

Water Science: Water Treatment Option

2011-12

Department Requirements (Total Department Units: 26-27)

2011-12 Course No.	Previous Course No.	Title	Units	Institution & Course No.	Grade	Units (s/q)	Term
• BMS 117	(BIOMD 117/20)	Introductory Microbiology	3.0				
• MATH 100	(7)	Elementary Algebra	5.0				
• WTRS 101	(WTRSC 101/14)	Water Distribution Systems	3.0				
• WTRS 104	(WTRSC 104/20)	Advanced Water Treatment	3.0				
• WTRS 105	(WTRSC 105/21)	Water Science Chemistry and Bacteriology	3.0				
• WTRS 110	(WTRSC 110/11)	Basic Water Treatment	3.0				

Water Science Elective Courses: Select one course from the following:

• WTRS 100	(WTRSC 100/12)	Basic Wastewater Treatment	3.0				
• WTRS 102	(WTRSC 102/15)	Water Systems Instrumentation and Controls	3.0				
• WTRS 103	(WTRSC 103/18)	Pump and Motor: Operation & Maintenance	3.0				
• WTRS 112	(WTRSC 112/16)	Water Qual. Protec & Cross Connect. Control	3.0				
• WTRS 113	(WTRSC 113/17)	Water and Wastewater Hydraulics	3.0				
• WTRS 116	(WTRSC 116/25)	Water and Wastewater Management	3.0				

Support Elective Course List: Select one course from the following:

• EARTH 111	(EARTH 111/3)	Dynamic Earth – Physical Geology	3.0				
• EARTH 111H	(none)	Dynamic Earth – Physical Geology, Honors	4.0				
• PHYS 101	(1)	Conceptual Physics	3.0				
• PHYS 101H	(101HR)	Conceptual Physics, Honors	4.0				

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. Pass/no Pass grading is not permitted in those courses needed to fulfill department requirements.

Additional Program Information

For further information, contact the Counseling Center, 965-0581, Ext. 2285, or Geoff Thielst, Department Chair, 965-0581, Ext. 2718. Check your certificate progress with DARS U-Achieve at www.sbccc.edu/DARS.

Programs of Study (In alphabetical order)

Accounting (AS)
 Accounting/Assistant Bookkeeper I-IV [I-III (D); IV (C)]
 Accounting Information Systems I-III (SCA)
 Acute Care CNA (SCA)
 Administration of Justice (AA/AS/C) – 3 emph. available for AS & C, 1 for AA
 Advanced Studies in Alcohol and Drug Counseling (SCA)
 Alcohol and Drug Counseling (AA/C)
 Animation (AA/C)
 Anthropology (AA)
 Applied Photography (AA/C)
 Art (AA) - 2 emphases available
 Associate Child Care Teacher (C)
 Automotive Services & Technology (AS/C)

Baking and Pastry (SCA)
 Biological Sciences (AA)
 Bio-Medical Sciences (D)
 Black Studies (AA)
 Bookkeeping (SCA)
 Business Admin. (AA/C/SCA) – 3 emphases available for AA, 2 for C, 2 for SCA
 Business Communications (SCA)

Cancer Information Management (AS/C)
 Certified Nursing Assistant (SCA)
 Chemistry (AA)
 Chicano Studies (AA)
 Cisco Networking Associate (SCA)
 Cisco Networking Professional (SCA)
 Commercial Diving (SCA)
 Commercial Music (C)
 Communication (AA) - 2 emphases available
 Computer App. & Office Managem. (AS/C) - 2 emphases available
 Computer Information Systems (AS) – Emph. in System Administration available
 Computer Network Engineering (AS/C)
 Computer Networking Technology (SCA)
 Computer Proficiency Online (SCA)
 Computer Science (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)
 Digital Darkroom and Color Management for RGB (SCA)
 Diversity Issues in ECE (C)
 Drafting/CAD (AS/C)

Early Childhood Education (AS/C)
 Economics (AA)
 Emergency Medical Technician/Basic (SCA)
 Engineering (AA/AS)
 English (AA)
 Entrepreneurship (SCA) – 3 emphases available
 Environmental Horticulture (AS/C) - 4 emphases available for AS, 1 for C
 Environmental Studies (AA)
 Esthetician (SCA) – 2 levels available
 Ethnic Studies (AA)

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

Game Design (D)
 Geography (AA)
 Geological Sciences (AA)
 Global Studies (AA)
 Graphic Design & Photography – Graphic Design Concentration (AA/C)
 Graphic Design (C)
 Great Books Curriculum (D)

Health Care IT Workforce Training (SCA)
 Health Information Technology (AS)
 Help Desk and Desktop Support (SCA) – 2 levels available

History (AA)
 Home Health Aide (SCA)
 Honors (C/C with highest honors) – 2 emphases available
 Hospitality (AS/C)
 Hospitality Operations Specialist (SCA)
 Human Resource Hospitality Specialist (SCA)

Infant/Toddler Development (C)
 Information Technology Management (SCA)
 Interior Design (AA/C)
 International Business (AA/C)
 International Marketing Communication (SCA)
 Introduction to Teaching English as a Foreign Language (SCA)

Journalism (AA/C) – 3 emphases available

Landscape Operations (SCA)
 Law & Society (AA) - Emphasis in Criminal Justice available
 Liberal Arts & Sciences (AA) – 4 emphasis available
 Liberal Studies (AA) – Emphasis in Education

Manicure (SCA)
 Marine Diving Technician (AS/C)
 Marine Science (D)
 Marketing (AA/C)
 Mathematics (AA)
 Media Arts (AA/C)
 Media Design and Development (SCA)
 Medical Coding Specialist (C)
 Microsoft Office Development (SCA)
 Microsoft SQL Server Database Administration (SCA)
 Microsoft Windows System Administration and Security (SCA)
 Middle East Studies (AA)
 Mobile Application Developer (SCA)
 Mobile Device Administration (SCA)
 Mobile Media Core (SCA)
 Music (AA/D)

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

Office Assistant (SCA)

PC Support/Network Management (C)
 Personal Chef Training (SCA)
 Philosophy (AA)
 Photo Design (SCA) – 3 awards available
 Physical Education (AA) - 3 emphases available
 Physics (AA/AS)
 Political Science (AA)
 Post-Professional Practice in ADC (C)
 Print and Color Management for CMYK (SCA)
 Psychology (AA)

Radiography (AS)
 Real Estate (AS/C)

Sales and Marketing (SCA)
 School-Age Care (C)
 Sociology (AA)
 Spanish (AA)
 Sustainable Horticulture (SCA)

Technical Writing (SCA)
 Theatre Arts (AA) - 3 emphases available and 1 department award
 Transfer – CSU General Education Breadth Pattern (C)
 Transfer – IGETC (C)

Virtualization System Administration (SCA)
 Vocational Nursing (AS/C)

Water Science (C) - 4 options available
 Web Journalism (SCA)
 Web Marketing and Media Design (SCA)
 Web Programming (SCA)
 Web Server Administration (SCA)



Santa Barbara City College

Water Science: Water Treatment Option 2011-12

Certificate of Achievement in Water Science: Water Treatment Option

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 Science

The Water Science Certificates are designed to introduce the students to careers in water treatment, water supply and distribution, wastewater treatment and water collection. The other three Water Science specialization options are listed below.

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Educational Excellence***

Key: (AA)=Associate in Arts; (AS)=Associate in Science; (C)=Certificate of Achievement; (D)=Department Award; (SCA)= Skills Competency Award