

Scotland High School of Engineering
Pre-Engineering Program
4-Year University Preparation Program

Freshman Year

1. English I
2. World History
3. Earth/Environmental Science; or Physical Science(H)
4. Algebra II (Honors)

5. Health & P.E.
6. Elective
7. Conceptual Physics
8. Geometry (Honors)

Sophomore Year

1. English II
 2. Civics/Economics
 3. Drafting I (Mechanical Drafting)
 4. Health & P.E.

 5. Physics
 6. Introduction to Engineering Design (IED)
 7. Advanced Functions and Modeling
 8. Spanish I
- +Job Shadowing Opportunities available

Junior Year

1. English III; or AP Language
 2. U.S. History (Honors)
 3. MEC 250 Statics & Strength of Materials (Engineering Course, RCC)
 4. Spanish II

 5. Pre-Calculus
 6. Engineering Design II
 7. Spanish III (Honors)
 8. Chemistry; or AP Chemistry
- +Mentorship/Internship/Advanced Studies available

Senior Year

1. English IV
 2. MEC 180 Engineering Materials (Engineering Course, RCC)
 3. HIS 132 American History II (College Transfer, RCC)
 4. Calculus

 5. Spanish IV (Honors); or AP Spanish
 6. ENG 111 Expository Writing (College Transfer, RCC)
 7. MAT 171 Pre-Calculus Algebra (College Transfer, RCC)
 8. Biology
- + Apprenticeship or Co-operative learning experiences available

Additional Graduation requirements for the Scotland High School of Engineering:

Students must score at Proficiency Level III on Algebra I, Biology, English 9, Civics, and US History End of Course Exams and successful completion of a Senior Project (First time 9th graders of 2006-2007)

Please schedule an appointment with our Guidance Counselor, Mrs. Stubbs, regarding any decision pertaining to requirements for individual student's post-secondary plans.

4 credits in Mathematics are required for the 16 institutions of the UNC University system

-Dual enrollment and Articulation agreements with RCC are available and require at least a "B" in the course; meeting the required score on the RCC admissions' test, and the student must enroll in the articulated program at RCC.

General College transfer courses are also available through RCC; St. Andrews College, and UNC-Pembroke as applicable.

Specific student scheduling may be superceded by Federal Guidelines and Statutes where applicable.