




**Game/Simulation/Animation Programming**  
 Career and Technical Education  
*Your Future Starts Here – Unlock Your Potential!*  
 2023-24 SY



<b>Career Cluster:</b> Information Technology		<b>CTE Program:</b> Secondary Game/Simulation/Animation Programming (8208300) YHS Postsecondary: FSCJ, UNF, JU, UF, FSU						
<b>Career Cluster Pathway:</b> Coding, Programming, and Designer		<b>Industry Certification: Secondary:</b> Programmer, Artist, Unity and Virtual Reality Developer						
	<b>16 CORE CURRICULUM CREDITS</b>					<b>8 ADDITIONAL CREDITS</b>		
	<b>ENGLISH</b> 4 credits	<b>MATH</b> 4 credits	<b>SCIENCE</b> 3 credits, 2 with lab	<b>SOCIAL STUDIES</b> 3 credits	<b>OTHER REQUIRED COURSES</b> <b>FINE ARTS</b> (1 credit) <b>PHYSICAL EDUCATION</b> (1 credit)	<b>CAREER AND TECHNICAL EDUCATION COURSES</b>	<b>RECOMMENDED ELECTIVES</b>	
<b>HIGH SCHOOL</b>	<ul style="list-style-type: none"> <li>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. The Bright Futures Gold Seal CAPE Scholars award requires at least 5 postsecondary credit hours through CAPE industry certifications. For further details, refer to the Bright Futures Student Handbook.</li> </ul>							
	<b>9<sup>th</sup></b>	English 1 or English 1 Honors	Algebra I (or Honors) or Geometry (or Honors)	Environmental Science or Biology (or Bio Honors)	AP Human Geography or Elective	HOPE – Health Opportunities through Physical Education	Game & Simulation Foundations (8208110) (PA)	Elective
	<b>10<sup>th</sup></b>	English 2 or English 2 Honors	Geometry or Algebra II (or Honors)	Biology, Chemistry, Physics, Anatomy (or Honors Level)	World History (or Honors or AP)	Fine or Practical Arts	Game & Simulation Design 8208120 (PA)	AP Computer Science Principles
	<b>11<sup>th</sup></b>	English 3 or English 3 Honors	Algebra II, Math for College Liberal Arts, Math for College Algebra, Pre-Calculus	Chemistry, Physics, Anatomy (or Honors Level)	US History or US History Honors or APUSH	Elective or World Language	Game & Simulation Programming 8208330 (Honors Credit)	Elective
	<b>12<sup>th</sup></b>	English 4 or English 4 Honors or AP Eng. Literature	Math for Data & Financial Literacy, Math for College Algebra, or AP Calculus	Marine Science, Earth/Space, Physics, AP Physics, AP Biology	American Government .5 + Economics .5 or AP Microeconomics and AP Government	Elective or World Language	Multi-User Game & Simulation Programming 8208340 (PA) (Honors Credit)	Elective
<b>POSTSECONDARY</b>	<b>Based on the Career Cluster of interest and identified career and technical education program, the following postsecondary options are available.</b>							
	<b>TECHNICAL CENTER PROGRAM(S)</b>		<b>COMMUNITY COLLEGE PROGRAM(S)</b>			<b>UNIVERSITY PROGRAM(S)</b>		
	<b>Florida State College at Jacksonville:</b> Technical Certificates in Network Enterprise Administration, Network Infrastructure, Network Support Technician, Digital Forensics, Information Technology Analysis, Information Technology Support Specialist		<b>Florida State College at Jacksonville:</b> Associate in Science Degrees in Computer Information Technology, IT Security, Network Systems Technology			<b>FSCJ-</b> Computer Systems Networking, Information Systems Technology <b>UNF, JU, UF, FSU, UCF</b> Numerous Information Technology and Program Designing degrees		
<b>CAREER</b>	<b>Sample Career Specialties – Careers from the Targeted Occupations List are in bold.</b>							
	Network Technician		Web Designer, Game Designer, Virtual Reality Designer, and more!			Professional Game Designer/Engineer; Virtual Reality Designer		
<b>Career and Technical Student Association or Suggested Extracurricular Activity</b>								
Future Business Leaders of America, Robotics Club, e-Sports								