^c Additional Breadth GEP Elective (total of 3 credits required) Choose one course

ENG 231 American Literature I	ENG 266
ENG 232 American Literature II	ENG 261
ENG 233 Major American Writers	ENG 252
ENG 241 British Literature I	ENG 262
ENG 242 British Literature II	ENG 251
ENG 243 Major British Writers	ENG 221
ENG 251 West World Literature I	ENG 222
ENG 252 West World Literature	ENG 248
ENG 273 African-Amer Lit	ENG 376
ENG 275 Science Fiction	ENG 376
HIS 111 World Civilizations I	HI 207
HIS 112 World Civilizations II	HI 205
HIS 211 Ancient History	HI 207
HIS 212 Medieval History	HI 208
HIS 213 Modern Europe to 1815	HI 209
HIS 214 Modern Europe since 1815	HI 210
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
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
REL 221 Religion in America	REL 320
SOC 210 Introduction to Sociology	SOC 202
SOC 213 Sociology of Family	SOC 204
SOC 220 [#] Social Problems	SOC 203
SOC 230 Race & Ethic Relations	SOC 305
SOC 240 Social Psychology	SOC 301
SOC 242 Social Deviance	SOC 301
SOC 252 Sociology of Work	SOC 205

^b Social Sciences GEP Elective (total of 3 credits required) Choose one course

ANT 220* Cultural Anthropology	ANT 252
ANT 230 Physical Anthropology	ANT 251
ANT 240* Archaeology	ANT 253
PSY 150 General Psychology	PSY 200
PSY 241 Developmental Psych	PSY 376
PSY 237 Social Psychology	PSY 311
PSY 263 Educational Psychology	EDP 304
SOC 210 Introduction to Sociology	SOC 202
SOC 213 Sociology of Family	SOC 204
SOC 220 Social Problems	SOC 203
SOC 230 Race & Ethic Relations	SOC 305

Community College Course	NC State Course Equivalent
SOC 240 Social Psychology	SOC 301
SOC 242 Sociology of Deviance	SOC 206
SOC 252 Sociology of Work	SOC 205

* Course numbers followed by an * will also count for NC State University's Global Knowledge requirement.

Course numbers followed by a # will also count for NC State University's US Diversity requirement.

^d **Free Electives** – Any course that transfers to NC State University. Reference: go.ncsu.edu/transfer-translator