

The Water Quality Management Technology Program is a comprehensive study of all levels and areas of operations in the water and wastewater industry. You will be introduced to the many functions and career opportunities within the field. You can then establish an educational program that best fits your goals and interests.

If you are working in the industry, you can obtain higher education and skill levels for higher operator certification by attending specific courses offered. A degree in water quality management technology will give you all the instruction necessary to work in supervisory and management positions.

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## Degree: Associate of Applied Science

### Water Quality Management

### Certificates:

**Education and Experience**  
**Introduction to Water Treatment**  
**Introduction to Wastewater Treatment**  
**Mathematics in Water Quality**  
**Laboratory Analysis**  
**Distribution and Collection Systems**  
**Advanced Water Treatment Certification**  
**Advanced Wastewater Treatment**  
**Certification**  
**Source Control and Water Audit**

## AAS Degree

### Water Quality Management

Required Courses	Credits
WQM 100 Introduction to Water Quality Management	3
WQM 105 Specific Calculations for Water Quality Management	4
WQM 119 Basic Water Quality Analysis	4
WQM 120 Water Quality Equipment Maintenance	4
WQM 126 Safety in the Water Quality Industry	3
WQM 200 Hydraulics for Water Quality Management	4
WQM 206 Design Interpretation of Water Quality Systems	4

WQM 216 Biological and Bacteriological Water Quality Analysis	4
WQM 217 Disinfection Techniques in Water Quality Systems	4
<b>General Education Courses (See WQM Faculty Advisor)</b>	<b>12</b>
<b>Faculty advisor-approved WQM electives</b>	<b>12</b>
<b>Required Electives</b>	
CIS 118 Introduction to PC Applications	3
GIS 101 Introduction To Geographic Information Systems	3
<b>Total Credits</b>	<b>64</b>

## Water Quality Certificates:

Students completing this program possess the skills and knowledge for entry level positions within the industry in your specific area of interest.

### Certificate

#### Education and Experience

Required Courses	Credits
WQM 126 Safety in the Water Quality Industry	3
WQM 280 Internship	3-6
<b>Total Credits</b>	<b>6-9</b>

### Certificate

#### Introduction to Water Treatment

Required Courses	Credits
WQM 100 Introduction to Water Quality Management	3
WQM 160 Managing the Global Water Supply	3
<b>Total Credits</b>	<b>6</b>

### Certificate

#### Introduction to Wastewater Treatment

Required Courses	Credits
WQM 100 Introduction to Water Quality Management	3
WQM 123 Water Reuse Systems	3
<b>Total Credits</b>	<b>6</b>

### Certificate

#### Mathematics in Water Quality

Required Courses	Credits
WQM 105 Specific Calculations for Water Quality Management	4
WQM 200 Hydraulics	4
<b>Total Credits</b>	<b>8</b>

## **Certificate**

### **Laboratory Analysis**

<b>Required Courses</b>	<b>Credits</b>
WQM 119 Basic Water Analysis	4
WQM 216 Bacteriological/Biological Water Analysis	4
<b>Total Credits</b>	<b>8</b>

## **Certificate**

### **Distribution and Collection Systems**

<b>Required Courses</b>	<b>Credits</b>
WQM 109 Water Distribution	3
WQM 118 Wastewater Collection Systems	3
<b>Total Credits</b>	<b>6</b>

## **Certificate**

### **Advanced Water Treatment Certification**

<b>Required Courses</b>	<b>Credits</b>
WQM 124 Water Certification Review for C and D	3
WQM 224 Water Treatment Review for A and B	3
<b>Total Credits</b>	<b>6</b>

## **Certificate**

### **Advanced Wastewater Treatment Certification**

<b>Required Courses</b>	<b>Credits</b>
WQM 125 Wastewater Cert Review for C and D	3
WQM 225 Wastewater Treatment Review A and B	3
<b>Total Credits</b>	<b>6</b>

## **Certificate**

### **Source Control and Water Audit**

<b>Required Courses</b>	<b>Credits</b>
WQM 160 Source Water Management	3
WQM 165 Water Law	3
WQM 212 Drinking Water Regulations	4
<b>Total Credits</b>	<b>10</b>