We appreciate your interest in pursuing a degree in engineering or computer science and are ready to help you accomplish your goal. Each year, more than 25 percent of the students receiving engineering degrees from NC State University began their education at another institution. You will find information on College of Engineering programs, curricula, student organizations, and much more by browsing the website at www.engr.ncsu.edu.

We would like to invite you, your families, and your friends to attend either the College of Engineering Open House held in the spring or the University Open House held in the fall. Both are wonderful opportunities to meet with faculty, staff, and students in the College of Engineering and to tour our teaching and research facilities.

Located in Raleigh, North Carolina, NC State University’s College of Engineering is a leading research, teaching and outreach engineering and computer science college with annual enrollment exceeding 10,000 students. NC State Engineering offers 18 bachelor’s, 21 master’s and 13 doctoral degree programs and also offers 16 online engineering master’s degrees.
THE BASICS

Make sure you’re on track to transfer to NC State. As you turn the following pages, you’ll find information on which courses are required, application deadlines, and GPA information for your intended area of study. We’re here to help with a successful transfer to the university.
WHAT YOU NEED

Since transfer admissions into the College are very competitive, meeting the eligibility requirements only guarantees that a transfer application may be considered; it does not guarantee admission. Students who are successful in admission often have grades well above these minimums.

For a comprehensive list of North Carolina community college course equivalencies, visit admissions.ncsu.edu/apply/credit-opportunities.

The NC State course number is written in red for your reference; North Carolina community college course numbers are written in bold. A course taken at another institution must be equivalent to the exact NC State course and completed with a grade of C- or better to transfer to the university. Core courses (chemistry, calculus and physics), also known as C wall courses, require at least a C. If NC State courses are taken, the overall NC State GPA must be at least a 2.0.

1. 30 credit hours or more of transferable college-level courses
2. 3.0 or higher cumulative GPA*

3. Minimum 4 credit hours of English composition, 4 credits ENG 101 (ENG 111 in combination with ENG 112, or ENG 114 to fulfill the English requirement (total ≥ 4 credits))

4. College chemistry course with lab, 4 credits CH 101 + 102 (CHM 135, 151 or 131 and 131 A)

5. Calculus I, 4 credits MA 141 (MA 271)

6. Calculus II, 4 credits MA 241 (MA 272)

7. Minimum 2.5 math GPA over last two math courses at Calculus I MA 141 level or higher (MAT 271)

8. Calculus-based Physics I with lab, 4 credits PY 205 and PY 206 (PHY 251)

*Please note that the requirements above are minimums for eligibility to transfer into the College of Engineering. Due to high demand; some programs are much more competitive and preference is given to higher GPAs. In some cases, applicants with 3.0 GPAs 3.5 may increase their competitiveness with strong performances in additional, technical coursework (e.g., Calculus II, Physics II, Engineering Statics, Chemistry II, Organic Chemistry, etc.).

WHAT’S NEXT?

STEP 1
Talk to your advisor and use the curricula to start the conversation.
oucc.dasa.ncsu.edu/engineering-coe

STEP 2
Plan ahead and apply early.
admissions.ncsu.edu/apply

STEP 3
If you have additional questions, email an NC State engineering advisor at engineering@ncsu.edu.

TRANSFER APPLICATION DEADLINE:
February 15th (April 15th notification)

INTERNATIONAL TRANSFER APPLICATION DEADLINE:
January 15th (rolling notification)
admissions.ncsu.edu/apply/dates-and-deadlines

NOTE: A pending decision for transfer applicants will require all official final transcripts by June 1 including grades for completed spring coursework. Those applicants will receive a decision by June 15. Summer coursework in-progress cannot be considered to meet admission requirements for the fall semester. The College of Engineering does not offer spring transfer admissions.
## WHAT ARE MY DEGREE OPTIONS?

