

Water and Wastewater Technology Department

DEGREES

Water and Wastewater Technology (AS)

CERTIFICATES OF ACHIEVEMENT

Water and Wastewater Technology

COURSES

WATR (Water and Wastewater Technology)

CONTACT INFORMATION:

School of Mathematics and Sciences

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Administrative Assistants:

Mathematics: Kayla Kaywood

Sciences: Kelsi Mundell

P.A.C.E. - INDUSTRIAL AND APPLIED TECHNOLOGY - A PATHWAY FOR ACADEMIC AND CAREER EXCELLENCE AT SOLANO COMMUNITY COLLEGE

ARE YOU THE KIND OF PERSON WHO...

- ...desires to work hands-on with objects, machines, tools, plants, or animals?
- ...enjoys work and play outside, including use your physical or athletic abilities?
- ...likes to follow directions to organize, plan and complete a project or task?
- ...is interested in attaining employment as soon as possible?

P.A.C.E. - SCIENCE, TECHNOLOGY, ENGINEERING, AND MATHEMATICS - A PATHWAY FOR ACADEMIC AND CAREER EXCELLENCE AT SOLANO COMMUNITY COLLEGE

ARE YOU THE KIND OF PERSON WHO...

- ...desires to observe, learn, analyze, evaluate, or solve problems?
- ...enjoys to question and explore physical or biological happenings?
- ...likes to work hands-on with objects, machines, tools, plants, or animals?
- ...is interested in math and/or thinking analytically to solve complex problems?

Water and Wastewater Technology

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Certificate of Achievement and Associate in Science

Program Description

A study of the principles of water and wastewater disposal and purification including municipal and industrial wastewater collection and treatment. The program will satisfy most of the requirements for certification of water and wastewater treatment personnel.

The Certificate of Achievement can be obtained upon completion of the 25-32-unit major. The Associate in Science can be obtained upon completion of the 25-32 unit major, General Education, and electives as needed to complete a minimum of 60 units. All courses for this major must be completed with a minimum grade of C or a P if the course is taken on a Pass/No Pass basis.

Program Outcomes

Students who complete the Water and Wastewater Technology Certificate of Achievement/Associate in Science will be able to

1. Attain certification of plant operators.
2. Understand treatment methods and technology.
3. Understand technology laws and regulations.

REQUIRED CORE COURSESUnits

WATR 100 Wastewater Treatment I 4

WATR 101 Basic Chemistry for Water
and Wastewater 4
or

WATR 102 Sanitary Chemistry 4

WATR 104 Water Treatment I 3

WATR 106 Instrumentation and Controls 3

WATR 107 Mathematics of Water and
Wastewater Treatment 4

Two courses from Specialty Courses 4-5

Select Option 1, 2 or 3 3-9

Required Major Total Units..... 25-32

Specialty Courses (select two courses)..... Units

WATR 105 Wastewater Treatment II 3

WATR 108 Water Treatment II 2

WATR 120 Distribution Systems Maintenance 2

WATR 121 Collection Systems Maintenance 2

Select from the following options:

OPTION 1

BIOT 160 Basic Concepts/Methods in
Biotechnology 4

OPTION 2

BIO 014 Principles of Microbiology 4
One course from List A

List A

CHEM 010 Intermediate Chemistry 4

CHEM 051 Chemistry for the Health Sciences 5

CHEM 001 General Chemistry I..... 5

OPTION 3

WATR 103 Biological Principles of Water
and Wastewater 3

This is a Gainful Employment Program. For additional information, please visit
http://www.solano.edu/gainful_employment/ and select "Water & Wastewater Technology."