

## Associate Degree Graduation Requirements

- (1) Complete all department requirements with a “C” or better or “P” in each course (at least 20% of the department requirements must be completed through SBCC); (2) Complete at least 18 units of General Education Requirements ([Areas A-D](#) of the SBCC General Education pattern); (3) Complete the SBCC Institutional Requirements ([Area E](#)); (4) Complete the Information Competency Requirement ([Area F](#)); (5) Complete a total of 60 degree-applicable units (SBCC courses numbered 100 and higher); (6) Maintain a cumulative GPA of 2.0 or better in all units attempted at SBCC; (7) Maintain a cumulative GPA of 2.0 or better in all college units attempted; and (8) Complete 15 units through SBCC.

### Department Requirements

(Total Department Units: 41-42)

<i>Current Course No.</i>	<i>Previous Course No.</i>	<i>Title</i>	<i>Units</i>	<i>Institution &amp; Course No.</i>	<i>Grade</i>	<i>Units (s/q)</i>	<i>Term</i>
• CIS 201.....	(none).....	UNIX/Linux System Administration <b>OR</b> .....	4.0	_____			
CIS 206 .....	(none).....	MS Windows Server System Administration <b>OR</b> ...	4.0	_____			
CIS 213 .....	(none).....	MS Exchange Server Administration <b>OR</b> .....	3.0	_____			
CIS 219 .....	(none).....	VMWare vSphere System Administration .....	3.0	_____			
• CNEE 101 .....	(ECT 101).....	Intro. to Computer Network Technology.....	3.0	_____			
• CNEE 102 .....	(ECT 220/MAT 160).....	Managing & Maintaining Comp. Hardware-A+ .....	3.0	_____			
• CNEE 106 .....	(ECT 225/MAT 162).....	Telecommunications & WAN.....	3.0	_____			
• CNEE 110 .....	(none).....	Networking Essentials .....	3.0	_____			
• CNEE 112 .....	(ECT 220/MAT 160).....	Managing & Maintaining Comp. Software-A+ .....	3.0	_____			
• CNEE 120 .....	(none).....	Fundamentals of Network Security.....	3.0	_____			
• CNEE 124 .....	(none).....	Internetworking with Tcp/Ip .....	3.0	_____			
• CNEE 125* ...	(none).....	CCNA I: Introduction to Switching and Routing ....	5.0	_____			
• CNEE 126^ ...	(none).....	CCNA II: Adv. Switching & Routing & Wireless ..	5.0	_____			
• CNEE 146 .....	(none).....	Firewalls and VPNs.....	4.0	_____			
• CNEE 206 .....	(none).....	MS Windows Network Infrastructure.....	3.0	_____			

\* Students who completed CNEE 131 and 132 are exempt from taking CNEE 125.

^ Students who completed CNEE 133 and 134 are exempt from taking CNEE 126.

Recommended Course Sequence: First semester: CNEE 101, 102, 106. Second semester: CNEE 110, 112, 124, 125. Third Semester: CNEE 120, 126. Fourth semester: CNEE 146, 206, CIS 206.

### Additional Program Information

For further information, contact the Counseling Center, 965-0581, Ext. 2285, or Angel Cárdenas, Department Chair, Ext. 3063.

**SBCC AA/AS Degree Graduation Requirements (Must complete I, II, III and IV below)**



Santa Barbara City College

# Computer Network Engineering

## 2017-18

### Associate in Science Degree in Computer Network Engineering

The Computer Network Engineering program is for those wishing to enter the specialized field of computer network design and support.

### Careers in Computer Network Engineering

Computer Network Engineering is a diverse and expanding field which leads to careers that include: telecommunications/data communications technician, network service technician, LAN/WAN designer, and LAN/WAN support.

**I. General Education, Institutional & Information Competency (Institution & Course Number)    Grade    Units (s/q)    Term**

<b>A-D.    General Education Requirements**</b>			
A.    Natural Sciences with Lab			
B.    Social and Behavioral Science			
C.    Humanities			
D.    Language and Rationality			
D-1.    English Composition			
D-2.    Communication and Analytical Thinking			
<b>E.    SBCC Institutional Requirements**</b>			
E-1.    Mathematics			
<i>Plus complete three out of the four areas listed below (E-2 through E-5)</i>			
E-2.    American Institutions			
E-3.    Physical Education/Health Education			
E-4.    Oral Communication			
E-5.    Multicultural/Gender Studies			
<b>F.    Information Competency Requirement**</b>			

\*\*For specific course, unit, grade and other graduation requirements see the General Education, Institutional and Information Competency Requirements handout available in the Counseling department or visit <http://www.sbcc.edu/apply/files/gereq.pdf>

**II. Unit and Grade Point Average Requirements:** Refer to Graduation Requirements on the other side of this document.

	<i>Total Semester Units Attempted</i>	<i>Total Semester Units Completed</i>	<i>Grade Points</i>	<i>GPA</i>
SBCC				
Transfer				
Total				

- III. Residency Requirements:** 1) 15 units completed through SBCC?     Yes     No  
 2) 20% of Department Requirements completed through SBCC?     Yes     No

**IV. Department Requirements:** Refer to the other side of this document for a list of required courses. Were all department requirements completed with a "C" or higher or "P" in each course?     Yes     No

Waivers/Substitutions: \_\_\_\_\_

Counselor Comments: \_\_\_\_\_

Student's Name: \_\_\_\_\_ Student ID: K \_\_\_\_\_

Counselor's Name: \_\_\_\_\_ Code: \_\_\_\_\_ Date: \_\_\_\_\_

***SBCC: Your Open Door to Educational Excellence***