

**SAN BERNARDINO VALLEY COLLEGE**  
**SUBMITTED FOR BOARD OF TRUSTEE APPROVAL**  
**June 11, 2009**

**NEW COURSES**

**Division:** Humanities  
**Department:** English  
**Course ID:** ESL 601  
**Course Title:** ESL BEGINNING LEVEL 1 - INTRODUCTION TO BASIC ENGLISH LITERACY  
**Units:** 0 - 0  
**Lecture:** 10.00 - 15.00 contact hour(s) per week  
**Prerequisite:** None

**Catalog Description:** This non-credit course is designed to introduce beginning English language learners to basic English letter-sound correspondence, vocabulary, and sentence patterns. Students will start using English to speak about themselves, their families, and their community. Students will learn to read and complete simple forms.

**Schedule Description:** This non-credit course is designed to introduce beginning English language learners to basic English letter-sound correspondence, vocabulary, and sentence patterns. Students will start using English to speak about themselves, their families, and their community. Students will learn to read and complete simple forms.

**Division:** Humanities  
**Department:** English  
**Course ID:** ESL 602  
**Course Title:** ESL BEGINNING LEVEL 2 - ENGLISH AT HOME AND SCHOOL  
**Units:** 0 - 0  
**Lecture:** 10.00 - 15.00 contact hour(s) per week

**Departmental Advisory:** Successful completion of ESL 601 or eligibility as determined through the SBVC assessment process.

**Catalog Description:** This non-credit course is designed to prepare low beginning learners of English with vocabulary and sentence structure to communicate in social and academic settings. Students will learn the standard language to give and respond to directions, as well as to speak about home and classroom routines and community life using a variety of sentence patterns. In addition, students will learn beginning note-taking skills.

**Schedule Description:** This non-credit course is designed to prepare low beginning learners of English with vocabulary and sentence structure to communicate in social and academic settings. Students will learn the standard language to give and respond to directions, as well as to speak about home and classroom routines and community life using a variety of sentence patterns. In addition, students will learn beginning note-taking skills.

**Effective Date: FA10**

**Rationale:** Currently there are no courses designed to teach English to nonnative speakers of English with minimal to no English language skills. Thereby, these courses will provide instruction to this population of students to prepare them for the credit composition based ESL classes that this college offers.

## NEW COURSES

**Division:** Humanities

**Department:** English

**Course ID:** ESL 603

**Course Title:** ESL INTERMEDIATE LEVEL 3 - ENGLISH FOR WORK AND LEISURE

**Units:** 0 - 0

**Lecture:** 10.00 - 15.00 contact hour(s) per week

**Departmental Advisory:** Successful completion of ESL 602 or eligibility as determined through the SBVC assessment process.

**Catalog Description:** This non-credit course is designed to prepare high beginning English learners to use a variety of English structures and vocabulary for vocation and leisure. Students will learn appropriate linguistic behaviors with regards to the setting and time of the occasion being discussed. Students will use past, present, and future time verbs.

**Schedule Description:** This non-credit course is designed to prepare high beginning English learners to use a variety of English structures and vocabulary for vocation and leisure. Students will learn appropriate linguistic behaviors with regards to the setting and time of the occasion being discussed. Students will use past, present, and future time verbs.

**Division:** Humanities

**Department:** English

**Course ID:** ESL 604

**Course Title:** ESL ADVANCED LEVEL 4 - ENGLISH FOR WORK AND EDUCATION

**Units:** 0 - 0

**Lecture:** 10.00 - 15.00 contact hour(s) per week

**Departmental Advisory:** Successful completion of ESL 603 or eligibility as determined through the SBVC assessment process.

**Catalog Description:** This non-credit course is designed to prepare high beginning learners of English to use standard language at a job interview, and in conversations on the job and at school. Students will begin learning aspects of composition. In addition, students will continue learning note-taking skills.

**Schedule Description:** This non-credit course is designed to prepare high beginning learners of English to use standard language at a job interview, and in conversations on the job and at school. Students will begin learning aspects of composition. In addition, students will continue learning note-taking skills.

