Certificate of Achievement Requirements

Complete all department requirements for the certificate with a cumulative grade point average (GPA) of 2.0 or better. Candidates for a Certificate of Achievement are required to complete at least 20% of the department requirements through SBCC.

Department Requirements
(Total Department Units: 41-42)

Current Course No.	Previous Course No.	Title	Units	Institution & Course No.	Grade	Units (s/q)	Term
• CIS 201	(none)	UNIX/Linux System Administration *OR*	4.0				
CIS 206	(none)	MS Windows Server System Administration *OR*	4.0				
CIS 213	(none)	MS Exchange Server Administration *OR*	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 Computer Hardware-A+	3.0				
• CNEE 106	(ECT 225/MAT 162)	Telecommunications and WAN	3.0				
• CNEE 110	(none)	Networking Essentials	3.0				
• CNEE 112	(ECT 220/MAT 160)	Managing & Maintaining Computer 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: Intro to Switching and Routing	5.0				
• CNEE 126+	(none)	CCNA II: Adv Routing & Switching & 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. 2753.

Santa Barbara City College

Associate Degrees and Certificates of Achievement *(In alphabetical order)* **- For a complete list of programs of study (associate degrees, certificates, skills competency awards and department awards) and requirements, go to http://www.sbcc.edu/apply/degrees_certificates.php.**

Accounting (AS)
Accounting/Assistant Bookkeeper IV (C)
Administration of Justice (AA/AS/C)–3 emph. avail (AS&C), 1(AA)
Administration of Justice for Transfer (AS-T)
Alcohol and Drug Counseling (AA/C)
American Sign Language (AA)
Animation and Gaming (AA/C)
Anthropology (AA)
Anthropology for Transfer (AA-T)
Applied Photography (AA/C)
Art (AA) - 2 emphases available
Art History for Transfer (AA-T)
Associate Child Care Teacher (C)
Automotive Services & Technology (AS/C)

Biological Sciences (AA)
Black Studies (AA)
Business Administration (AA/C) – 3 emphases available for AA, 2 for C
Business Administration for Transfer (AS-T)

Cancer Information Management (AS/C)
Chemistry (AA)
Chicano Studies (AA)
Commercial Music (C)
Communication (AA) - 2 emphases available
Communication Studies for Transfer (AA-T)
Computer App. & Office Mgmt (AS/C) - 2 emphases available
Computer Information Systems (AS) – Emph. in System Admin. available
Computer Network Engineering (AS/C)
Computer Science (AS/C)
Construction Technology (AS/C)
Cosmetology (AS/C)
Creative Writing (C) – 2 emphases available
Culinary Arts (AS/C)

Database Programming and Applications Development (C)
Diagnostic Medical Sonography (C)
Diversity Issues in ECE (C)
Drafting/CAD (AS/C)

Early Childhood Education (AS/C)
Early Childhood Education for Transfer (AS-T)
Economics (AA)
Economics for Transfer (AA-T)
Elementary Teacher Education (AA-T)
Engineering (AA/AS)
English (AA)
English for Transfer (AA-T)
Environmental Horticulture (AS/C) - 4 emphases available for AS, 1 for C
Environmental Studies (AA)
Ethnic Studies (AA)

Film Production (AA)
Film and Media Studies (AA)
Finance (AA/C)
French (AA)

Geography (AA)
Geography for Transfer (AA-T)
Geological Sciences (AS)
Geology for Transfer (AS-T)
Global Studies (AA)
Graphic Design & Photography – Graphic Design Conc. (AA/C)

Health Information Technology (AS)
Healthy Aging (AA)
History (AA)
History for Transfer (AA-T)
Honors (C/C with highest honors) – 2 emphases available
Hospitality (AS/C)
Infant/Toddler Development (C)
Interior Design (AA/C)
International Business (AA/C)
Introduction to Graphic Design (C)

Journalism (AA/C)
Journalism for Transfer (AA-T)

Kinesiology for Transfer (AA-T)

Law & Society (AA) - Emphasis in Criminal Justice available
Liberal Arts (AA) – Emphasis in Biomedical Sciences
Liberal Arts & Sciences (AA) – 3 emphases available
Liberal Studies (AA) – Emphasis in Education

Marine Diving Technician (AS/C)
Marketing (AA/C)
Mathematics (AA)
Mathematics for Transfer (AS-T)
Media Arts (AA/C)
Medical Coding Specialist (C)
Middle East Studies (AA)
Music (AA)

Native American Studies (AA)
Natural History (AA)
Nursing - ADN (AS)

PC Support/Network Management (C)
Philosophy (AA)
Philosophy for Transfer (AA-T)
Physical Education (AA) – Emphasis in Athletic/Personal Fitness avail.
Physics (AA/AS)
Physics for Transfer (AS-T)
Political Science (AA)
Political Science for Transfer (AA-T)
Post-Professional Practice in ADC (C)
Psychology (AA)
Psychology for Transfer (AA-T)

Radiography (AS)
Real Estate (AS/C)

School-Age Care (C)
Sociology (AA)
Sociology for Transfer (AA-T)
Spanish (AA)
Spanish for Transfer (AS-T)
Studio Arts for Transfer (AA-T)

Theatre Arts (AA) - 3 emphases available
Theatre Arts for Transfer (AA-T)
Transfer – CSU General Education Breadth Pattern (C)
Transfer – IGETC (C)

Vocational Nursing (AS/C)

Wastewater Technology Education (C)
Water Technology Education (C)

Key: (AA)=Associate in Arts; (AA-T)=Associate in Arts for Transfer; (AS)=Associate in Science; (AS-T)= Associate in Science for Transfer; (C)=Certificate of Achievement

SB CC **Santa Barbara City College**

Computer Network Engineering

2017-18

Certificate of Achievement in Computer Network Engineering

The certificate in Computer Network Engineering is a program for those wishing to enter the specialized field of computer network design and support. Students may obtain the certificate as an intermediate step prior to receiving the A.S. Degree.

Careers in Computer Network Engineering

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

SBCC: Your Open Door to Educational Excellence