

# Water Quality Technology: Environmental Health

## Water Distribution

Code	Title	Credits
AGTE 206	Applied Water Hydraulics	3
M 105	Contemporary Mathematics	3
TSCI 110	Intro to Water & Wastewater	4
TSCI 112	Wastewater Lagoon Systems	1
TSCI 114	Sm Public Drink Systems	1
TSCI 117	Pumps/Motor Operation	1
TSCI 205	Distribution Systems	3
COMX 115	Intro to Interpersonal Communc	3
TSCI 119	Valves and Hydrants	1
TSCI 208	Water & Wastewater School	2
TSCI 210	Backflow Prevention	3
WRIT 122	Business Writing	3
Advisor Approved Electives		3
<b>Total Credits</b>		<b>31</b>

## Wastewater Treatment

Code	Title	Credits
AGTE 206	Applied Water Hydraulics	3
COMX 115	Intro to Interpersonal Communc	3
M 105	Contemporary Mathematics	3
TSCI 110	Intro to Water & Wastewater	4
TSCI 111	Env. Health/Safety Water/Waste	1
TSCI 112	Wastewater Lagoon Systems	1
TSCI 113	On-site Wastewater Systems	1
TSCI 115	Industrial Wastewater Systems	1
TSCI 208	Water & Wastewater School	2
TSCI 210	Backflow Prevention	3
TSCI 231	Wastewater Processes	3
TSCI 232	Wastewater Processes Lab	2
WRIT 122	Business Writing	3
<b>Total Credits</b>		<b>30</b>

## Water Treatment

Code	Title	Credits
AGTE 206	Applied Water Hydraulics	3
COMX 115	Intro to Interpersonal Communc	3
M 105	Contemporary Mathematics	3
TSCI 110	Intro to Water & Wastewater	4
TSCI 111	Env. Health/Safety Water/Waste	1
TSCI 114	Sm Public Drink Systems	1
TSCI 208	Water & Wastewater School	2
TSCI 210	Backflow Prevention	3
TSCI 230	Intro to Groundwater Concepts	3
TSCI 233	Water Treatment Processes	3
TSCI 234	Water Treatment Processes Lab	2

WRIT 122	Business Writing	3
<b>Total Credits</b>		<b>31</b>

## Wastewater Collection

Code	Title	Credits
AGTE 206	Applied Water Hydraulics	3
M 105	Contemporary Mathematics	3
TSCI 110	Intro to Water & Wastewater	4
TSCI 111	Env. Health/Safety Water/Waste	1
TSCI 112	Wastewater Lagoon Systems	1
TSCI 116	Wastewater Coll Systems	3
TSCI 117	Pumps/Motor Operation	1
TSCI 208	Water & Wastewater School	2
TSCI 210	Backflow Prevention	3
COMX 115	Intro to Interpersonal Communc	3
WRIT 122	Business Writing	3
<b>Total Credits</b>		<b>27</b>

## Mission Statement

MSU-Northern's Water Quality technology programs offer unique training for individuals interested in water quality field. Apart from water treatment, other professional career options are available in the environmental and ecological areas with various private, public, state and federal entities.

## Learning Outcomes for Water Quality Technology

- Provides students with the fundamental knowledge of maintaining a safe and healthful work environment.
- Introduces students to the current topics of importance in water quality and treatment.
- Provides students with the basic knowledge of wastewater lagoon systems.

## Learning Outcomes for Wastewater Treatment

- Students will gain knowledge in hydraulics and back flow.
- Provides student with fundamental knowledge of wastewater treatment systems.
- Introduces student to the current topics of importance in water quality and treatment.

## Learning Outcomes for Water Treatment

- Provides students with an introduction to basic concepts governing groundwater; focused on the use of ground water as a source for municipal supply.
- Provides students with a basic knowledge of drinking water treatment systems.
- Provides students with an introduction to water treatment processes.

## Learning Outcomes for Wastewater Collection

- Students will gain knowledge in hydraulics and back flow.
- Provides students with fundamental knowledge of wastewater treatment systems.
- Introduce student to current topics of importance to the field of water and wastewater operations.