**Effective Date:** FA10

**Rationale:** Currently there are no courses designed to teach English to nonnative speakers of English with minimal to no English language skills. Thereby, these courses will provide instruction to this population of students to prepare them for the credit composition based ESL classes that this college offers.

Curriculum Meetings: 04-27-09; 05-11-09

Conjoint Meeting: 05-15-09

Board of Trustees Meeting: June 11, 2009

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## NEW COURSES

**Division:** Humanities

**Department:** English

**Course ID:** ESL 620

**Course Title:** ENGLISH PRONUNCIATION

**Units:** 0 - 0

**Lecture:** 4.00 contact hour(s) per week

**Departmental Advisory:** Completion of ESL 604 or eligibility as determined through the SBVC assessment process.

**Catalog Description:** This non-credit course is designed to help ESL learners to improve their pronunciation skills in English. The class will focus on Standard English pronunciation, word stress, intonation differentiation, and vocabulary building.

**Schedule Description:** This non-credit course is designed to help ESL learners to improve their pronunciation skills in English.

**Effective Date:** FA10

**Rationale:** Currently there is not a course designed to give nonnative speakers of English an in-depth understanding of methods of pronouncing sounds in American English.

**Division:** Humanities

**Department:** English

**Course ID:** ESL 645

**Course Title:** IDIOMS: THE SECRET LANGUAGE

**Units:** 0 - 0

**Lecture:** 4.00 contact hour(s) per week

**Departmental Advisory:** Fluency in spoken English or eligibility as determined through the SBVC assessment process.

**Catalog Description:** This non-credit course is designed to help nonnative students understand American idiomatic expressions commonly used by native speakers. Students will receive instruction on the meaning and use of idioms and how to apply their knowledge of idioms both through oral and written practice.

**Schedule Description:** This non-credit course is designed to help nonnative students understand American idiomatic expressions commonly used by native speakers.

**Effective Date:** FA10

**Rationale:** Currently there is not a course designed to give nonnative speakers of English an in-depth understanding of American English idioms.

Curriculum Meetings: 04-27-09; 05-11-09

Conjoint Meeting: 05-15-09

Board of Trustees Meeting: June 11, 2009

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## NEW COURSES

**Division:** Humanities  
**Department:** English  
**Course ID:** ESL 650  
**Course Title:** CITIZENSHIP PREPARATION - PART 1: BASIC ENGLISH LISTENING, SPEAKING, READING, AND WRITING  
**Units:** 0 - 0  
**Lecture:** 10.00 contact hour(s) per semester  
**Prerequisite:** None.

**Catalog Description:** This non-credit course is designed to prepare prospective candidates for the English portion of the U.S. citizenship process. Students will learn skills to improve their basic listening, speaking, reading, and writing abilities through practice and drills.

**Schedule Description:** This non-credit course is designed to prepare prospective candidates for the English portion of the U.S. citizenship process. Students will learn skills to improve their basic listening, speaking, reading, and writing abilities.

**Division:** Humanities  
**Department:** English  
**Course ID:** ESL 651  
**Course Title:** CITIZENSHIP PREPARATION - PART 2: CIVIC PRINCIPLES AND FUNDAMENTAL U.S. HISTORY  
**Units:** 0 - 0  
**Lecture:** 10.00 contact hour(s) per week  
**Prerequisite:** None.

**Catalog Description:** This non-credit course is designed to prepare prospective candidates for the civics portion of the U.S. citizenship process. Students will learn the rights and responsibilities of being a U.S. citizen, in addition to learning how to complete all required immigration forms and practicing the USCIS Citizenship Test by becoming familiar with U.S. history.

**Schedule Description:** This non-credit course is designed to prepare prospective candidates for the civics portion of the U.S. citizenship process. Students will learn the rights and responsibilities of being a U.S. citizen, in addition to learning how to complete all required immigration forms and practicing the USCIS Citizenship Test by becoming familiar with U.S. history.

