WATER AND WASTEWATER SYSTEMS TECHNOLOGY

Department: Construction, Design, and Manufacturing
Department Chair: Mr. William (Bill) Elarton, ROOM SQ-122
(213) 763-3700, cdm@lattc.edu

Wastewater Systems Technology

<table>
<thead>
<tr>
<th>Award Title</th>
<th>Award Type</th>
<th>Grad. Plan</th>
<th>Required Course Units</th>
<th>Major Elective Units</th>
<th>Total Major Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water System Technology</td>
<td>A.S.</td>
<td>Plan A</td>
<td>22</td>
<td>-</td>
<td>22</td>
</tr>
<tr>
<td>Supply Water Technology</td>
<td>C</td>
<td>22</td>
<td>-</td>
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At least 60 degree applicable units (total major units and Plan A units) are required to earn an Associate degree.

For additional related degrees and certificates, refer to Plumbing.

PROGRAM OVERVIEW

Projected retirements of existing operators will fuel this demand as well. The net result of these shifts will be increased openings for personnel in all areas: plant operations, distribution/collection field maintenance, administration, customer service, line supervision, meter readers, engineers, and plant maintenance.

The Water Systems Technology programs at LATTC offers students a choice of two concentrations within water systems industry:

- **WASTEWATER OPTION** offers courses focusing on preliminary, primary, secondary, and tertiary treatment systems as well as disinfection methods, solids treatment, and solids and effluent disposal practices.

- **SUPPLY WATER OPTION** offers courses focused on the operation and design of water systems, wells, pumps and meters; water treatment for potable water; and technical phases of automatic controls, including power and code considerations.

PROGRAM LEARNING OUTCOMES (PLOs)

Upon completion of the Degree/Certificate program, students are able to:

- Have the basic knowledge of the sources of wastewater, its collection and available treatment technology.
- Knowledge of and understanding of factors affecting treatment of wastewater.
- Basic knowledge of the Regulations governing wastewater treatment and organizations involved.
- Basic knowledge of the wastewater treatment processes and process control strategies.
- Knowledge wastewater math as it applies to process control.

WASTEWATER SYSTEMS TECHNOLOGY

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<th>Associate in Science Degree</th>
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<td>Major Units: 21</td>
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Requirements for the Associate in Science degree in Wastewater Systems Technology may be met by completing 21 units of Required Courses with a "C" or better, along with general education courses meeting Plan A graduation requirements. Information on the Plan B requirements may be found in the catalog under Graduation/Transfer Requirements.

In the State of California, there are five operator grade levels of profession in operating and maintaining publicly owned wastewater treatment facilities. Each grade level requires passing an examination administered by the State of California, after meeting qualifying experience and educational requirements. An Associates degree and 6 years of performance of an Operator Duty while holding a certificate, qualifies a person to be promoted to grade five level.

**REQUIRED COURSES**

You can enroll in these classes by going to http://backpack.lattc.edu

For additional information consult a LATTC college counselor.
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WATER SYSTEM TECHNOLOGY: SUPPLY WATER TECHNOLOGY

Associate in Science Degree
Major Units: 22

Requirements for the Associate in Science degree in Water Systems Technology: Supply Water Technology may be met by completing 22 units of Required Courses along with general education courses meeting Plan A graduation requirements. Information on the Plan A requirements may be found in the catalog under Graduation/Transfer Requirements.

By fulfilling the program requirements, students are prepared for certification by the American Water Works Association (AWWA) as well as the State Department of Health. Students will also have the background to advance in the Supply Water Industry.

PROGRAM LEARNING OUTCOMES (PLOs)

Upon completion of the Degree/Certificate program, students are able to:

• Have the basic knowledge of the surface water and groundwater sources and be able to identify characteristics of different sources of water.
• Knowledge of and understanding of factors affecting what it takes to bring water from source to the tap (environmental issues, engineering studies, construction, etc.)
• Basic knowledge of the Safe Drinking Water Act Regulations.
• Basic knowledge of the water treatment processes.
• Knowledge of the hydraulics of the water distribution system and functions of the elements of the distribution system (reservoirs, pumps, pipes, valves, hydrants, meters, etc.)
• Knowledge of the operation of the water treatment and the distribution systems and the skills and knowledge to take the State Operator Certification Exams and become a water distribution or treatment operator.

USEFUL LINKS

LATTC Catalog
http://college.lattc.edu/catalog/

LATTC Financial Aid Office
http://college.lattc.edu/financialaid/

LATTC Counseling Department
http://college.lattc.edu/counseling/

Graduation Plan A
http://college.lattc.edu/planA

Graduation Plan B
http://college.lattc.edu/planB

Construction, Design, and Manufacturing Department
http://college.lattc.edu/cdm

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