Our Mission:

The mission of the Academy of Engineering at American High School is to prepare students to enter into one of the sixteen fields of engineering.

Problem solving and technological proficiency will serve as the foundation for developing and presenting creative innovations.

Students will receive comprehensive instruction to prepare them to take advantage of any higher education opportunities that present themselves.

The projects, competitions, industry certifications, internships, speakers, demonstrations, and course material will provide the skills for collegiate and career entry-level positions.

Students will join their predecessors in competitions with the Miami-Dade SECME Olympiad, the FIRST Robotics Competition, the TEN80 Racecar contest, the FIU Engineering Gala, the UM Build It Competition, the Society of Women Engineers Girls Day, the Construction Career Day, the VEX Robotics Competition, and the Miami STEM Olympiad.

American Senior High School

HOME OF THE PATRIOTS

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MIAMI-DADE COUNTY PUBLIC SCHOOLS — giving our students the world

CAREER TECHNICAL EDUCATION

NAF

FUND II FOUNDATION

Anti-Discrimination/Harassment (Students) – Board Policy 5517 and 5517.02 M-DCPS does not discriminate on the basis of sex, race, color, ethnic or national origin, religion, marital status, disability, age, political beliefs, sexual orientation, gender, gender identification, social and family background, linguistic preference, pregnancy, or any other basis prohibited by law in its educational programs, services or activities or in its hiring or employment practices. Please refer to School Board Policies 5517 – Anti-Discrimination/ Harassment (Students) and 5517.02 – Discrimination/Harassment Complaint Procedures for Students for more information.
Questions, complaints or requests for additional information regarding discrimination or harassment may be sent to: Executive Director, Civil Rights Compliance Office,
155 NE 15 Street, Suite P-104E, Miami, Florida 33132;
PH: 305-995-1580 or e-mail address: crc@dadeschools.net.

AMERICAN SENIOR HIGH SCHOOL

ENGINEERING ACADEMY FOR STUDENT EXCELLENCE

ASHS

ENGINEERING ACADEMY FOR STUDENT EXCELLENCE

PATRIOTS

AMERICAN SENIOR HIGH SCHOOL

ENGINEERING ACADEMY FOR STUDENT EXCELLENCE

The Academy of Engineering at American Senior High School utilizes the Project Lead the Way Curriculum with nationally certified instructors to facilitate a pre-engineering platform that provides multiple industry certification and college credits.

9th Grade	Introduction to Engineering Design (Autodesk Inventor certification)
10th Grade	Principles of Engineering
11th Grade	Digital Electronics (Florida Engineering certification)
12th Grade	Engineering Design & Development

PROJECT LEAD THE WAY PLTW

SECME

The Academy of Engineering uses the national curriculum Project Lead the Way to emphasis how skills are applied to the workplace. The curriculum is based on work-based learning, to provide students with hands-on projects that prepare them for higher education opportunities. Participation in SECME Olympiad, UM Build It, Youth Fair, FIRST Robotics, TEN80 Racecar, and VEX Robotics connects skills to real world problems.

Patriot Partners:

- US Naval Academy
- Florida Department of Transportation
- Florida International University
- Miami Dade College

Engineering a Bright Future:

- Completion of academy courses qualifies for Bright Futures Scholarships.
- Capstone projects include STEM-guitar and flight simulations!
- 3-D printing incorporation into CAD training coming soon.
- Annual college tours include UM, FSU, UF, FAMU, NSU, FIU, USF, FGCU, FAU, & STU.
- Students can earn college credits.
- Paid internship opportunities!

ENGINEERING ACADEMY FOR STUDENT EXCELLENCE

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