**Effective Date:** FA10

**Rationale:** Citizenship preparation courses provide needed instruction for prospective citizens.

## NEW COURSES

**Division:** Science  
**Department:** WATER SUPPLY TECHNOLOGY  
**Course ID:** WST 074  
**Course Title:** Water/Wastewater Analysis  
**Units:** 2  
**Lecture:** 1 contact hour(s) per week  
16 - 18 contact hours per semester  
**Laboratory:** 3 contact hour(s) per week  
48 - 54 contact hours per semester  
**Prerequisite:** CHEM 110 and WST 072 or WST 092

**Catalog Description:** This course examines fundamentals of laboratory analysis with emphasis on chemical and microbiological procedures used by water and wastewater plant operators. The course includes procedures and techniques used in physical, chemical, and bacteriological examination of water/wastewater.

**Schedule Description:** This course examines fundamentals of laboratory analysis with emphasis on chemical and microbiological procedures used by water and wastewater plant operators.

**Effective Date: FA10**

**Rationale:** As part of their routine work both water and wastewater operators are required to monitor the quality of water. This course provides hands on training in simplified procedures which are used in examination of water/wastewater.

**Division:** Science  
**Department:** WATER SUPPLY TECHNOLOGY  
**Course ID:** WST 092  
**Course Title:** Wastewater Treatment II  
**Units:** 3  
**Lecture:** 3 contact hour(s) per week  
48 - 54 contact hours per semester  
**Prerequisite:** WST 091

**Catalog Description:** This is a second course in a series on wastewater treatment. It includes material usually found in the State Water Resources Control Board (SWRCB) Grade II Certificate exam.

**Schedule Description:** This is a second course in a series on wastewater treatment. It includes material usually found in the State Water Resources Control Board (SWRCB) Grade II Certificate exam.

**Effective Date: FA10**

**Rationale:** The wastewater treatment program has been completely realigned to parallel the state licensing requirements. This course was created to prepare students to take the second level licensing exam in wastewater treatment offered by the State Water Resources Control Board.

## NEW COURSES

**Division:** Science  
**Department:** WATER SUPPLY TECHNOLOGY  
**Course ID:** WST 093  
**Course Title:** Wastewater Treatment III  
**Units:** 3  
**Lecture:** 3 contact hour(s) per week  
 48 - 54 contact hours per semester

**Prerequisite:** WST 092

**Departmental Advisory:** CHEM 110

**Catalog Description:** This is the third course in a series on wastewater treatment. It includes material usually found in the State Water Resources Control Board (SWRCB) grade III certificate examination.

**Schedule Description:** This is the third course in a series on wastewater treatment. It includes material usually found in the State Water Resources Control Board (SWRCB) grade III certificate examination.

**Effective Date:** FA10

**Rationale:** This course was created to prepare students to take the third level licensing exam in wastewater treatment offered by the State Water Resources Control Board. This license is necessary for a person to work in a level 3 sewage treatment plant.

## MODIFIED COURSES

| COURSE ID | COURSE TITLE   |
|-----------|----------------|
| ACAD 110  | TUTOR TRAINING |

**Course ID:** ACAD 010

**Department Advisory:** Completion of any college-level course to be tutored with a grade of B or better is required.

**Catalog Description:** This course presents techniques and strategies for effective academic peer tutoring in a community college setting. Emphasis is on tutoring, study skill techniques and practical skills to use in a variety of tutoring situations. Graded on pass/no pass basis only. (Formerly ACAD 110)

**Schedule Description:** This course presents techniques and strategies for academic peer tutoring in a community college setting. Emphasis is on tutoring, study skill techniques and practical skills to use in a variety of tutoring situations. Graded on pass/no pass basis only. (Formerly ACAD 110)

**Transfer Status:** Non-Transferrable

**Effective Date:** FA10

**Rationale:** Content Review

| COURSE ID | COURSE TITLE                      |
|-----------|-----------------------------------|
| ECON 208  | BUSINESS AND ECONOMICS STATISTICS |

**Prerequisite:** MATH 095 or eligibility for MATH 102 as determined through the SBVC assessment process.

**Catalog Description:** This course is a study of statistical methods commonly used in business and economics including measures of central tendency; measures of dispersion and skewness; probability concepts and distributions; statistical inferences; parametric and non-parametric hypothesis testing; index numbers time series analysis; simple regression, and correlation analysis.