<table>
<thead>
<tr>
<th>DEPARTMENT</th>
<th>DEGREE</th>
<th>CONCENTRATION (optional)</th>
<th>SPECIALIZATION</th>
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</thead>
<tbody>
<tr>
<td>Biological and Agricultural Engineering (BAE)</td>
<td>Biological Engineering (BE)</td>
<td>Biotechnology, Biotechnology, Biotechnology</td>
<td>Biotechnology, Biotechnology, Biotechnology</td>
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<tr>
<td>Biomedical Engineering (BME)</td>
<td>Biomedical Engineering (BME)</td>
<td>Biomedical Engineering, Biomedical Engineering, Biomedical Engineering</td>
<td>Biomedical Engineering, Biomedical Engineering, Biomedical Engineering</td>
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<tr>
<td>Chemical and Biomolecular Engineering (CBE)</td>
<td>Chemical Engineering (CHE)</td>
<td>Biotechnology, Biotechnology, Biotechnology, Biotechnology, Biotechnology, Biotechnology, Biotechnology</td>
<td>Biotechnology, Biotechnology, Biotechnology, Biotechnology, Biotechnology, Biotechnology, Biotechnology</td>
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<tr>
<td>Computer Science (CSC)</td>
<td>Computer Science (CSC)</td>
<td>Game Development</td>
<td>Game Development</td>
</tr>
<tr>
<td>Forest Biomaterials (FB)</td>
<td>Paper Science and Engineering (PSE)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Materials Science and Engineering (MSE)</td>
<td>Materials Science and Engineering (MSE)</td>
<td>Biomaterials</td>
<td>Biomaterials</td>
</tr>
<tr>
<td>Mechanical and Aerospace Engineering (MAE)</td>
<td>Aerospace Engineering (AE)</td>
<td>Mechanical Engineering (ME)</td>
<td>Mechanical Engineering (ME)</td>
</tr>
<tr>
<td>Nuclear Engineering (NE)</td>
<td>Nuclear Engineering (NE)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Textile Engineering, Chemistry, and Science (TECS)</td>
<td>Textile Engineering (TE)</td>
<td>Textile Engineering (TE)</td>
<td>Textile Engineering (TE)</td>
</tr>
</tbody>
</table>

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**PLANNING FOR THE FUTURE**

NC State offers 18 bachelor’s degree programs.
WHAT CAN I TAKE NOW?

Many courses at your college transfer to NC State. Explore your course options. The university also requires students to fulfill General Education Program requirements.
ENGINEERING DEGREE REQUIREMENTS

The North Carolina Community College System offers a number of courses that fulfill requirements within the NC State engineering curricula. Follow these steps to create your own personalized community college/NC State curriculum:

- Find your NC Community College Four-Year Pathway Plan for your intended major at ouce.dasa.ncsu.edu/engineering-coe
- Create your own personalized community college options are listed; additional options may be available at NC State. On lines marked with a red arrow (→), students choose one course.
- Use the comprehensive list below is a list of North Carolina community college courses commonly selected by transfer students to fulfill various degree requirements. Only North Carolina community college options are listed; additional options may be available at NC State. On lines marked with a red arrow (→), students choose one course.

Below is a list of North Carolina community college courses commonly selected by transfer students to fulfill various degree requirements. Only North Carolina community college options are listed; additional options may be available at NC State. On lines marked with a red arrow (→), students choose one course.

### AEROSPACE ENGINEERING
- DFT 170 or ECO 261 or EGR 150 or EGR 220 or MAT 273 or MAT 285
- PHY 252 or CSC 134

### BIOLOGICAL ENGINEERING
- ECO 251 or EGR 150 or EGR 220 or MAT 273 or MAT 285 or PHY 252
- BIO 111 or BIO 112
- CHM 138 or CHM 152, CHM 132 or CHM 251

### BIOLOGICAL ENGINEERING
- BIO 111 or CHM 152 or CHM 261 or ECO 251 or EGR 150 or EGR 220 or MAT 273 or MAT 285 or PHY 252

### CHEMICAL ENGINEERING
- ECO 251 or EGR 150 or MAT 273 or MAT 285 or PHY 252 or CHM 251
- CHM 136 or CHM 152

### CIVIL ENGINEERING
- DFT 170 or ECO 261 or EGR 150 or EGR 220 or MAT 273 or MAT 285 or PHY 252 or COM 231
- BIO 111, BIO 112, GEL 111 or GEL 120
- CSC 148, CSC 151, CSC 134 or CSC 136

