

Water/Wastewater Treatment - Wastewater Treatment

CERTIFICATE OF ACHIEVEMENT (CA)

REQUIRED CREDITS: 31

DEGREE CODE: WWTWAS-CT

**DESCRIPTION**

This program prepares students for a career in water and/or wastewater treatment maintenance. Students learn to maintain and operate the machinery used in facilities for the treatment of water supplies in urban areas and/or for wastewater treatment that is released back into the environment.

**STUDENT LEARNING OUTCOMES**

- Describe the fundamentals of water and/or wastewater treatment.
- Identify laws and regulations that apply to water and/or wastewater treatment.
- Differentiate the various treatment methodologies and technologies applicable to water and/or wastewater treatment.
- Explain pump operation and maintenance for water and/or wastewater treatment operation.

**PLEASE NOTE** - The courses listed below may require a prerequisite or corequisite. Read course descriptions before registering for classes. All MATH and ENG courses numbered 01-99 must be completed before reaching 30 total college-level credits. No course under 100-level counts toward degree completion.

**GENERAL EDUCATION REQUIREMENTS (3 CREDITS)**

**COMMUNICATIONS (3 credits)**

Required: COM 115 Applied Communication

**SPECIAL PROGRAM REQUIREMENTS (28 CREDITS)**

**CORE REQUIREMENTS (28 credits)**

WWT 101B	Wastewater Treatment I	3
WWT 102B	Wastewater Treatment II	3
WWT 115B	Water/Wastewater Mathematics I	3
WWT 120B	Pump Operation and Maintenance	3
WWT 201B	Wastewater Treatment III	3
WWT 215B	Water/Wastewater Mathematics II	3
WWT 220B	Water Quality Analysis	4
WWT 225B	Wastewater Collection Systems	3
WWT 230B	Current Issues	3
<b>Choose one from the following (0-3 credits)</b>		
IS 100B	Core Computing Competency	0
IS 101	Introduction to Information Systems	3

Computation included in WWT 115B

Human Relations included in WWT 230B

**FULL-TIME STUDENT DEGREE PLAN**

*Add more semesters to modify this plan to fit part-time student needs.*

	<b>Credits</b>
<b>FIRST SEMESTER</b>	
COM 115 Applied Communication	3
WWT 101B Wastewater Treatment I <sup>1</sup>	3
WWT 120B Pump Operation and Maintenance <sup>1</sup>	3
WWT 220B Water Quality Analysis <sup>2</sup>	4
<b>TOTAL CREDITS</b> .....	<b>13</b>
<b>SECOND SEMESTER</b>	
WWT 115B Water/Wastewater Mathematics <sup>3</sup>	3
WWT 225B Wastewater Collection Systems <sup>4</sup>	3
WWT 230B Current Issues <sup>5</sup>	3
WWT 102B Wastewater Treatment II <sup>5</sup>	3
<b>TOTAL CREDITS</b> .....	<b>12</b>
<b>THIRD SEMESTER</b>	
WWT 215B Water/Wastewater Mathematics <sup>1</sup>	3
WWT 201B Wastewater Treatment III <sup>6</sup>	3
IS 100B or IS 101	0-3
<b>TOTAL CREDITS</b> .....	<b>6-9</b>
<b>DEGREE PLAN TOTAL CREDITS</b> .....	<b>31-34</b>

<sup>1</sup>This course offered in the Fall only.

<sup>2</sup>This course offered in the Fall only; prereq of WWT 102B and WWT 115B.

<sup>3</sup>This course offered in the Spring only; coreq of Math 104B and prereq of WWT 101B or 105B.

<sup>4</sup>This course offered in the Spring only; prereq of WWT 215B.

<sup>5</sup>This course offered in the Spring only.

<sup>6</sup>This course offered in the Fall only; prereq of WWT 102B.

- NOTE**
- Course numbers with the “B” suffix may be non-transferable for a NSHE baccalaureate degree.
  - Course numbers with the “H” suffix are designated Honors-level courses and can be used to fulfill equivalent general education requirements. For more information visit [www.csn.edu/honors](http://www.csn.edu/honors).
  - In no case, may one course be used to meet more than one requirement except for the Values and Diversity general education requirement (only AA, AS, and AB degrees) which may be used to fulfill the corresponding general education or emphasis requirement.
  - Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.