**Schedule Description:** This course is a study of statistical methods commonly used in business and economics including measures of central tendency; measures of dispersion and skewness; probability concepts and distributions; statistical inferences; parametric and non-parametric hypothesis testing; index numbers time series analysis; simple regression, and correlation analysis.

**Effective Date:** FA10

**Rationale:** Content Review

Curriculum Meetings: 04-27-09; 05-11-09

Conjoint Meeting: 05-15-09

Board of Trustees Meeting: June 11, 2009

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| <b>MODIFIED COURSES</b> |
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| <b>COURSE ID</b> | <b>COURSE TITLE</b>                  |
|------------------|--------------------------------------|
| <b>ENGL 075</b>  | LITERATURE AND RELIGION OF THE BIBLE |

**Catalog Description:** This course covers The English Bible as literature and as religion including an examination of the types of literature found in the Bible, the historical and religious context in which the literature was developed and an extensive reading of the two testaments. This non-transfer course is taught simultaneously with ENGL 175, a transfer-level course. Assignments differ for the two courses although students participate in the same lectures.

**Schedule Description:** This course covers The English Bible as literature and as religion including an examination of the types of literature found in the Bible, the historical and religious context in which the literature was developed and an extensive reading of the two testaments. This non-transfer course is taught simultaneously with ENGL 175, a transfer-level course. Assignments differ for the two courses although students participate in the same lectures.

**Effective Date: FA10**

**Rationale:** Content Review

| <b>COURSE ID</b> | <b>COURSE TITLE</b> |
|------------------|---------------------|
| <b>ENGL 153</b>  | LITERATURE AND FILM |

**Prerequisite:** ENGL 101 or ENGL 101H

**Laboratory Hours:** 3 contact hour(s) per week  
48 - 54 contact hours per semester

**Catalog Description:** This course studies literature that has been adapted into film. Students will read short stories, novels, and plays; view the film(s) adapted from each literary work; and write critical and analytic essays about the literature, the films, and their interplay.

**Schedule Description:** This course studies literature that has been adapted into film. Students will read short stories, novels, and plays; view the film(s) adapted from each literary work; and write critical and analytic essays about the literature, the films, and their interplay.

**Effective Date: FA10**

**Rationale:** Content Review

| <b>COURSE ID</b> | <b>COURSE TITLE</b>                  |
|------------------|--------------------------------------|
| <b>ENGL 175</b>  | LITERATURE AND RELIGION OF THE BIBLE |

**Title:** THE LITERATURE AND RELIGION OF THE BIBLE

**Prerequisite:** ENGL 101 or ENGL 101H

**Catalog Description:** This course covers The English Bible as literature and as religion including an examination of the types of literature found in the Bible, the historical and religious context in which the literature was developed and an extensive reading of the two testaments. This transfer-level course is taught simultaneously with ENGL 075, a non-transfer course. Assignments differ for the two courses although students participate in the same lectures. This course is also offered as RELIG 175.

**Schedule Description:** This course covers The English Bible as literature and as religion including an examination of the types of literature found in the Bible, the historical and religious context in which the literature was developed and an extensive reading of the two testaments. This transfer-level course is taught simultaneously with ENGL 075, a non-transfer course. Assignments differ for the two courses although students participate in the same lectures. This course is also offered as RELIG 175.

**Effective Date: FA10**

**Rationale:** Content Review

Curriculum Meetings: 04-27-09; 05-11-09

Conjoint Meeting: 05-15-09

Board of Trustees Meeting: June 11, 2009

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| <b>MODIFIED COURSES</b> |
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| <b>COURSE ID</b> | <b>COURSE TITLE</b>                        |
|------------------|--|
| <b>MATH 108</b>  | INTRODUCTION TO PROBABILITY AND STATISTICS |

**Catalog Description:** This course is an introduction to probability, descriptive and inferential statistics, with applications to the natural sciences, business, economics, and the behavioral sciences.