### COMPUTER ENGINEERING
- ECO 251 or EGR 150 or MAT 273 or PHY 252 or COM 231

### COMPUTER SCIENCE
- ECO 251 or EGR 150 or MAT 273 or PHY 252 or CSC 151
- CHM 136, CHM 152, AST 111, AST 151, AST 152, BIO 110, BIO 111, BIO 112, BIO 120, BIO 145, BIO 168, BIO 243, GEL 111, GEL 113, GEL 120, or GEL 230

### CONSTRUCTION ENGINEERING AND MANAGEMENT - GENERAL
- GEL 111 or 120
- CSC 151 or CSC 134
- BIO 111, GEL 111, GEL 120, MAT 280, MAT 285, CHM 136, or CHM 152

### ELECTRICAL ENGINEERING
- ECO 251 or EGR 150 or MAT 273 or PHY 252 or COM 231

### ENVIRONMENTAL ENGINEERING
- BIO 111 or ECO 251 or EGR 150 or EGR 220 or MAT 273 or MAT 285 or PHY 252 or COM 231
- CHM 136 or CHM 152
- CSC 151 or CSC 134
- DFT 170 or COM 231

### INDUSTRIAL ENGINEERING
- ECO 251 or EGR 150 or EGR 220 or MAT 273 or PHY 252
- MAT 280 or MAT 285

### MATERIALS SCIENCE AND ENGINEERING
- CHM 132 or ECO 261 or EGR 150 or MAT 273 or MAT 285 or PHY 252
- CHM 136 or CHM 152

### MECHANICAL ENGINEERING
- DFT 170 or ECO 261 or EGR 150 or EGR 220 or MAT 273 or MAT 285 or PHY 252 or CSC 134

### MECHANICAL ENGINEERING SYSTEMS (HAWELock)
- DFT 170 or ECO 261 or EGR 150 or EGR 220 or MAT 273 or MAT 285 or PHY 252
- CSC 134 or CSC 136

### MECHATRONICS (UNC ASHEVILLE)
- ECO 251 or EGR 150 or EGR 220 or MAT 273 or PHY 252

### NUCLEAR ENGINEERING
- ECO 251 or EGR 150 or EGR 220 or MAT 273 or MAT 285 or PHY 252 or COM 120, COM 231, FL_111, FL_112, or FL_221

### PAPER SCIENCE AND ENGINEERING
- CHM 251 or CHM 252 or ECO 261 or EGR 150 or MAT 273 or MAT 285 or PHY 252 or CHM 136 or CHM 152

### TEXTILE ENGINEERING
- DFT 170 or ECO 261 or EGR 150 or EGR 220 or MAT 273 or MAT 285 or PHY 252 or CHM 136 or CHM 152 (only if pursuing TE-Chemical Processing)

