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| Career Technical Education (CTE) Program of Study for Entry into 4 Year University System | | | | | | | | | | | | | | | | | | |
|  | | | **Name:** | | | | | **ID:** | | | **Gr:** | | **Department:** Business Department | | | | | |
| **Industry Sector:**  Information and Communication Technologies | | | | | **Career Pathway:**  Software and Systems Development | | | | | | | **Student Organization or Club:**  FBLA: Future Business Leaders of America | | | |
| **Recommended High School Course Schedule** | | | | | | | | | | | | | | | | | | |
| ***Level*** | ***Grade*** | ***English*** | | ***Social Studies*** | | ***Math*** | ***Science*** | | | ***Other Required Courses, Electives, CTE*** | | | | ***Other Required Courses, Electives, CTE*** | | | ***Work-Based***  ***Learning Activities*** | |
| Secondary | 9 | English 1 or  English 1 Pre-AP | | Geography & Health & Wellness | | Geometry | Biology | | | Physical Ed 1 | | | | Foreign Language | | | * FBLA | |
| 10 | English 2 or  English 2 Pre-AP | | World History or  World History Adv. | | Algebra 2/ Trigonometry or | Chemistry or  Physics | | | Physical Ed 2 | | | | Foreign Language | | | * FBLA * ROP Industry Day | |
| 11 | English 3 or  AP English  Lang/Comp | | US History or  AP US History | | Pre-Calculus or Probability and Statistics | Chemistry or Physics | | | \*\*Computer Applications I,II | | | | \*\*Computer  Programming I | | | * FBLA | |
| 12 | English 4 or  AP English Literature | | Government & Economics or AP US Govern. & Politics | | AP Calculus or AP Statistics or Foreign Language | AP Physics | | | Select one:  Digital Media, Web Design, \*\*Computer Graphics I | | | | \*\*Computer  Programming II | | | * FBLA * Senior Exit Interviews | |
| Postsecondary | **Articulated Courses: Student earns Merced College units of credit for the identified college course when student passes the ACE (Articulated Credit by Exam)** | | | | | | | | | | | | | | | | | |
| MUHSD/ROP | | | | | | | | MERCED COLLEGE | | | | | | | | | UNITS |
| Computer Applications I | | | | | | | | AOM 50B: Document Formatting and Keyboarding | | | | | | | | | 3 |
| Computer Applications I,II | | | | | | | | CPSC 30: Computer Applications | | | | | | | | | 3 |
| Computer Programming I | | | | | | | | CPSC 05A: Visual Basic Programming | | | | | | | | | 3 |
| Computer Graphics I | | | | | | | | ART 41: Graphic Design | | | | | | | | | 3 |
| ***\*ROP Certificate Earned at Completion of Course \*\*Merced College credit earned through articulation \*\*\*ROP & Articulation*** | | | | | | | | | | | | | | | | | | |
| Merced Community College Coursework Related to the Pathway | | | | | | | | | | | | Sample Occupations Related to the Pathway | | | | | | |
| Degrees & Certificates | | | | | Sample Courses | | | | | | | AA or AS Degree or Certificate | | | | BS or BA Degree | | |
| Degrees:  A.S. Computer Science  A.S. Management Information Systems  Certificates:  None available | | | | | CPSC 06: Programming Concepts and Methodology  CPSC 24: Introduction to Computer Studies and Technology  CPSC 40A: Networking for Home and Small Business  CPSC 40B: Working at a Small-to-Medium Business  CPSC 40C: Routing and Switching in the Enterprise  CPSC 40D: Designing & Supporting Computer Networks | | | | | | | Computer Support Specialist  LAN Support Technician  Software/Hardware Installer  Network Administrator  Data Communication Specialist  Web Designer  Webmaster | | | | Systems Engineer  Network Analyst  Database Administrator  Software Engineer  Computer Programmer  Information Systems Architect | | |

Merced College: POS (Programming) Information Support and Services Computer Science 4 year university – 10/16/14