

# Water/Wastewater Treatment - Wastewater Treatment

ASSOCIATE OF APPLIED SCIENCE DEGREE (AAS)

REQUIRED CREDITS: 60

DEGREE CODE: WWTWAS-AAS

## DESCRIPTION

This program prepares students for a career in water and/or wastewater treatment maintenance. Students learn to maintain and operate machinery and equipment used in facilities for the treatment of water supplies in urban areas and/or for wastewater treatment that is released back into the environment. Academic skills emphasizing math, science and human relations are stressed to prepare students to meet challenges common in the workplace.

## STUDENT LEARNING OUTCOMES

- Describe the fundamentals of water and/or wastewater treatment.
- Identify the 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 (22 CREDITS)

### MATHEMATICS (3 credits)

MATH 104B or above (except MATH 115B, 122, 123)

### ENGLISH COMPOSITION (3-5 credits)

See AAS policy p. 48 for courses

### COMMUNICATIONS (3 credits)

Required: COM 115 Applied Communication

### HUMAN RELATIONS (3 credits)

ALS 101 or MGT 100B

### NATURAL SCIENCE (3 credits)

EGG 131 or ENV 101

### FINE ARTS/HUMANITIES/SOCIAL SCIENCES (3 credits)

PSY 101 or SOC 101 or SPAN 101B

### U.S. AND NEVADA CONSTITUTIONS (4-6 credits)

Recommended: PSC 101 Introduction to American Politics

## SPECIAL PROGRAM REQUIREMENTS (38 CREDITS)

### CORE REQUIREMENTS (38 credits)

AIT 205B	Industry Customer Service	1
WWT 101B	Wastewater Treatment I	3
WWT 102B	Wastewater Treatment II	3
WWT 103B	Environmental Laws and Regulations	3
WWT 110B	Introduction to Hazardous Materials Management	3
WWT 115B	Water/Wastewater Mathematics I	3
WWT 120B	Pump Operation and Maintenance	3
WWT 201B	Wastewater Treatment III	3
WWT 210B	Industrial Pretreatment Inspections	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

### Choose one from the following (0-3 credits)

IS 100B	Core Computing Competency	0
IS 101	Introduction to Information Systems	3

## FULL-TIME STUDENT DEGREE PLAN

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

FIRST SEMESTER	Credits
Complete Mathematics (see courses this page)	3
Complete AAS English Composition p. 48	3-5
WWT 110B Introduction to Hazardous Materials Management	3
WWT 120B Pump Operation and Maintenance	3
WWT 101B Wastewater Treatment I	3
<b>TOTAL CREDITS</b> .....	<b>15-17</b>

SECOND SEMESTER	Credits
COM 115 Applied Communication	3
EGG 131 or ENV 101	3
WWT 103B Environmental Laws and Regulations	3
WWT 115B Water/Wastewater Mathematics I	3
WWT 102B Wastewater Treatment II	3
<b>TOTAL CREDITS</b> .....	<b>15</b>

THIRD SEMESTER	Credits
AIT 205B Industry Customer Service	1
IS 100B or IS 101	0-3
<b>TOTAL CREDITS</b> .....	<b>1-4</b>

FOURTH SEMESTER	Credits
ALS 101 or MGT 100B	3
WWT 210B Industrial Pretreatment Inspections	3
WWT 215B Water/Wastewater Mathematics II	3
WWT 220B Water Quality Analysis	4
WWT 201B Wastewater Treatment III	3
<b>TOTAL CREDITS</b> .....	<b>16</b>

FIFTH SEMESTER	Credits
PSY 101 or SOC 101 or SPAN 101B	3
PSC 101 Introduction to American Politics	4
WWT 225B Wastewater Collection Systems	3
WWT 230B Current Issues	3
<b>TOTAL CREDITS</b> .....	<b>13</b>

**DEGREE PLAN TOTAL CREDITS**..... **60-65**

- 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.

