

College of San Mateo

A.S. in Computer & Information Science with the  
Computer Science Applications Development Certificate

2002-03 Catalog Requirements

---

**A. Residence**

Either 48 of the 60 units required, or the last 12 units, must be completed at CSM.

**B. Scholarship**

A minimum GPA of 2.0 in the last 60 units, and a minimum GPA of 2.0 in courses taken at CSM and submitted as part of the 60 units. A maximum of 12 units may be taken with the CR/NC option.

**C. Competency Requirements**

1. Math/Quantitative Reasoning (MATH 120)  
 2. English (ENGL 100)

**D. Major Requirements** (28 units NOT used to satisfy other A.S. GE requirements)

- |   |  |  |
|---|--|--|
| <input type="checkbox"/> CIS 110 (3)                | <input type="checkbox"/> CIS 118/119 (4)           | <input type="checkbox"/> CIS 150 (3)     |
| <input type="checkbox"/> CIS 250/251 or 284/286 (4) | <input type="checkbox"/> CIS 252/253 or 286/287(4) | <input type="checkbox"/> CIS 290/291 (4) |
| <input type="checkbox"/> Adv. Pgmng. Elec. (4)      | <input type="checkbox"/> Adv. Pgmng. Elec. (4)     | <input type="checkbox"/> ENGL 100 (3)    |
| <input type="checkbox"/> MATH 120 or higher (5)     |  |  |

**E. General Education**

1. American History and Institutions  
 Group 1: American History and Institutions  
 Group 2: California State and Local Government
2. Language and Rationality  
 English, Literature, Speech Communication  
 Communication and Analytical Thinking (ENGL 100)
3. Health Science
4. Physical Education  
 Semester 1  
 Semester 2
5. Additional Requirements  
 Natural Science  
 Social Science  
 Humanities  
 Career Exploration (CIS 110)

**To earn a Certificate without an A.S. degree, just complete the Major Requirements listed in section D.**