

NC Community College Four-Year Baccalaureate Degree Plan

Schedule for Full-Time Students Revised Fall 2018

Pursuing AS Degree & transfer into **Chemical Engineering** (BS) at NCSU.

(Placed Out Of All Developmental Courses)

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](#).

Community College First Semester			
NC CC Course	Hours	NC State Equivalent	Notes
ENG 111	3	ENG 101	ENG 101, University Writing Requirement
MAT 271	4	MA 141	Calculus I, Major Requirement
CHM 151	4	CH 101 & CH 102	General Chemistry I/Lab, Major Requirement
ECO 251	3	EC 201	Microeconomics, Major Economics Requirement
ACA 122	1	TR ***	Transfer Credit
TOTAL	15 credit hours		

Community College Second Semester			
NC CC Course	Hours	NC State Equivalent	Notes
ENG 112	3	ENG 1**	ENG 111 + ENG 112 = ENG 101 + ENG 1**
MAT 272	4	MA 241	Calculus II, Major Requirement
PHY 251	4	PY 208 & PY 209	Physics I/Lab, Major Requirement
EGR 150	2	E ***	Engineering Elective, Departmental Substitution for E 101
CHM 152	4	CH 201 & CH 202	Quantitative Chemistry & Lab, Major Requirement
TOTAL	17 credit hours		

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 Baccalaureate Degree Plan 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/>

Community College Third Semester			
NC CC Course	Hours	NC State Equivalent	Notes
MAT 273	4	MA 242	Calculus III, Major Requirement
PHY 252	4	PY 208 & PY 209	Physics II/Lab, Major Requirement
DFT 170	3	GC 120	GEP Requirement, Dept. Recommendation
COM 231	3	COM 110	Public Speaking, GEP Humanities (may choose other appropriate UGETC Humanities or Fine Arts)
ENG 231	3	ENG 265	American Lit I, GEP Humanities (may choose other appropriate UGETC Humanities or Fine Arts)
TOTAL	17 credit hours		

Community College Fourth Semester			
NC CC Course	Hours	NC State Equivalent	Notes
MAT 285	3	MA 341	Differential Equations, Major Requirement
UGETC/GenEd	3	Variable	GEP requirement
CHM 251	4	CH 221 & CH 222	Organic Chemistry I/Lab, Major Requirement
PSY 150	3	PSY 200	PSY 200, GEP Social Science (may choose other appropriate UGETC Social Science)
TOTAL	13 credit hours		

Recommendations for Competitive Applicants & Program Notes:

- > Minimum 3.5 cumulative GPA (Acceptance is highly competitive and on space-available basis)
- > English Composition I & II equal to NC State's ENG 101
- > 8 semesters Calculus equal to NC State's MA 141 & MA 241
- > Calculus-based Physics equal to NC State's PY 205 & 206
- > General Chemistry & Lab equal to NC State's CH 101 & 102
- > Please contact the College of Engineering at 919-515-3263 or engineering@ncsu.edu for additional requirements and recommendations. Requirements subject to change and meeting requirements does not guarantee admission to program. **Program requires a 5th year at NC State and students who need full-time hours may wish to consider a minor or double major.**

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NC STATE UNIVERSITY

Schedule of Courses for the Chemical Engineering (BS) (14CHEBS) Curriculum for Fall 2018

Junior Fall		Junior Spring	
CHE 205: Chemical Process/Principles	4 hours	CHE 225: Intro Chem Engr, Analysis	3 hours
CH 223: Organic Chemistry II	3 hours	MSE 201: Struc/Prop Engr Materials	3 hour
CH 224: Organic Chemistry II Lab	1 hour	CH 315: Quantitative Analysis	3 hours
E 115: Intro Computing Environme CHE 330: Chem Engr. Lab I nts	1 hour	CH 316: Quantitative Analysis Lab	1 hour
Total Hours	9 hours	Total hours	10 Hours

Senior Fall		Senior Spring	
CHE 311: Transport Processes I	3 hours	CHE 312: Transport Processes II	3 hours
CHE 315: Chemical Process/Thermo	3 hours	CHE 316: Thermo/Chem & Phase Eq.	3 hours
CHE 395: Professional Dev. Seminar	1 hour	CHE 330: Chem Engr. Lab I	4 hours
CH Elective	4 hours	Free Elective	3 hours
Total Hours	11 hours	Total Hours	13 Hours

5 th Year Fall		5 th Year Spring	
CH 331: CHE 330: Chem Engr. Lab II	2 hour	CHE 435: Process System/Analy Control	3 hours
CHE 446: Des/Analysis Ch Reactors	3 hours	CHE 451: CHE Design II	3 hours
CHE 450: CHE Design I	3 hour	Tech Elective	3 hours
Tech Elective	3 hours		
Total Hours	11 hours	Total Hours	9 Hours

Total Hours, Associate of Science: 62

Total Hours, BS Computer Science: 63