For more information, visit admissions.ncsu.edu/apply/transfers/application-review
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AST 111</td>
<td>Descriptive Astronomy</td>
<td>CHM 251 (CH 221 + CH 222)</td>
</tr>
<tr>
<td>AST 151</td>
<td>General Astronomy I</td>
<td>CHM 252 (CH 223 + CH 224)</td>
</tr>
<tr>
<td>AST 152</td>
<td>General Astronomy II</td>
<td>COM 120</td>
</tr>
<tr>
<td>BIO 110</td>
<td>Principles of Biology</td>
<td>COM 231 (COM 110)*</td>
</tr>
<tr>
<td>BIO 111</td>
<td>General Biology I</td>
<td>CSC 134 (CSC 114)</td>
</tr>
<tr>
<td>BIO 112</td>
<td>General Biology II</td>
<td>CSC 151 (CSC 116)</td>
</tr>
<tr>
<td>BIO 120</td>
<td>Introductory Botany</td>
<td>DFT 170 (GC 120)</td>
</tr>
<tr>
<td>BIO 145</td>
<td>Ecology</td>
<td>ECO 251 (EC 201)*</td>
</tr>
<tr>
<td>BIO 168</td>
<td>Anatomy and Physiology I</td>
<td>EGR 150 (E 101)</td>
</tr>
<tr>
<td>BIO 243</td>
<td>Marine Biology</td>
<td>EGR 220 (MAE 206 or CE 214)</td>
</tr>
<tr>
<td>CHM 132</td>
<td>Organic/Biochemistry</td>
<td>ENG 111*, 112*, 113, 114 (ENG 101)</td>
</tr>
<tr>
<td>CHM 135</td>
<td>Survey of Chemistry I</td>
<td>ENG 111 in combination with ENG 112, 113, or 114 equals</td>
</tr>
<tr>
<td>CHM 136</td>
<td>Survey of Chemistry II</td>
<td>ENG 101, Academic Writing and Research. ENG 111 and ENG 112 are UGETC courses</td>
</tr>
<tr>
<td>CHM 151</td>
<td>General Chemistry I</td>
<td>FL_111, 112, 221</td>
</tr>
<tr>
<td>CHM 152</td>
<td>General Chemistry II</td>
<td>GEL 111 (MEA 101 + MEA 110)*</td>
</tr>
<tr>
<td>BIO 145</td>
<td>Ecology</td>
<td>GEL 120 (MEA 101 + MEA 110)</td>
</tr>
<tr>
<td>BIO 168</td>
<td>Anatomy and Physiology I</td>
<td>GEL 230 (MEA 300)</td>
</tr>
<tr>
<td>BIO 243</td>
<td>Marine Biology</td>
<td>MAT 271 (MA 141)*</td>
</tr>
<tr>
<td>CHM 132</td>
<td>Organic/Biochemistry</td>
<td>MAT 272 (MA 241)</td>
</tr>
<tr>
<td>CHM 135</td>
<td>Survey of Chemistry I</td>
<td>MAT 273 (MA 242)</td>
</tr>
<tr>
<td>CHM 136</td>
<td>Survey of Chemistry II</td>
<td>MAT 280 (MA 305)</td>
</tr>
<tr>
<td>CHM 133</td>
<td>Survey of Chemistry II</td>
<td>MAT 285 (MA 341)</td>
</tr>
<tr>
<td>CHM 151</td>
<td>General Chemistry I</td>
<td>PHY 251 (PY 205 + PY 206)*</td>
</tr>
<tr>
<td>CHM 152</td>
<td>General Chemistry II</td>
<td>PHY 252 (PY 208 + PY 209)*</td>
</tr>
</tbody>
</table>

*Universal General Education Transfer Component (UGETC) courses (see FAQs)
NC STATE UNIVERSITY REQUIREMENTS

Each NC State student must complete the General Education Program (GEP) requirements. These courses are designed to offer graduates the opportunity to experience diverse and integrative disciplinary perspectives. GEP courses enhance intellectual engagement and prepare students for lifelong learning and the demands of professional careers.

NC State’s GEP is divided into several categories. However, within engineering degrees, courses within certain categories will already be selected. When College of Engineering faculty/staff refer to “GEP courses,” they are referring to the sub-section of the GEP wherein engineering students have choices — a total of seven courses, labeled on the following page.

Along with those seven courses, engineering students must also fulfill two corequisites — US Diversity (USD) and Global Knowledge (GK). The corequisites can be fulfilled by taking courses within the broad GEP categories designated as USD or GK.

REMINDER: Throughout this section, keep in mind that NC State course numbers will be in red. North Carolina community college course numbers will be in bold. Also, please note that Universal General Education Transfer Component (UGETC) courses are denoted with an asterisk (see FAQs).

COLLEGE OF ENGINEERING GEP REQUIREMENTS

NC STATE GEP REQUIREMENTS

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REMINDER: Throughout this section, keep in mind that NC State course numbers will be in red. North Carolina community college course numbers will be in bold. Also, please note that Universal General Education Transfer Component (UGETC) courses are denoted with an asterisk (see FAQs).

2 Mathematical Sciences
   MA 141
   MA 241

2 Natural Sciences
   CH 101
   PY 205

First-Year Writing Program
   ENG 101

2 Health and Exercise Studies
   1. must be 100-level
   2.

2 Humanities
   1. different disciplines
   2.

2 Social Sciences
   1. Economics (EC 201, EC 205, ARE 201)
   2. discipline other than economics

2 Interdisciplinary Perspectives
   1.
   2.

1 Additional Breadth
Corequisites (not additional courses)
   US Diversity (USD)
   Global Knowledge (GK)
   (some engineering curricula have additional corequisites)

Engineering students use these courses to fulfill GEP requirements
GEP REQUIREMENTS - COURSE OPTIONS

