COMPUTER INFORMATION SYSTEMS ASSOCIATE OF ARTS or CERTIFICATE OF ACHIEVEMENT

Students satisfactorily completing the following required courses will be eligible for the **AA degree** and the **Certificate of Achievement in Computer Information Systems**. Confer with a counselor or the dean concerning the specific pattern of requirements for this program and refer to the Degrees and Programs section of the Catalog for information on the Associate in Arts degree.

Computers are everywhere and impact many of our daily activities. Our lives are dependent on information from a computer. Computer skills are a necessity in today's technological world.

The CIS program at College of Alameda prepares you for entry-level business opportunities requiring the use of computer applications, such as word processing, spreadsheet, database management, and geographical information systems (GIS) programs. Our CIS program prepares you for transfer to a university. Advanced students take programming courses, help desk and networking courses, and web publishing courses.

We offer beginning and advanced office application courses. We are the only Peralta college to offer help desk (desktop support technician) courses and networking courses. Our web publishing courses, offered as hybrid (with some face to face meetings) as well as online, lead to a certificate of proficiency upon successful completion of the courses. We also offer other online CIS courses which can fit your busy schedule.

Career Opportunities

The Computer Information Systems (CIS) program prepares students for entry level business positions requiring the use of computer applications, and will qualify students in the use of word processing, spreadsheet and database management applications. More advanced students may enroll in telecommunications and computer networking courses. In some instances, students with work experience in the above mentioned areas may challenge courses based on that experience. Students seeking advanced placement must meet with an instructor to verify knowledge and skills.

Program Learning Outcomes

Upon completion of this program a student will be able to:

- Develop an understanding of the problems and issues confronting individuals and society in general in the use of computers
- Analyze problems and design solutions using the program life cycle concept, HIPO charts, and program logic flowcharts
- Use and write simple Visual Basic code
- Create presentation-quality charts of several types

Degree Major/Certificate Requirements:

Dept/No. CIS 1	Title Introduction to Computer Information Systems (4)	Units on		Title inimum of 9-10 units from the follow Word Processing II (3)	Units ving:
CIS 5 CIS 40 CIS 42 BUS 238A CIS 238A	or Introduction to Computer Science (5) Database Management Spreadsheet Applications Word Processing I (3) or Word Processing I (3)	4-5 4 4	CIS 238B CIS 23 CIS 25 CIS 36A CIS 36B CIS 39A CIS 97A CIS 209 CIS 234A CIS 234B CIS 234D CIS 234E CIS 239 Total	or Word Processing II (3) C# Programming (4) Object-Oriented Programming Using C++ (4) Java Programming Language I (4) Java Programming Language II (4) UNIX/LINUX Operating System (4) Oracle SQL and PL/SQL (4) Introduction to Windows (1) World Wide Web Publishing I (2) World Wide Web Publishing II (2) Web Authoring (2) Creating an E-Commerce Web Site (2) Help Desk Tools and Techniques (2) Required Units:	,