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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 orEnglish 1 Pre-AP | Geography & Health & Wellness  | Geometry | Biology | Physical Ed 1  | Foreign Language | * FBLA
 |
| 10 | English 2 orEnglish 2 Pre-AP | World History orWorld History Adv. | Algebra 2/ Trigonometry or  | Chemistry orPhysics | Physical Ed 2 | Foreign Language | * FBLA
* ROP Industry Day
 |
| 11 | English 3 orAP EnglishLang/Comp  | US History orAP US History | Pre-Calculus or Probability and Statistics | Chemistry or Physics | \*\*Computer Applications I,II | \*\*Computer Programming I | * FBLA
 |
| 12 | English 4 orAP 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
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| 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 ScienceA.S. Management Information SystemsCertificates:None available |  CPSC 06: Programming Concepts and MethodologyCPSC 24: Introduction to Computer Studies and TechnologyCPSC 40A: Networking for Home and Small BusinessCPSC 40B: Working at a Small-to-Medium BusinessCPSC 40C: Routing and Switching in the EnterpriseCPSC 40D: Designing & Supporting Computer Networks |  Computer Support SpecialistLAN Support TechnicianSoftware/Hardware InstallerNetwork AdministratorData Communication SpecialistWeb DesignerWebmaster |  Systems EngineerNetwork AnalystDatabase AdministratorSoftware EngineerComputer ProgrammerInformation Systems Architect |

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