2 Health and Exercise Sciences
1. PED 110, 115, 117, 120, 164, or 155

2 Humanities (different disciplines)
Select two from different disciplines:

2 Social Sciences (different disciplines)
Engineering students must take ECO 251 and one of the following:

2 Interdisciplinary Perspectives
- ECO 275, HUM 110, BUS 110

1 Additional Breadth
Select from humanities listings above, social science listings above, or ECO 252*, COM 231*, MUS 110*, MUS 112*, ART 114*, ART 119*, ART 116*, DRA 111, DRA 131

Selecting courses above designated as USD or GK also fulfills the respective corequisite. Please note that some engineering curricula also have an ethics corequisite. These ethics courses must be taken at NC State with the following exceptions: PHI 240 (humanities) will fulfill the ethics corequisite for MSE and HUM 110 (interdisciplinary perspectives) will fulfill the ethics corequisite for IE. Please visit admissions.ncsu.edu/apply/transfers/transfer-pathways for a complete list of course equivalencies.

NOTE: Universal General Education Transfer Component (UGETC) courses are denoted with an asterisk (see FAQs).
1. Does meeting the transfer requirements guarantee admission into the College of Engineering?
No. Admission to the College of Engineering is very competitive. The transfer requirements should be viewed as the minimum standard by which an applicant becomes eligible for review. Prospective students should always try to achieve the highest possible GPA to be as competitive as possible in the admissions process.

2. As a transfer applicant, do I need to take the ACT or SAT?
No. ACT/SAT scores are not required nor are they considered for transfer applicants.

3. How is my transfer GPA calculated?
College-level work must be completed with a C- or better to be considered for transfer credit. Work completed in technical programs is not considered for transfer credit or GPA calculation. The Office of Admissions at NC State will calculate a transfer GPA comprised of all transferable courses attempted, neglecting +/- modifiers (ex. B credit awarded instead of B- credit) in the calculations. Courses repeated at previous institutions are calculated with the original grades earned. The Office of Admissions at NC State will exclude the two lowest grades below a C when calculating the overall transfer GPA from all colleges attended outside of NC State. Please note that +/- modifiers remain on the student record. While C- grades are sufficient for NC State transfer credit, keep in mind that C- grades may not be sufficient to fulfill certain engineering degree requirements.

4. Can AP/IB credit be used to satisfy the 30 credit hour minimum requirement to be eligible for transfer?
No. Only courses taken at another institution will contribute to the 30 credit hour minimum required for eligibility to transfer.
FREQUENTLY ASKED QUESTIONS
Transfer Credit

1. Can I receive AP/IB credit as a transfer student? Yes. All AP or IB scores should be sent directly from the testing agency and, if admitted, NC State credit will be awarded according to the charts provided at admissions.ncsu.edu/apply/credit-opportunities.

2. Does work experience or military experience count as transfer credit? No. Neither work experience nor military experience counts toward transfer credits.

3. I have coursework outside the North Carolina Community College System. How will it transfer? The Office of Admissions maintains a transfer equivalency database where students may map their previous coursework over to NC State course numbers: www.acs.ncsu.edu/php/transfer. Previous coursework not listed in the database can be evaluated upon request after admission.

4. Can I transfer credit for E 115? No. This course must be taken at NC State since it is an introduction to our computing and networking system.

5. Can I transfer credit for E 101? While transfer credit for E 101 is not required for admission, EGR 150 from the North Carolina Community College System can be used to fulfill the E 101 engineering degree requirement for graduation.

6. How long will I be at NC State? Each engineering program is comprised of a critical path of engineering courses. The prerequisite structure for these courses and semester-specific course availability determine the length of stay at NC State.

7. Can I transfer credit for E 102? Yes. While transfer credit for E 102 is not required for admission, two hours of transfer credit that counts as an interdisciplinary perspective can be used to meet this requirement.

FREQUENTLY ASKED QUESTIONS
Attending NC State as a Non-Degree Student

1. Can I start at NC State before officially transferring into an engineering program? NC State offers a non-degree studies (NDS) program (www.ncsu.edu/nds). NDS students are limited to two courses per semester and enrollment is not guaranteed; only if space remains in classes are NDS students permitted to enroll, pending class and course permissions/restrictions.