**Schedule Description:** This course is an introduction to probability, descriptive and inferential statistics, with applications to the natural sciences, business, economics, and the behavioral sciences.

**Effective Date: FA10**

**Rationale:** Content Review

| <b>COURSE ID</b> | <b>COURSE TITLE</b>                  |
|------------------|--------------------------------------|
| <b>RELIG 175</b> | LITERATURE AND RELIGION OF THE BIBLE |

**Title:** THE LITERATURE AND RELIGION OF THE BIBLE

**Prerequisite:** ENGL 101 or ENGL 101H

**Catalog Description:** This course covers The English Bible as literature and as religion including an examination of the types of literature found in the Bible, the historical and religious context in which the literature was developed and an extensive reading of the two testaments. This course is also offered as ENGL 175.

**Schedule Description:** This course covers The English Bible as literature and as religion including an examination of the types of literature found in the Bible, the historical and religious context in which the literature was developed and an extensive reading of the two testaments. This course is also offered as ENGL 175.

**Effective Date: FA10**

**Rationale:** Content Review

| <b>COURSE ID</b> | <b>COURSE TITLE</b> |
|------------------|---------------------|
| <b>SPAN 102</b>  | COLLEGE SPANISH II  |

**Catalog Description:** In this course students continue to develop conversational, reading and writing skills in Spanish with emphasis on past tense verbs, grammar, vocabulary expansion and the culture of Spanish speaking countries.

**Schedule Description:** In this course students continue to develop conversational, reading and writing skills in Spanish with emphasis on past tense verbs, grammar, vocabulary expansion and the culture of Spanish speaking countries.

**Effective Date: FA10**

**Rationale:** Content Review

Curriculum Meetings: 04-27-09; 05-11-09

Conjoint Meeting: 05-15-09

Board of Trustees Meeting: June 11, 2009



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| <b>MODIFIED COURSES</b> |
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| <b>COURSE ID</b>  | <b>COURSE TITLE</b>                  |
|-------------------|--------------------------------------|
| <b>WAREHS 020</b> | INTRODUCTION TO WAREHOUSE OPERATIONS |

**Catalog Description:** This course is designed to introduce students to warehouse operations, the objectives of warehousing, software information systems used in warehousing, and warehouse safety. In the laboratory part of the course, students will be exposed to practical activities in a functioning warehouse. Upon completion of the course, students should be well prepared to enter the field of warehousing, distribution, or logistics.

**Schedule Description:** This course is an introduction to warehouse operations covering the objectives of warehousing, software information systems used in warehousing, and warehouse safety.

**Effective Date: FA10**

**Rationale:** Content Review

| <b>COURSE ID</b>  | <b>COURSE TITLE</b>                  |
|-------------------|--------------------------------------|
| <b>WAREHS 021</b> | FORKLIFT OPERATION AND CERTIFICATION |

**Catalog Description:** This course provides training in forklift and other industrial powered trucks typically used in the warehousing and distribution industries. Training covers operation, inspection, basic maintenance and safety. Training is provided in accordance with Cal/OSHA standards, and upon successful completion of the course, the student will receive certification in accordance with Cal/OSHA to operate Sitdown Counterbalance Forklifts and Narrow Aisle Order Pickers.

**Schedule Description:** This course provides training in forklift and other industrial powered trucks typically used in the warehousing and distribution industries. Training covers operation, inspection, basic maintenance and safety. Training is provided in accordance with Cal/OSHA standards, and upon successful completion of the course, the student will receive certification in accordance with Cal/OSHA to operate Sitdown Counterbalance Forklifts and Narrow Aisle Order Pickers.

