

## NC Community College Four-Year Baccalaureate Degree Plan

Schedule for Full-Time Students Revised Fall 2018  
Pursuing AS Degree & transfer into **Mechanical 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
<b>TOTAL</b>	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
DFT 170	3	GC 120	Foundations of Graphics, Major Requirement
<b>TOTAL</b>	16 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
HUM 110	3	STS 214	GEP Interdisciplinary Perspectives, Dept. Recommendation
CSC 134	3	CS 114	Departmental Substitution for CSC 113
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
EGR 220	3	MAE 206	Engineering Statics, Major Requirement
COM 231	3	COM 110	Public Speaking, GEP Humanities (may choose other appropriate UGETC Humanities or Fine Arts)
PSY 150	3	PSY 200	PSY 200, GEP Social Science (may choose other appropriate UGETC Social Science)
TOTAL	12 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](mailto:engineering@ncsu.edu) for additional requirements and recommendations. Requirements subject to change and meeting recommendations does not guarantee admission to program.

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

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# NC STATE UNIVERSITY

## Schedule of Courses for the Mechanical Engineering (BS) (14MEBS) Curriculum for Fall 2018

Junior Fall		Junior Spring	
MAE 201: Thermodynamics	3 hours	MAE 214: Solid Mechanics	3 hours
MAE 208: Dynamics	3 hours	MAE 305: ME Lab I	1 hour
E 115: Intro Computing Environments	1 hour	MAE 308: Fluid Mechanics	3 hours
MAE 200: Intro ME Design	1 hours	MAE 315: Dynamics of Machines	3 hours
ST 370: Statistics/Probability for Engr.	3 hours	MAE 310: Heat Transfer Fundamentals	3 hours
ENG 331: Comm for Engr./Tech	3 hours	MAE 302: Thermodynamics II	3 hours
Ethics*	3 hours		
<b>Total Hours</b>	<b>17 hours</b>	<b>Total hours</b>	<b>16 Hours</b>

Senior Fall		Senior Spring	
MAE 316: Strength of Mech. Comp	3 hours	MAE 416: ME Senior Design	4 hours
ECE 331: Principles of Electrical Engr.	3 hours	Tech Elective	3 hours
MAE 306: ME Lab II	1 hour	Tech Elective	3 hours
MSE 200: Mech Prop Engr Materials	3 hours	Tech Elective	3 hours
MAE 435: Principles of Auto Control	3 hours	ISE 311: Engr Economic Analysis	3 hours
MAE 405: Controls Lab	1 hour		
MAE 4xx Elective	3 hours		
<b>Total Hours</b>	<b>17 hours</b>	<b>Total Hours</b>	<b>16 Hours</b>

**Total Hours, Associate of Science: 60**

**Total Hours, BS Computer Science: 66**

**\* Major curricula contains an Ethics verify requirement that is usually fulfilled by taking a GEP course. This is a major requirement and is not covered by the CAA. Please contact your NC State transfer advisor about meeting this requirement.**

