

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: 24-27)

<i>Current Course No.</i>	<i>Previous Course No.</i>	<i>Title</i>	<i>Units</i>	<i>Institution & Course No.</i>	<i>Grade</i>	<i>Units (s/q)</i>	<i>Term</i>
• COMP 101	(COMAP 101/OIS 142&CIS 109)	Introduction to Computer Applications.....	4.0				
• WTRS 101.....	(WTRSC 101/14).....	Water Distribution Systems OR	3.0				
• WTRS 110.....	(WTRSC 110/11).....	Basic Water Treatment.....	3.0				
• WTRS 103.....	(WTRSC 103/18).....	Pump and Motor Operation & Maintenance	3.0				
• WTRS 105.....	(WTRSC 105/21).....	Water Science Chemistry and Bacteriology	3.0				
• WTRS 113.....	(WTRSC 113/17).....	Water and Wastewater Hydraulics	3.0				
• WTRS 117.....	(WTRSC 117/26).....	Water and Wastewater Calculations OR	3.0				
MATH 095.....	(100/7).....	Elementary Algebra	5.0				
<i>Plus select two courses from the following:</i>							
• EARTH 171	(EARTH 171)	Introduction to GIS and Maps OR	2.0				
• GEOG 171.....	(none)	Introduction to GIS and Maps	2.0				
• WTRS 101*.....	(WTRSC 101/14).....	Water Distribution Systems	3.0				
• WTRS 102.....	(WTRSC 102/15).....	Water Systems Instrumentation and Controls	3.0				
• WTRS 106.....	(WTRSC 106/22).....	Groundwater Production and Protection	3.0				
• WTRS 110*.....	(WTRSC 110/11).....	Basic Water Treatment.....	3.0				
• WTRS 112.....	(WTRSC 112/16).....	Water Qual. Protec& Cross Connect. Control.....	3.0				
• WTRS 114.....	(WTRSC 114/23).....	Advanced Wastewater Treatment.....	3.0				
• WTRS 116.....	(WTRSC 116/25).....	Water and Wastewater Management.....	3.0				

*NOTE: WTRS 101 and 110 can only satisfy the core requirement or the elective requirement, not both.

Additional Program Information

For further information, contact the Counseling Center, 965-0581, Ext. 2285, or Alan Price, Technologies Division Dean, 965-0581, Ext. 3044.

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



Santa Barbara City College

Water Technology Education

2017-18

Certificate of Achievement in Water Technology Education

The goal of this program is to qualify students to operate water or wastewater facilities according to state and federal regulations. Courses are designed to prepare students to take state and federal exams which, when successfully passed, lead to specific job titles and levels of responsibility in water or wastewater fields.

Careers in Water Technology Education

The Water Technology Certificates are designed to introduce the students to careers in water treatment, water supply and distribution, wastewater treatment and water collection.

SBCC: Your Open Door to Educational Excellence