San Dieguito Academy
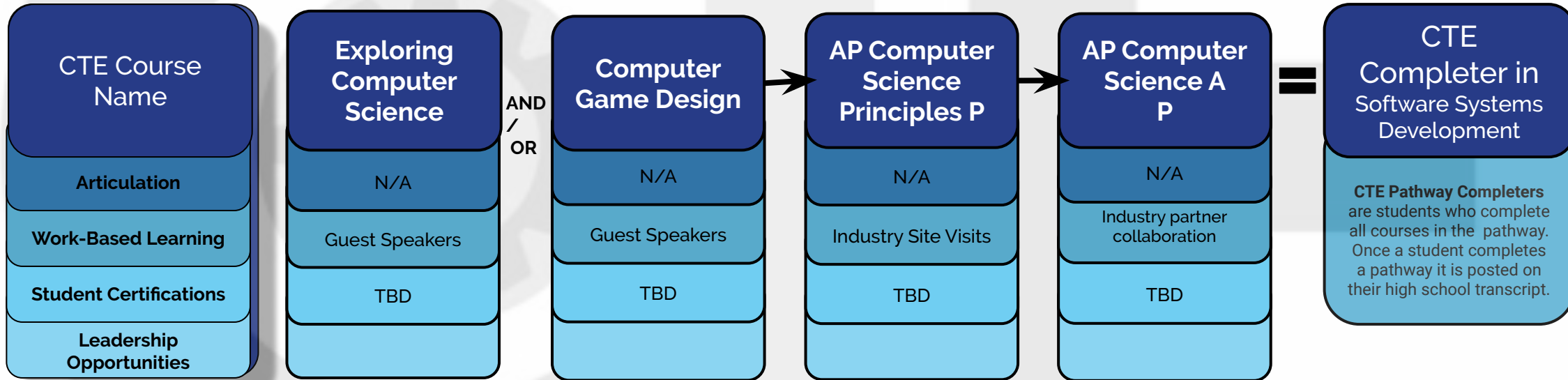# Software Systems Development Pathway

Students in the Software and Systems Development pathway prepare for careers related to computer science that involve the design, development, implementation, maintenance, and management of systems that rely on software programs to satisfy the operational needs of modern business organizations.

CTE Course Name	Exploring Computer Science		Computer Game Design	AP Computer Science Principles P	AP Computer Science A P	CTE Completer in Software Systems Development
Articulation	N/A	AND / OR	N/A	N/A	N/A	**CTE Pathway Completers** are students who complete all courses in the pathway. Once a student completes a pathway it is posted on their high school transcript.
Work-Based Learning	Guest Speakers		Guest Speakers	Industry Site Visits	Industry partner collaboration	
Student Certifications	TBD		TBD	TBD	TBD	
Leadership Opportunities						

Related Complementary Courses: ▸ Math ▸ Science ▸ AP Statistics

P = UC/CSU Approved Course   **Articulation = College Credit Opportunity**

Post High School Options (San Diego County):

Pathway	Certificate Programs	2 Year (A.A.) Degree	4 Year (B.A/ B.S Degree)
Software Systems Development	Mira Costa College: Certificate in Cyber Security	Mira Costa College: A.S. Business Information Worker	San Diego State University: B.S. Computer Science
	Mira Costa College: Certificate in Management Information Systems	Mira Costa College: A.S Business Productivity Software Applications	CSU San Marcos: B.S Computer Science B.S Computer Information Systems B.S Software Engineering
	Mira Costa College: Certificate in Information Technology	Palomar College: A.S. Computer Science	University San Diego: B.S. Computer Science
	Palomar College: Computer Science	Palomar College: A.S. Computer Science w emphasis in Video Gaming	UC San Diego: B.S. Computer Science B.S. Computer Engineering B.S. Computer Science with a Specialization in Bioinformatics
	Palomar College: Computer Science w emphasis in Video Gaming	Palomar College: A.S. Information Technology	

Key Software Systems Development Occupations in SD County 2016*

Occupations	Typical Entry- Level Education	2016 Jobs in Industry	Median Hourly Earnings
Software Developers, Applications	**B.S. Degree**	**10,032**	**$49.04**
Software Developers, Systems Software	**B.S. Degree**	**7,581**	**$55.40**
Computer Programmers	**B.S. Degree**	**3,472**	**$38.06**
Web Developers	**A.A. Degree**	**1,857**	**$33.44**
Computer Network Support Specialists	**A.A. Degree/ B.A, Degree**	**2,347**	**$34.20**
Information Security Analysts	**B.A.Degree**	**819**	**$46.32**

Source: QCEW Employees & Non-QCEW Employees - EMSI 2017.2 Class of Worker

Skills that Employers say are VERY IMPORTANT

Problem Solving ■ Critical Thinking ■ Social and verbal communication ■ Industry-specific knowledge