## Smithfield High School

# Engineering Technology Academy CTE Pathway Program to close at the conclusion of the 2022/2023 school year.

Designed to give students a robust experience in design, engineering and fabrication, the Engineering Technology Academy Pathway provides hands-on experience with 3D design, advanced engineering techniques, and the skills necessary to bring the theoretical to life. The program is designed to not only teach course specifics, but also expose students to the wide array of possibilities an engineering education offers. Engineering students enjoy smaller class size, increased instructional attention and a personalized environment that makes focusing on the skills required to succeed in engineering easier to obtain and the pathway more rewarding. **Learn more and apply at** http://cte.smithfield-ps.org/

SHS Graduation Requirements - Visit www.shsri.org for additional details

- 22 Credits Required for Graduation
  - 4 credits in English
  - 4 credits in Math
  - o 3 credits in Science
  - 3 credits in Social Studies
  - 2 credits in PE/Health
  - o 0.5 credit in Fine Arts
  - o 0.5 STEAM
  - 0.5 Personal Finance
  - 4.5 Electives

- Portfolio & Senior Demonstration
- State Assessment
- Career Exploration
- Individual Learning Plan
- Technology Proficiency
- Steam Exploration

### Engineering Technology Academy Required Courses

- 8519 Technology Survey .5 (Grade 9-12)
  - Tech Survey <u>cannot</u> be taken simultaneously with any other program course
- 8504 CADD I / Mechanical Design 1.0 (Grade 10-12)
  - Prerequisite: Successful completion of Tech Survey
  - Qualifies for credit in the advanced tech-program at the New England Institute of Technology
- 8510 CADD II / Architectural Design Honors/EEP 1.0 (Grade 11-12)
  - Prerequisite: Successful completion of CADD I
  - Qualifies for credit in the advanced tech-program at the New England Institute of Technology
- 8509 Construction Honors/EEP 1.0 (Grade 11-12)
  - Prerequisite: Successful completion of Technology Survey
  - Qualifies for credit at Rhode Island College TECH 327
- 2403 Pre-Calculus
- 3303 Physics I
- 3204 Chemistry I

#### Additional Engineering Technology Academy Requirements

- OSHA 10 Construction Safety training
- 80 hour internship or 2 years of the ACE Mentoring program
- Precision Exam Industry Credential Assessment (taken in class)

Students have a great deal of flexibility regarding levels, course options, electives, and alternative methods of demonstrating proficiency. Visit our <u>website</u> or schedule an appointment with a school counselor for more information. *The chart below represents a typical four year course of study.* 

	Grade 9	Grade 10	Grade 11	Grade 12
English	English 9	American Lit	English 11 or AP Literature	Literature & Drama EEP or English 12 Electives
Math	Algebra or Geometry	Algebra II or Geometry	Pre-Calculus, Algebra II, or Modeling Functions	Pre-Calculus, Calculus, Probability & Stats, or math electives
Science	Physical Science	Biology	Chemistry or Technical Science	Physics
Social Studies	Civics	US History	Social Studies Elective	
CTE Required Courses	Technology Survey (Introduction To Engineering)	Mechanical Design/CADD I	Construction EEP	Architectural Design/CADD II EEP
Electives	PE/Art	PE/Personal Finance	PE/Elective	PE/Elective
Electives	World Language	World Language	World Language	World Language

#### **Engineering Technology Academy Student Outcomes**

- OSHA 10 Card
- 3 credits Rhode Island College TECH 216 Computer-Aided Design (CADD II)
- CADD I and CADD II qualify for credit in the advanced tech-program at the New England Institute of Technology
- 3 credits to Rhode Island College TECH 327 Construction System (Construction EEP)
- An opportunity to sit for the Certified SolidWorks Associate certificate exam upon program completion.