2. Should I attend NC State as a non-degree studies (NDS) student? There are advantages and disadvantages. An advantage might be an opportunity to take an engineering course that serves as a prerequisite for a number of other engineering courses (ex. a student who is able to enroll in CHE 205 as an NDS student would meet the prerequisite to enroll in CHE 225 the following semester... If accepted as a degree-seeking chemical engineering student for the fall, this strategy would enable the student to finish out the chemical engineering degree over the following four semesters as a degree-seeking student.

If this student was not able to acquire CHE 205 and CHE 225 prior to becoming a degree-seeking chemical engineering student, the student would stay at NC State for six semesters as a degree-seeking student. A disadvantage of taking courses at NC State as an NDS student is that this would be starting a brand new GPA that is highly visible to engineering departments. It is not unusual for some older transfer students to have some lower grades on their academic record. Hopefully, these grades are overshadowed by a stronger recent performance (at least so much so that the transfer GPA is greater than 3.0). However, should a prospective transfer student stumble in an NC State course while taking it as an NDS student, it is highly unlikely that there would be enough NDS coursework to overshadow the poor grade. All caution should be taken when choosing to enroll as an NDS student. Please see the NDS web page for details on enrolling and NDS policies.
FREQUENTLY ASKED QUESTIONS

Comprehensive Articulation Agreement

1. What is a UGETC course?
Universal General Education Transfer Component (UGETC) courses are courses offered at every North Carolina community college that are also accepted as transfer credit at every UNC system institution. The courses listed in this guide are all transferrable to NC State, but no guarantee can be made that they are transferrable to other institutions. UGETC courses are marked to aid you in planning should you consider other UNC system institutions.

2. Should I finish my Associate in Arts or Associate in Science degree?
Each prospective transfer student should make a choice based on their own situation. The advantage of completing an Associate in Arts (AA) or Associate in Science (AS) at a North Carolina community college is that NC State will award credit as described by the Comprehensive Articulation Agreement (CAA). Specifically, credit is awarded for all General Education Program (GEP) courses, regardless of how / if the transferred coursework fills the specific NC State requirements (ex. humanities, social sciences, etc.). Completing GEP coursework is unlikely to reduce the overall time spent at NC State; see FAQ: How long will I be at NC State? Also, it is important to note that while NC State GEP requirements may be considered complete, engineering degree requirements still remain (ex. NC State requires that all graduates have two social sciences. The College of Engineering requires that all graduates have economic (ECO 251, at a North Carolina community college). Therefore, one of the social sciences must be economics for engineering students). Students transferring prior to completing an AA/AS may be eligible to earn their degree post-transfer through the reverse transfer program: www.northcarolina.edu/reversetransfer.

Lastly, please be aware that eligibility for the prestigious Goodnight Scholarship Program for Transfers requires that a student receives an Associates of Arts, Science, or Engineering from a North Carolina Community College prior to the start of the Fall semester of enrollment. Please visit goodnight.ncsu.edu/apply/transfer for more information regarding the Goodnight Scholarship Program.

3. What is the fine print of the Comprehensive Articulation Agreement (CAA)?
No more than 14 credit hours of the AA/AS from the North Carolina community college system may originate outside of the North Carolina Community College System, the UNC System, or AP/IB credit.

4. Will all my GEP requirements be complete through the AE degree?
The Associates of Engineering (AE) degree is not covered under the Comprehensive Articulation Agreement (CAA) and qualified transfer students receiving an AE are not guaranteed fulfillment of all General Education Program (GEP) courses upon admission to the NC State University College of Engineering. AE transfer students may need to complete additional credit hours at NC State in order to fulfill GEP requirements. While it does not guarantee complete GEP fulfillment, the AE is a viable alternative to the AS: Pre-Major in Engineering Degree as its curriculum standard allows the student to complete more specific engineering requirements before matriculating at NC State. All UGETC courses will transfer with course equivalency to fulfill GEP requirements for the BS in engineering.

AE students may reduce the number of remaining GEP credit hours through deliberate course selection or enrolling in extra credit hours during their community college career. Please consult with both your advisor and the NC State College of Engineering Transfer Resources Page to plan appropriately.
To learn more, visit [www.engr.ncsu.edu/undergrad/crricula](http://www.engr.ncsu.edu/undergrad/crricula).