WATER TECHNOLOGY - ASSOCIATE OF APPLIED SCIENCE

Doña Ana Community College 2026-2027 Catalog

(67-68 credits)

NOTE: For students who plan to continue at NMSU in pursuit of a BS in Environmental Science: It is recommended that MATH 1220G or MATH 1250G be taken to fulfill the Area II General Education requirement. It is also recommended that CHEM 1215G be taken in place of WATR 180 Water Chemistry and that CHEM 1225G be taken to fulfill the Area III General Education requirement. This will provide the most useful transfer credits when continuing at NMSU. Please see an Advisor for any question you have.

Students must earn a final grade of C- or better in all required WATR courses/Technical Requirements and achieve a cumulative grade-point average of at least 2.0. A grade of C- or better is required in ENGL 1110G Composition I and designated Mathematics courses.

Students must complete all University degree requirements, which include: General Education requirements and elective credits to total at least 67 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Prefix	Title	Credits
General Education		
Select one course from four of the following six content areas for a total of 12-14 credits [1, 2]		*12-14*
This degree requires courses from Area I; students must select three courses from the remaining areas to complete General Education requirements.		
Area I: Communication		
ENGL 1110G	Composition I [3]	
Area II: Mathematics		
Area III: Laboratory Sciences [2,3]		
Area IV: Social/Behavioral Sciences [2,3]		
Area V: Humanities [2,3]		
Area VI: Creative and Fine Arts [2,3]		
General Education Elective		
COMM 1115G	Introduction to Communication [3]	3
or COMM 1130G	Public Speaking	
Major Requirements		
Technical Requirements		
WATR 120	Introduction to Water Systems	3
WATR 130	Wastewater Collection and Basic Treatment Systems	3
WATR 140	Applied Water and Wastewater Math I	3
WATR 160	Systems Maintenance	4
WATR 175	Programmable Logic Controllers	2
WATR 182	Water Chemistry Analysis	1
WATR 190	Water and Wastewater Microbiology	3
WATR 192	Water and Wastewater Microbiological Analysis	1
WATR 200	Internship	3
WATR 220	Water Treatment Systems	3
WATR 222	Water Systems Operation	1
WATR 230	Advanced Wastewater Treatment	4
WATR 232	Wastewater Systems Operations	1
WATR 240	Advanced Water and Wastewater Math II	3
WATR 250	Municipal Systems Management	4
WATR 275	Certification Review	3
Choose one from the following:		3
WATR 180	Water Chemistry	
CHEM 1111	Foundations of Chemistry [3]	
CHEM 1120G	Introduction to Chemistry Lecture and Laboratory (non majors) [3]	
CHEM 1215G	General Chemistry I Lecture and Laboratory for STEM Majors (or any higher level CHEM course of 3 or more credits) [3]	
Select one from the following:		6
WATR 285 & WATR 287	High Purity Water Treatment Systems and Advanced Water Chemistry Analysis	
WATR 290 & WATR 292	Advanced Wastewater Microbiology and Chemistry and Advanced Wastewater Analysis	
Total Credits		**67-68**

1. Each course selected must be from a different area and students cannot take multiple courses in the same area.
2. See the General Education (https://catalogs.nmsu.edu/dona-ana/general-education-and-transfer-options/transfer-new-mexico-institutions/) section of the catalog for a full list of courses.
3. Courses are identical to those offered at New Mexico State University Las Cruces (main) Campus.

(67-68 credits)

A Suggested Plan of Study

The contents of this roadmap may vary depending on initial student placement in mathematics and English. This is only a suggested plan of study for students, and is not intended as a contract. Individual student academic plans may vary. Please contact your academic advisor to create a plan that works for you. Course availability may vary from fall to spring semester and may be subject to modification or change.

NOTE: Students must receive a final grade of C- or better in all required WATR courses/Technical Requirements and achieve a cumulative grade-point average of at least 2.0. A grade of C- or better is required in ENGL 1110G Composition I and designated Mathematics courses.

Students must complete all University degree requirements, which include: General Education requirements and elective credits to total at least 67 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Semester 1		Credits
WATR 120	Introduction to Water Systems	3
WATR 130	Wastewater Collection and Basic Treatment Systems	3
WATR 140	Applied Water and Wastewater Math I	3
WATR 160	Systems Maintenance	4
WATR 180	Water Chemistry	3
CHEM 1111	Foundations of Chemistry	

CHEM 1120G	Introduction to Chemistry Lecture and Laboratory (non majors)	
CHEM 1215G	General Chemistry I Lecture and Laboratory for STEM Majors (or any higher level CHEM course of 3 or more credits)	
WATR 182	Water Chemistry Analysis	1
	Credits	**17**
Semester 2		
Area I: Communications – English Composition Level 1		4
ENGL 1110G	Composition I	
Select one course from different NM General Education Areas III, IV, V, and VI. A total of 3 courses from different areas are required.		3-4
Area III: Laboratory Sciences		
Area IV: Social/Behavioral Sciences		
Area V: Humanities		
Area VI: Creative and Fine Arts		
WATR 175	Programmable Logic Controllers	2
WATR 190	Water and Wastewater Microbiology	3
WATR 192	Water and Wastewater Microbiological Analysis	1
WATR 220	Water Treatment Systems	3
WATR 222	Water Systems Operation	1
	Credits	**17-18**
Semester 3		
WATR 200	Internship (3-5 credits)	3
	Credits	**3**
Semester 4		
General Education Elective – Area I: Communications - Oral Communications		3
COMM 1115G	Introduction to Communication	
WATR 230	Advanced Wastewater Treatment	4
WATR 232	Wastewater Systems Operations	1
WATR 240	Advanced Water and Wastewater Math II	3
Choose one from the following:		6
WATR 285 & WATR 287	High Purity Water Treatment Systems and Advanced Water Chemistry Analysis	
WATR 290 & WATR 292	Advanced Wastewater Microbiology and Chemistry and Advanced Wastewater Analysis	
	Credits	**17**
Semester 5		
Select one course from different NM General Education Areas III, IV, V, and VI. A total of 3 courses from different areas are required.		3
Select one course from different NM General Education Areas III, IV, V, and VI. A total of 3 courses from different areas are required.		3
WATR 250	Municipal Systems Management	4
WATR 275	Certification Review	3
	Credits	**13**
	Total Credits	**67-68**