

NC Community College Four-Year Pathway Plan

Schedule for Full-Time Students

Pursuing AS Degree & transfer into Chemical Engineering (BS) at NCSU.
(Placed Out Of All Developmental Courses)

North Carolina Community College classes are listed below in bold with the NC State degree requirements fulfilled listed next to the classes.

North Carolina State University **strongly recommends** students complete their Associate's degree prior to transferring to NCSU. Pathways are structured for students who have completed all requirements for their Associate's degree and [qualify for the CAA](#).

*****This degree pathway requires a 6th semester at NC State. Please see the NC State schedule of courses for more details.*****

NC COMMUNITY COLLEGE FIRST YEAR				
Fall Semester	Credit		Spring Semester	Credit
ENG 111 - ENG 101: Academic Writing and Research	3		ENG 112 - GEP Requirement	3
MAT 271 – MA 141, Calculus I	4		MAT 272 – MA 241, Calculus II	4
CHM 151 – CH 101: General Chemistry I, CH 102: General Chemistry I Lab	4		CHM 152 – CH 201 & CH 202: Quantitative Chemistry/Lab	4
ECO 251 – EC 201, Departmental Economics Requirement	3		PHY 251 – PY 205 & PY 206	4
ACA 122 - Free Elective	1		EGR 150 – Departmental Substitution for E 101	2
TOTAL CREDIT HOURS	15		TOTAL CREDIT HOURS	17

Students must take ACA 122 in the first or second semester.

NC COMMUNITY COLLEGE SECOND YEAR				
Fall Semester	Credit		Spring Semester	Credit
PHY 252 – PY 208 & PY 209	4		PSY 150 – PSY 200, GEP Social Science	3
ENG 231 – ENG 265, GEP Humanities	3		CHM 251 – CH 221 & CH 222: Organic Chemistry I/Lab	4
MAT 273 – MA 242, Calculus III	4		POL 130 – PS 202, GEP Interdisciplinary Perspectives	3
DFT 170 – GC 120, GEP Additional Breadth	3		MAT 285 – MA 341, Differential Equations	3
COM 231 – COM 110, GEP Humanities	3		TOTAL CREDIT HOURS	13
TOTAL CREDIT HOURS	17			

THIS SHEET IS FOR ADVISING PURPOSES ONLY. Students should work with their Advisor to determine course selections that will result in the greatest transferrable credit, for the intended program, upon transfer to the four-year school.

Note 4-semester outline based upon no pre-requisites classes required.

- Students should seek academic advising to determine the best courses and sequence to meet their educational goals and degree requirements.
- Following the Pathway to Degree does not guarantee admission to NC State University or guarantee an AS degree or BS degree will be conferred.
- Please refer to NC State Undergraduate Admissions for more information on admission to NC State and the transfer of credits to NC State: <http://admissions.ncsu.edu/transfer-students/>

NC STATE UNIVERSITY

Schedule of Courses for the Chemical Engineering (BS) (14CHEBS)

Before applying please consult the [Transfer Admission Review Standards](#) for admission into the College of Engineering.

***Students will need to complete 6 semesters at NC State to earn this degree. Please contact the College of Engineering for academic planning assistance ***

NC STATE JUNIOR YEAR			
Fall Semester	Credit		Spring Semester
E 115: Intro to Computing Environments	1		CHE 225: Intro Chemical Engineering Analysis
CHE 205: Chemical Process Principles	4		MSE 201: Structure/Properties of Engineering Materials
CH 223 & CH 224: Organic Chemistry II/Lab	4		CHE 315: Quantitative Analysis
TOTAL CREDIT HOURS	9		CHE 316: Quantitative Analysis Lab
			TOTAL CREDIT HOURS
			10
NC STATE SENIOR YEAR			
Fall Semester	Credit		Spring Semester
CHE 311: Transport Processes I	3		CHE 312: Transport Processes II
CHE 315: Chemical Process Thermodynamics	3		CHE 316: Thermodynamics: Chemical/Phase Equations
CHE 395: Professional Development Seminar	1		CHE 330: Chemical Engineering I
CH *** elective	4		Free Elective
TOTAL CREDIT HOURS	11		TOTAL CREDIT HOURS
			13
Minimum Credit Hours Required for Graduation:			see
Hours Remaining in NC State Degree:			below

NC STATE SENIOR 5th YEAR

Fall Semester	Credit		Spring Semester	Credit
CHE 331: Chemical Engineering Lab II	2		CHE 435: Process System Analysis and Control	3
CHE 446: Design Analysis of Chemical Reactors	3		CHE 451: Chemical Engineering Design I	3
CHE 450: Chemical Engineering Design I	3		Tech Elective	3
Tech Elective	3		TOTAL CREDIT HOURS	9
TOTAL CREDIT HOURS	11			

Minimum Credit Hours Required for Graduation:	125
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Hours Remaining in NC State Degree:	63
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