

**NC Community College Four-Year Baccalaureate Degree Plan**  
 Schedule for Full-Time Students Revised Fall 2018  
 Pursuing AS Degree & transfer into **Aerospace 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](#).

<b>Community College First Semester</b>			
<b>NC CC Course</b>	<b>Hours</b>	<b>NC State Equivalent</b>	<b>Notes</b>
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		

<b>Community College Second Semester</b>			
<b>NC CC Course</b>	<b>Hours</b>	<b>NC State Equivalent</b>	<b>Notes</b>
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 205 & PY 206	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 requirements does not guarantee admission to program.
- Program requires a 5<sup>th</sup> year at NC State and students who need full-time hours may wish to consider a minor or double major.**

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 \*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.
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# NC STATE UNIVERSITY

## Schedule of Courses for the Aerospace Engineering (BS) (14AEBS) Curriculum for Fall 2018

<b>Junior Fall</b>		<b>Junior Spring</b>	
MAE 250: Intro Aerospace Engineering	1 hour	MAE 252: Aerodynamics I	3 hours
MAE 208: Dynamics	3 hours	MAE 253: Expt Aero I	1 hour
E 115: Intro Computing Environments	1 hour	MAE 201: Thermodynamics I	3 hours
MAE 251: Aero Vehicle Performance	3 hours	Math Elective	3 hours
MAE 214: Solid Mechanics	3 hours		
<b>Total Hours</b>	<b>11 hours</b>	<b>Total hours</b>	<b>10 Hours</b>

<b>Senior Fall</b>		<b>Senior Spring</b>	
MAE 361: Dynamcis and Controls	3 hours	MAE 351: Aerodynamics II	3 hours
MAE 371: Aero Struc I	3 hours	MAE 352: Exp. Aerodynamics II	1 hours
MAE 372: Aero Vehicle Struc II Lab	1 hour	MAE Flight/Space Elective	3 hours
ENG 331: Comm for Engr/Tech	3 hours	MAE Structures Elective	3 hours
MAE Tech Elective	3 hours		
<b>Total Hours</b>	<b>13 hours</b>	<b>Total Hours</b>	<b>10 Hours</b>

<b>5<sup>th</sup> Year Fall</b>		<b>5<sup>th</sup> Year Spring</b>	
MAE 405: Controls Lab	1 hour	MAE 481: Aero Vehicle Design II	3 hours
MAE 435: Controls	3 hours	MAE Tech Elective	3 hours
MAE 451: Exp. Aerodynamics III	1 hour	MAE Tech Elective	3 hours
MAE 480: Aero Vehicle Design I	3 hours	Ethics*	3 hours
MAE Propulsion	3 hours		

Total Hours	11 hours	Total Hours	12 Hours
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**Total Hours, Associate of Science: 60**

**Total Hours, BS Computer Science: 67**

**\* 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.**