**Effective Date: FA10**

**Rationale:** Content Review

| <b>COURSE ID</b> | <b>COURSE TITLE</b>               |
|------------------|-----------------------------------|
| <b>WST 146</b>   | WASTEWATER TREATMENT OPERATIONS I |

**Course ID:** WST 091

**Course Title:** WATER TREATMENT I

**Prerequisite:** MATH 942 or eligibility for MATH 952 as determined by SBVC assessment process

Departmental Advisory: WST 081

**Catalog Description:** This is an introductory course in wastewater treatment. The course covers material included in the State Water Resources Control Board (SWRCB) grade I certification exam. (Formerly WST 146)

**Schedule Description:** This is an introductory course in wastewater treatment. The course covers material included in the State Water Resources Control Board (SWRCB) grade I certification exam. (Formerly WST 146)

**Transfer Status:** Non-Transferrable

**Effective Date: FA10**

**Rationale:** The entire wastewater curriculum was rewritten to align with the state licensing examination. This course was created to prepare students to take the beginning level licensing exam in wastewater treatment offered by the State Water Resources Control Board.

Curriculum Meetings: 04-27-09; 05-11-09

Conjoint Meeting: 05-15-09

Board of Trustees Meeting: June 11, 2009

## DISTRIBUTED EDUCATION

|           |             |
|-----------|-------------|
| ACAD 010  | 100% ONLINE |
| ENGL 075  | 100% ONLINE |
| ENGL 175  | 100% ONLINE |
| MATH 108  | 100% ONLINE |
| RELIG 175 | 100% ONLINE |
| SPAN 102  | 100% ONLINE |
| WST 091   | 100% ONLINE |
| WST 092   | 100% ONLINE |
| WST 093   | 100% ONLINE |

### **Effective Date: FA10**

**Rationale:** One of the planning themes of San Bernardino Valley College (SBVC) is access. For career technical courses, the issue of scheduling is crucial. Students working the night shift can only take class in the morning while those working traditional day schedules can only take evening classes. Given these variables and difficult schedules, students need the flexibility of time that an online class affords. An asynchronous online class allows students to study when their schedules allow and where they have the space and materials to do so effectively. The online delivery method of these courses supports the mission of SBVC by providing access to education to a diverse community of learners who find themselves in a community with complicated lives and difficult and demanding schedules and responsibilities

## DELETE COURSES

### **BUSCAL 200**

#### **ECON 285**

### **Effective Date: FA09**

**Rationale:** Courses no longer offered.

### **BUSCAL 208**

### **Effective Date: FA10**

**Rationale:** Course no longer offered.

### **HIST 223**

### **Effective Date: FA09**

**Rationale:** Course will be consolidated into HIST 222.

### **WST 143**

### **WST 147**

### **Effective Date: FA10**

**Rationale:** Courses no longer part of a degree or certificate.

Curriculum Meetings: 04-27-09; 05-11-09

Conjoint Meeting: 05-15-09

Board of Trustees Meeting: June 11, 2009

## NEW CERTIFICATES

### WATER TREATMENT Certificate

This is a mini-certificate in water treatment which prepares the students for an entry level position in water treatment plants.

|  |                                      | <b>Units</b>   |
|--|--------------------------------------|----------------|
| CHEM 110   | Environmental and Consumer Chemistry | 3              |
| WST 052  | Water Technology Math                | 3              |
|  | <b>or</b>                            |                |
| WST 052A   | Water Technology Math I              | 1              |
|  | <b>and</b>                           |                |
| WST 052B   | Water Technology Math II             | 1              |
|  | <b>and</b>                           |                |
| WST 052C   | Water Technology Math III            | 1              |
|  | <b>or</b>                            |                |
| <b>Eligibility for MATH 090 as determined by SBVC assessment process</b> |                                      |                |
|  | <b>and</b>                           |                |
| WST 071  | Water Treatment I                    | 3              |
| WST 072  | Water Treatment II                   | 3              |
| WST 073  | Water Treatment III                  | 3              |
| <hr/> <b>Total Units</b>   |                                      | <b>12 - 15</b> |

#### **Effective Date: FA10**

**Rationale:** This mini-certificate will provide an avenue to enter the field of water treatment. The Water Supply Technology advisory board recommended a series of mini-certificates with emphasis on special areas within water supply technology. This certificate emphasizes skills required of a Water Treatment Operator.

