

# NC Community College Four-Year Pathway Plan

Schedule for Full-Time Students  
Pursuing AS Degree & transfer into Mechanical 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 4 summer courses at NC State after completion of the AS degree. Please see the NC State schedule of courses for more details.\*\*\***

NC COMMUNITY COLLEGE FIRST YEAR				
Fall Semester	Credit		Spring Semester	Credit
<b>ENG 111 - ENG 101: Academic Writing and Research</b>	3		<b>ENG 112 - GEP Requirement</b>	3
<b>MAT 271 – MA 141, Calculus I</b>	4		<b>MAT 272 – MA 241, Calculus II</b>	4
<b>CHM 151 – CH 101: General Chemistry I, CH 102: General Chemistry I Lab</b>	4		<b>DFT 170 – GC 120, Foundations of Graphics</b>	3
<b>ECO 251 – EC 201, Departmental Economics Requirement</b>	3		<b>PHY 251 – PY 205 &amp; PY 206</b>	4
<b>ACA 122 - Free Elective</b>	1		<b>EGR 150 – Departmental Substitution for E 101</b>	2
<b>TOTAL CREDIT HOURS</b>	<b>15</b>		<b>TOTAL CREDIT HOURS</b>	<b>16</b>

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

NC COMMUNITY COLLEGE SECOND YEAR				
Fall Semester	Credit		Spring Semester	Credit
<b>PHY 252 – PY 208 &amp; PY 209</b>	4		<b>PSY 150 – PSY 200, GEP Social Science</b>	3
<b>ENG 231 – ENG 265, GEP Humanities</b>	3		<b>EGR 220 – MAE 206, Engineering Statics</b>	3
<b>MAT 273 – MA 242, Calculus III</b>	4		<b>COM 231 – COM 110, GEP Humanities</b>	3
<b>CSC 134 – CSC 114, Departmental Substitute for CSC 113</b>	3		<b>MAT 285 – MA 341, Differential Equations</b>	3
<b>HUM 110 – STS 214, GEP Interdisciplinary Perspectives</b>	3		<b>TOTAL CREDIT HOURS</b>	<b>12</b>
<b>TOTAL CREDIT HOURS</b>	<b>17</b>			

**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 AA degree or BA 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 Mechanical Engineering (BS) (14CSCBS)

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

\*\*\*Students will need to complete MAE 201, MAE 208, MAE 214 & MAE 205 (10 hours total credit) at NC State summer school before matriculating in the Fall.\*\*\*

NC STATE JUNIOR YEAR				
Fall Semester	Credit		Spring Semester	Credit
E 115: Intro to Computing Environments	1		MAE 310: Heat Transfer Fundamentals	3
MAE 200: Intro MAE Design	1		ECE 331: Principles of Electrical Engineering	3
ENG 331: Communication for Engineering & Technology	3		MSE 200: Software Engineering	3
MAE 308: Fluid Dynamics	3		MAE 316: Ethics in Computing	3
MAE 315: Dynamics of Machines	3		xxE Tech Elective	3
MAE 306: Mech Engineering Lab I	1		<b>TOTAL CREDIT HOURS</b>	<b>15</b>
MAE 302: Engineering Thermodynamics II	3			
<b>TOTAL CREDIT HOURS</b>	<b>15</b>			
NC STATE SENIOR YEAR				
Fall Semester	Credit		Spring Semester	Credit
ST 370: Probability and Statistics for Engineers	3		MAE 416 Senior ME Design	4
MAE 435: Principles of Automatic Control	3		xxE Tech Elective	3
MAE 405: Controls Lab	1		xxE Tech Elective	3
ISE 311: Engineering Economic Analysis	3		Ethics	3
4xx ME Design Elective	3		<b>TOTAL CREDIT HOURS</b>	<b>13</b>
<b>TOTAL CREDIT HOURS</b>	<b>13</b>			
Minimum Credit Hours Required for Graduation:				126
Hours Remaining in NC State Degree:				66