


Career Cluster: Health Science		CTE Program: Secondary: Academy of Veterinary and Biomedical Sciences Beachside High School, St. Johns County School District							
Career Cluster Pathway: Biomedical Sciences		Industry Certification: <i>BACE Biotility</i> Secondary:							
 ACADEMY OF Veterinary and Biomedical Sciences BEACHSIDE HIGH SCHOOL		16 CORE CURRICULUM CREDITS				8 ADDITIONAL CREDITS			
		ENGLISH 4 credits	MATH 4 credits	SCIENCE 3 credits, 2 with lab	SOCIAL STUDIES 3 credits	OTHER REQUIRED COURSES FINE ARTS (1 credit) PHYSICAL EDUCATION (1 credit)	CAREER AND TECHNICAL EDUCATION COURSES	RECOMMENDED ELECTIVES (ALIGNED WITH STATE COLLEGE & UNIVERSITY SYSTEM PROGRAMS)	
HIGH SCHOOL		<ul style="list-style-type: none"> Students are encouraged to use mycareershines.org to explore careers and postsecondary options. Students are also encouraged to participate in dual enrollment courses which may be used to satisfy high school graduation or Bright Futures Gold Seal Vocational Scholars course requirements. One course within the 24 credit program must be an online course. Cumulative GPA of 2.0 on a 4.0 scale for 24 credit program 							
		9th	English 1, English Honors 1	Algebra I, Algebra 1 Honors, Geometry Honors, Algebra 2 Honors	Environmental Science, Physical Science Honors, Biology 1 Honors	AP Human Geography, World Cultural Geography or Elective	HOPE – Health Opportunities through Physical Education	Principles of Biomedical Sciences	Spanish, ASL
		10th	English 2, English Honors 2	Geometry, Geometry Honors, Pre-Calculus Honors	Biology, Biology Honors, Chemistry, Chemistry Honors, Physics	AP World History, World History, World History Honors	2D Art, 3D Art, Digital Media	Human Body Systems	Spanish, ASL
		11th	English 3, English Honors 3, AP Language	Geometry, Algebra 2, Algebra 2 Honors, AP Calculus AB, AP Statistics	Marine Science, Marine Science Honors, Anatomy and Physiology Honors, Chemistry, Chemistry Honors, Physics Honors	AP US History, US History Honors, US History	Elective	Medical Interventions	Spanish, ASL
		12th	English 4, English Honors 4, DE Freshman English, AP Literature	Probability and Statistics, AP Statistics, AP Calculus BC	AP Biology, AP Chemistry, AP Environmental Science, AP Physics	American Government .5 + Economics .5, AP Macro/Micro Econ, AP US Fed Gov't	Elective	Biomedical Innovation Duel Enrollment	Spanish, ASL
POSTSECONDARY		Based on the Career Cluster of interest and identified career and technical education program, the following postsecondary options are available.							
		TECHNICAL COLLEGE PROGRAM(S)	STATE COLLEGE PROGRAM(S)			UNIVERSITY PROGRAM(S)			
		N/A	St. Johns River State College, St. Augustine: College Credit Certificates (CCC): Engineering Technology Support Specialist, Mechatronics, Robotics and Simulation Technician Associate in Science (A.S.) Degree in Engineering Technology			University of North Florida, Jacksonville: College of Computing, Engineering & Construction – Mechanical Engineering (B.S.), MS in Mechanical Engineering Embry-Riddle Aeronautical University, Daytona: Mechanical Engineering (B.S.), MS in Mechanical Engineering, Ph.D. in Mechanical Engineering, MS in Unmanned and Autonomous Systems Engineer, MS in Unmanned Systems			
CAREER		Sample Career Specialties from the Demand Occupations List							

	<p>Electrical and Electronics Repairers, Commercial and Industrial Equipment, Electrical and Electronic Equipment Assemblers, Electromechanical Equipment Assemblers, Aerospace Engineering and Operations Technicians</p>	<p>First-line Supervisors of Production and Operating Workers, Engineering Technology Support Specialist, Robotics and Simulation Technician</p>	<p>Automation Engineer, Autonomous Vehicle, Design Engineer, Design Engineer, Factory Automations Engineer, Research Engineer Robotic Systems Engineer, Mechanical Engineer, Unmanned and Autonomous Systems Engineer</p>
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Career and Technical Student Association

HOSA

Internship/Work Experience Recommendations

Career Academy students may apply for summer internships after their junior year.

Program of Study Graduation Requirements: <http://www.fldoe.org/academics/graduation-requirements>