

School: **Monte Vista High School**

Academy/Pathway: **ICT / Game Design**



Grossmont Union High School District

L e v e l	G r a d e	English Language Arts	Math	Social Studies	Science	Career Technical Education	Other Required Courses or Recommended Electives	Additional Pathway Information
S e c o n d a r y	9	English 1, 2	Integrated Math I	Geography	Science Y1	Game Design 3, 4 T851 / T852, UC-g	P.E. Y1 WorldLanguage 1, 2 Visual and Performing Arts Y1	Occupations Requiring Less Than a Baccalaureate Degree <ul style="list-style-type: none"> • Computer Support Specialist • Communications Technician • Computer Maintenance Technician • LAN (Local Area Network) Administrator • Network Systems & Data Communication Analysts • Programmer • Software Technician Technical Support Representative Occupations Requiring a Baccalaureate Degree <ul style="list-style-type: none"> • Software Developer / Programmer / Architect • Software/Systems Engineer • Systems Analyst / Developer • Business Analyst / Web Developer • Communications Engineer
	10	English 3, 4	Integrated Math II	World History	Science Y2	Game Design 3, 4 T851 / T852, UC-g Game Design 5, 6 T853 / T854, AR	P.E. Y2 WorldLanguage 1, 2 World Language 3, 4 Visual and Performing Arts Y1	
	11	English 5, 6	Integrated Math III	U.S. History	Science Elective	Game Design 3, 4 T851 / T852, UC-g Game Design 5, 6 T853 / T854, AR	P.E. Y2 WorldLanguage 1, 2 World Language 3, 4 Visual and Performing Arts Y1	
	12	English 7, 8	Math Elective	Am. Gov. / Econ.		Game Design 5, 6 T853 / T854, AR	P.E. Y2 World Language 3, 4 World Language 5, 6 Visual and Performing Arts Y1	
Key		Minimum UC a-g Entrance Requirement	Required by GUHSD for Graduation	Recommended for College Admissions	CTE Concentrator Course	CTE Capstone Course	CTE Meets UC a-g Entrance Requirements Articulated Course	Grossmont Community College Program Offerings: <ul style="list-style-type: none"> • Associates Degree (Gen Ed. required) in Computer Science Information Systems w/ an emphasis in: <ul style="list-style-type: none"> ◦ Computer Programming (28-30 Units) (See Left) ◦ Web Design (18-20 Units) ◦ Cybersecurity & Networking (25-26 Units)

The course sequence listed below is for illustration only. A student's actual course sequence may vary.

P o s t - S e c o n d a r y	13	CSIS 112 CIS 190 Windows Operating Systems	CSIS 113 CIS 191 Introduction to Linux	CSIS 119 CS 119 Introduction to Computer Programming	Select TWO of the following: CSIS 132 / CIS 211 Introduction to Web Development CSIS 133 / CIS 213 Intermediate Web Development CSIS 135 / CIS 215 Introduction to JavaScript Programming CSIS 165 Assembly Language and Machine Architecture CSIS 250 Introduction to Python Programming CSIS 276 / CIS 240 Introduction to SQL CSIS 290 Introduction to C# Programming CSIS 295 Android Application Development with Java		<ul style="list-style-type: none">• Certificate of Achievement in Computer Science Information Systems (no Gen. Ed. required)• Certificate of Proficiency (12 Units)<ul style="list-style-type: none">◦ Information Technology Technician◦ Network and Cybersecurity Technician
	14	CSIS 293 CS 182 Introduction to Java	CSIS 294 CS 282 Intermediate Java Programming	CSIS 296 CS 181 Introduction to C++ Programming	CSIS 297 CS 281 Intermediate C++ Programming	WBL Plan 22-23: <ul style="list-style-type: none">• Guest speakers• Virtual tours• Employability Certifications• Industry Tours LMI Highlights for Pathway 22-23: <ul style="list-style-type: none">• Average annual earnings are \$137,846;• 5% projected growth rate;• Over 60k people are employed in the industry sector.	Cuyamaca Community College Program Offerings: <ul style="list-style-type: none">• Associates Degree in Computer Information Science<ul style="list-style-type: none">◦ Networking, Security and System Administration◦ Web Development• Certificates of Specialization<ul style="list-style-type: none">◦ Cisco Certified Network Associate Certificate◦ Cisco Network Professional Certificate◦ Cyber Security Specialist Certificate◦ Computer Programming Certificate◦ Computer Support Technician Certificate◦ Web Design Certificate◦ Web Programming Certificate