

Blanche Ely High School

Pre-Engineering 2017- 2018

Academic Plan	FRESHMAN	SOPHOMORE	JUNIOR	SENIOR	SPECIAL REQUIREMENTS
ACADEMY OF INFORMATION TECHNOLOGY (NAF)	<ul style="list-style-type: none"> ✓ English I H ✓ Math ✓ *Research I (SECME 1) ✓ Biology H ✓ World History H ✓ HOPE ✓ AOIT-Programming Essentials ✓ Microsoft Office Specialist (MOS) 	<ul style="list-style-type: none"> ✓ English II H ✓ Math ✓ Chemistry 1 H ✓ World Language I ✓ *Research 3 (Robotics) ✓ Fine Art ✓ AOIT – Database Essentials ✓ Adobe Photoshop CC 	<ul style="list-style-type: none"> ✓ English III H /AP/DE ✓ Math ✓ *Research 11 (SECME III) ✓ * Comp Program DE-FIU ✓ World Language II ✓ American History H/AP ✓ AOIT – Web Dev Technologies ✓ Adobe Dreamweaver 	<ul style="list-style-type: none"> ✓ English IV H /AP/DE ✓ Math (H/AP) ✓ Physics I H ✓ American Gov/Econ H/AP ✓ FIU Dual Enrollment ✓ **AP Computer Programming ✓ AOIT - Comp NW Fund ✓ Adobe Flash 	<ul style="list-style-type: none"> • Pass SAT, ACT or PERT exam for Dual Enrollment • Maintain C ≥ in math and science • Recommend honors in core courses • Join SECME or Robotics • Internship • Dual Enrollment (Florida International University) • Industry Certifications
PRE- ENGINEERING (PATHWAYS TO ENGINEERING)	<ul style="list-style-type: none"> ✓ English I H ✓ Math ✓ Biology H ✓ World History H ✓ *Intro to Info Tech ✓ **Fine Art or HOPE ✓ Intro to Engineering ✓ Microsoft Office Specialist (MOS) 	<ul style="list-style-type: none"> ✓ English II H ✓ Math ✓ Chemistry H ✓ Psychology/Elective ✓ Digital Electronics ✓ World Language ✓ Principles of Engineering ✓ Solid Works Certification 	<ul style="list-style-type: none"> ✓ English III H/AP/DE ✓ Math ✓ * Physics H ✓ American History H/AP ✓ Found of Comp. Programming ✓ World Language ✓ Aerospace Tech or Computer Info Manufacturing 	<ul style="list-style-type: none"> ✓ English IV H AP/DE ✓ Math (H/AP) ✓ Physics H/AP/ (DE) ✓ American Govt/Econ. H ✓ FIU – Intro to Programming ✓ Elective ✓ Engineering Design & Development ✓ Dual Enrollment 	<ul style="list-style-type: none"> • Pass SAT, ACT or PERT for Dual Enrollment • Maintain C ≥ in core courses • Recommend honors in core courses • Join SECME or Robotics • Internship • Dual Enrollment (Broward College) • Industry Certifications • Local Competitions • ACE Mentors
Aeronautic / Aerospace Engineering	<ul style="list-style-type: none"> ✓ English I H ✓ Math ✓ Biology H ✓ Intro to Info Tech ✓ World History H ✓ **Fine Art or HOPE ✓ Intro to Engineering or Principals of Engineering ✓ Microsoft Office Specialist (MOS) 	<ul style="list-style-type: none"> ✓ English I H ✓ Math ✓ Chemistry H ✓ World Language ✓ Psychology H ✓ **Fine Art or HOPE ✓ Aerospace Tech 	<ul style="list-style-type: none"> ✓ English I H ✓ Math ✓ Physics H ✓ World Language ✓ US History H ✓ **Fine Art ✓ Intro to Aeronautics / Drone ✓ Private Pilot's License or Drone Certification 	<ul style="list-style-type: none"> ✓ English I H ✓ Math ✓ AP Physics ✓ Engineering Des & Dev. ✓ Economics / Am. Gov't H ✓ **Fine Art ✓ Dual Enrollment Class 	<ul style="list-style-type: none"> • Pass SAT, ACT or PERT for Dual Enrollment • Maintain C ≥ in core courses • Recommend honors in core courses • Dual Enrollment (Embry Riddle Aeronautical University) • Apply for Broward County Aviation Summer Internship • Job Shadow / Company Tours at Pompano Aviation • Industry Certifications • Local and Statewide Competitions

Each Engineering Magnet Student will be provided opportunities to work in a field of interest the summer before their senior year. Students may take approved dual enrollment courses to meet graduation requirements and earn college credits in the junior and senior years.

Digital Learning Act: Effective June 2011, all students entering 9th grade in 2011 and thereafter are required to complete at least one online course to graduate.

***We Recommend students take Reading for College Success, Critical Thinking and Study Skills, or HOPE before senior year.