## MODIFIED CERTIFICATES

### **GENERAL WAREHOUSING Certificate**

This certificate is designed to provide students with the fundamentals for entry-level employment in the warehousing field, including overall warehousing and distribution operations, software systems, safety issues, forklifts and other industrial powered trucks. Training covers operation, inspection, and basic maintenance. Upon successful completion of WAREHS 021, students will receive certification in accordance with Cal/OSHA to operate forklifts. Students working for certificates must have a basic knowledge of arithmetic, reading and writing in order to learn and work in the occupations they select.

#### **REQUIRED COURSES:**

|            |                                      | <b>Units</b> |
|------------|--------------------------------------|--------------|
| WAREHS 020 | Introduction to Warehouse Operations | 4            |
| WAREHS 021 | Forklift Operation and Certification | 1            |

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#### **Total Units**

**5**

*Recommended High School Preparation: General courses in English, math and computer literacy are recommended.*

**Effective Date: FA10**

**Rationale:** Content Review; Description change.

Curriculum Meetings: 04-27-09; 05-11-09

Conjoint Meeting: 05-15-09

Board of Trustees Meeting: June 11, 2009

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| <b>MODIFIED CERTIFICATES</b> |
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### **WATER SUPPLY TECHNOLOGY Certificate**

This certificate is designed to prepare students with the necessary knowledge and skills to obtain entry-level employment in the water supply technology field. [Note: the Water Supply Technology Certificate is not equivalent to the State License in Water Supply Distribution, Treatment or Wastewater Treatment]. Work Experience WST 098 is highly recommended if student is not currently employed in the field.

**REQUIRED COURSES:**

|  |                                      | <b>Units</b> |
|--|--------------------------------------|--------------|
| CHEM 110   | Environmental and Consumer Chemistry | 3            |
| CIT 031  | Business English                     | 3            |
|  | <b>or</b>                            |              |
| ENGL 015   | Preparation for College Writing      | 4            |
| WST 052  | Water Technology Math                | 3            |
|  | <b>or</b>                            |              |
| WST 052A   | Water Technology Math I              | 1            |
|  | <b>and</b>                           |              |
| WST 052B   | Water Technology Math II             | 1            |
|  | <b>and</b>                           |              |
| WST 052C   | Water Technology Math III            | 1            |
|  | <b>or</b>                            |              |
| <b>Eligibility for MATH 090 as determined by SBVC assessment process</b> |                                      |              |
| WST 074  | Water/Wastewater Analysis            | 2            |

**24 units from the following Water Supply Technology Courses:**

|         |                          | <b>Units</b> |
|---------|--------------------------|--------------|
| WST 061 | Water Distribution I     | 3            |
| WST 062 | Water Distribution II    | 3            |
| WST 063 | Water Distribution III   | 3            |
| WST 071 | Water Treatment I        | 3            |
| WST 072 | Water Treatment II       | 3            |
| WST 073 | Water Treatment III      | 3            |
| WST 081 | Wastewater Collection I  | 3            |
| WST 082 | Wastewater Collection II | 3            |
| WST 091 | Wastewater Treatment I   | 3            |
| WST 092 | Wastewater Treatment II  | 3            |
| WST 093 | Wastewater Treatment III | 3            |

**One course from this list of RECOMMENDED COURSES:**

|         |   | <b>Units</b> |
|---------|---|--------------|
| CIT 101 | Introduction to Computer Literacy       | 3            |
| CIT 102 | Advanced Computer Literacy              | 3            |
| WST 098 | Water Supply Technology Work Experience | 1 - 4        |

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**Total Units**

**33 - 39**

**Effective Date: FA10**

**Rationale:** The Water Technology advisory board recommended this certificate.

Curriculum Meetings: 04-27-09; 05-11-09

Conjoint Meeting: 05-15-09

Board of Trustees Meeting: June 11, 2009