

Water Resource Management

2018-2019 Catalog

Award Granted Upon Completion: Associate in Applied Science in Water Resource

Credits/Contacts Required: 69/78

Major code: 03/340

Management

CIP Code: 150506

Description

The Water Resource Management Program is designed for providing specialized training in water and wastewater treatment theory and application to both entry-level personnel and those already in the field. Persons who complete degree requirements and gain appropriate work experience may qualify to progress through certification to the highest grade licensure in municipal and industrial water and wastewater treatment.

General Education Requirements – Min 18 credits

		<u>Cr</u>
ENGL-101	Rhetoric & Composition	3
ENGL-145	Technical Report Writing	3
MATH-105	Intermediate Algebra *	4
MATH-106	-OR- Tech Algebra & Trig I *	
CHEM-108	Technical Chemistry **	5
POLI-111	American Government -OR-	3
POLI-262	State & Local Government	

Requirements – Min 51 credits

		<u>Cr</u>
ELEC-145	Basic Process Control	4
GIS -201	Intro to Geographic Info Systems	3
WATR-110	Wastewater Operations & Mgmt.	4
WATR-120	Water Operations & Management	4
WATR-150	Team Project Course	2
WATR-220	Industrial Solutions	3
WATR-230	Aquatic Evaluations & Bacteriology	3
WATR-240	Environmental Analysis	5
WATR-250	Water Analysis & Techniques	5
WATR-255	Mechanical & Instrumentation	3
WATR-260	Current Issues for Managers	3
WATR-270	Water in Motion	4
WATR-272	Professional Field Experience (Water)	4
WATR-273	Professional Field Experience (Wastewater)	4
<u>OPTIONAL</u>		
CHEM-110	General Chemistry I**	5
CHEM-112	General Chemistry II **	5

- * MATH-106 and MATH-105 do not satisfy MTA.
 - Transfer students should take MATH-110, which will fulfill the math requirement.
 - Students will need to complete additional General Education requirements to satisfy MTA. See course catalog for additional information about the Michigan Transfer Agreement.
 - Students should also check with their transfer institution for the level of math required.

- ** Students planning to transfer into a Baccalaureate degree program are encouraged to satisfy the chemistry requirement by taking CHEM-110 and CHEM-112 instead of CHEM-108 because CHEM-108 is not transferrable in some cases. Students should check with their transfer institution.

Suggested Sequences Per Semester

		<u>Cr / Ct</u>
First Semester		
ENGL-101	Rhetoric & Composition	3/3
MATH-105	Intermediate Algebra -OR-	4/4
MATH-106	Technical Algebra & Trig I *	
WATR-110	Wastewater Operations & Mgmt.	4/4
WATR-260	Current Issues for Managers	3/3
		14/14
Second Semester		
CHEM-108	Technical Chemistry **	5/7
ENGL-145	Technical Report Writing	3/3
ELEC-145	Basic Process Control	4/4
WATR-120	Water Operations & Management	4/4
WATR-230	Aquatic Evaluations & Bacteriology	3/4
		19/22
Third Semester		
GIS -201	Intro to Geographic Info Systems	3/3
POLI-111	American Government -OR-	3/3
POLI-262	State & Local Government	
WATR-150	Team Project Course	2/3
WATR-240	Environmental Analysis	5/7
WATR-270	Water in Motion	4/4
		17/20
Fourth Semester		
WATR-220	Industrial Solutions	3/3
WATR-250	Water Analysis & Techniques	5/7
WATR-255	Mechanical & Instrumentation	3/4
WATR-272	Professional Field Exp. (Water)	4/4
WATR-273	Professional Field Exp. (Wastewater)	4/4
		19/22