




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



Career Cluster: Information Technology		CTE Program: Secondary Game/Simulation/Animation Programming (8208300) YHS Postsecondary: FSCJ, UNF, JU, UF, FSU						
Career Cluster Pathway: Coding, Programming, and Designer		Industry Certification: Secondary: Programmer, Artist, Unity and Virtual Reality Developer						
		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
HIGH SCHOOL	<ul style="list-style-type: none"> 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. 							
	9th	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
	10th	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
	11th	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
	12th	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
POSTSECONDARY	Based on the Career Cluster of interest and identified career and technical education program, the following postsecondary options are available.							
	TECHNICAL CENTER PROGRAM(S)		COMMUNITY COLLEGE PROGRAM(S)			UNIVERSITY PROGRAM(S)		
	Florida State College at Jacksonville: Technical Certificates in Network Enterprise Administration, Network Infrastructure, Network Support Technician, Digital Forensics, Information Technology Analysis, Information Technology Support Specialist		Florida State College at Jacksonville: Associate in Science Degrees in Computer Information Technology, IT Security, Network Systems Technology			FSCJ- Computer Systems Networking, Information Systems Technology UNF, JU, UF, FSU, UCF Numerous Information Technology and Program Designing degrees		
CAREER	Sample Career Specialties – Careers from the Targeted Occupations List are in bold.							
	Network Technician		Web Designer, Game Designer, Virtual Reality Designer, and more!			Professional Game Designer/Engineer; Virtual Reality Designer		
Career and Technical Student Association or Suggested Extracurricular Activity								
Future Business Leaders of America, Robotics Club, e-Sports								