

NC Community College Four-Year Pathway Plan

Schedule for Full-Time Students

Pursuing AS Degree & transfer into Industrial 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](#).

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		DFT 170 – GC 120, GEP Requirement	3
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	16

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		COM 231 – COM 110, Communication Requirement	3
MAT 273 – MA 242, Calculus III	4		MA 285 – Departmental Substitute for MA 303	3
MAT 280 – Departmental Substitute for MA 303	3		EGR 220 – Departmental Substitute for MAE 206	3
HUM 110 – STS 214, GEP Interdisciplinary Perspectives	3		TOTAL CREDIT HOURS	12
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 Industrial Engineering (BS) (14IEBS)

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

NC STATE JUNIOR YEAR				
Fall Semester	Credit		Spring Semester	Credit
E 115: Intro to Computing Environments	1		ISE 315: Intro to CAM	1
ISE 110: Computer Modeling for Engineers	3		ISE 316: Manufacturing Engineering I: Processes	3
ISE 215: 3D Modeling for Engineers	1		ECE 331:	3
ISE 216: Product Development and Rapid Prototyping	3		ST 372: Statistical Inference and Regression	3
MSE 200: Mechanical Properties of Structural Materials	3		Engineering/Science Elective	3
ST 371: Probability and Statistics for Engineers	3		ENG 331: Communication for Scientists/Engineers	3
Tech Elective	3			
TOTAL CREDIT HOURS	17		TOTAL CREDIT HOURS	16
NC STATE SENIOR YEAR				
Fall Semester	Credit		Spring Semester	Credit
ISE 408: Control of Production and Service Systems	3		ISE 498: Senior Design Project II	4
ISE 453: Design of Production, Logistics and Service Systems	3		Tech Elective	3
ISE 311: Engineering Economic Analysis	3		ISE 443: Quality Control	3
ISE 441: Intro to Simulation	3		ISE 352: Fundamentals of Human-Machine Systems	4
ISE 361: Deterministic Models in IE	3		ISE 362: Stochastic Models in IE	3
Tech Elective	3			
TOTAL CREDIT HOURS	18		TOTAL CREDIT HOURS	17
Minimum Credit Hours Required for Graduation:				124
Hours Remaining in NC State Degree:				68