

NC Community College Four-Year Pathway Plan

Schedule for Full-Time Students
Pursuing AS Degree & transfer into Paper Science 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. The department recommends adding a minor or taking additional, relevant courses if needed to maintain full-time status.*****

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 201/202: 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
COM 231 – COM 110, GEP Humanities	3		DFT 170 – GC 120, GEP Requirement	3
MAT 273 – MA 242, Calculus III	4		CHM 251 – CH 223/224: Organic Chemistry II/Lab	4
CHM 251 – CH 221/222: Organic Chemistry I/Lab	4		POL 130 – GEP Requirement	3
TOTAL CREDIT HOURS	15		ENG 231 – ENG 265, GEP Humanities	3
			TOTAL CREDIT HOURS	16

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 Paper Science and Engineering (BS) (15PSEBS)

Before applying please consult the [Transfer Admission Review Standards](#) for admission into the College of Engineering.
*****This degree pathway requires a 6th semester at NC State. The department recommends adding a minor or taking additional, relevant courses if needed to maintain full-time status.*****

NC STATE JUNIOR YEAR				
Fall Semester	Credit		Spring Semester	Credit
E 115: Intro to Computing Environments	1		MAE 201: Engineering Thermodynamics I	3
Advised Elective	3		PSE 201: Pulping and Papermaking Technology	3
CHE 205: Chemical Process Principles	4		PSE 332: Wood & Pulping Chemistry	3
TOTAL CREDIT HOURS	8		Engineering Elective	3
			TOTAL CREDIT HOURS	12
NC STATE SENIOR YEAR				
Fall Semester	Credit		Spring Semester	Credit
PSE 212: Paper Properties	4		PSE 371: Pulping Process Analysis	3
PSE 211: Pulp & Paper Internship	1		PSE 360: Pulp & Paper Unit Processes II	3
PSE 355: Pulp & Paper Unit Processes I	3		Advised Elective	3
TOTAL CREDIT HOURS	8		TOTAL CREDIT HOURS	9
NC STATE FIFTH YEAR				
Fall Semester	Credit		Spring Semester	Credit
PSE 322: Wet End/Polymer Chemistry	4		PSE 416: Project Design and Analysis	3
PSE 415: Paper Industry Strategic Project Analysis	3		PSE 465: Paper Physics & Product Design	3
PSE 417: Process Design and Analytics Lab	3		PSE 472: Paper Process Analysis	3
PSE 425: Bioenergy and Biomaterials Engineering	3		Advised Elective	3
PSE 475: Process Control	3		TOTAL CREDIT HOURS	12
TOTAL CREDIT HOURS	16			

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Minimum Credit Hours Required for Graduation:	128
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Hours Remaining in NC State Degree:	65
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