



Walla Walla Community College...

...Your Best Choice

Water Management

The Industry

Water is a resource that impacts our lives on a daily basis. Due to water shortages, today and in the future, management of this precious resource is critical. With heightened emphasis on environmental concerns, the demand on water supplies requires that old, inefficient practices and systems be updated or replaced. This notion is creating a demand for a broad range of irrigation and hydrological expertise. The industry is also experiencing a period of rapid technological advancement in labor saving and water conserving irrigation systems. Highly skilled technicians are required to design, install, operate, and maintain these new technologies.

Career Opportunities

- Water District Manager
- Designer/Specifier
- Conservation District Personnel
- Installation Foreman
- Service Technician
- Field Technician
- Wholesale/Retail Sales Personnel
- Irrigation Manager
- Consultant
- Contractor
- Water Auditor

WWCC's Degree Options

Associate in Applied Arts and Sciences (AAAS) Degree in Irrigation Technology:

Graduates are prepared for highly skilled entry-level positions within the industry and/or transferability to Washington State University.

Associate in Applied Arts and Sciences (AAAS) in Water Resources Technology:

A two year degree that prepares graduates for work within the industry. An **Irrigation Technology Certificate** is available upon completion of one year of study.

Graduates of this program have been highly recruited and job placement is exceptional.



For More Information

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Associate in Applied Arts and Sciences Degree in Water Management

This schedule lists courses required for degree completion but the actual order and specific coursework may vary depending on student placement, start date, and quarter. Please check with your advisor prior to any substitutions.

The required related instruction is noted in bold print. The letter in the parenthesis indicates which category of related instruction is represented by the given course as follows:
 (W)- Written Communications (O)- Oral Communications (R)- Human Relations
 (M)- Computation/Mathematics (J)- Job Seeking Skills (L)- Leadership

Year One AAAS in Irrigation Technology

Fall Quarter	Credits
EST 131, Principles of Electrical Theory ¹	5
WMGT 100, Orientation to Irrigation	3
WMGT 112, Irrigation Principles	5
WMGT 135, Culture of Water ²	3
OCSUP 106, Applied Mathematics I (M)	5
Quarter Total	21

Winter Quarter	Credits
WMGT 110, Lawn and Turf Irrigation	3
WMGT 141, Irrigation Troubleshooting	7
WMGT 143, Turf & Landscaping Troubleshooting	3
WMGT 230, Water & Energy Conservation ³	3
ENGR& 111, Engineering Graphics	4
CLS 180, Workforce Leadership Development (L)	2
Quarter Total	22

Spring Quarter	Credits
WMGT 191, Cooperative Work Experience ⁴	16
WMGT 192, Cooperative Seminar (L)	2
Quarter Total	18
CERTIFICATE TOTAL	61

Summer Quarter	Credits
WMGT 291, Cooperative Work Experience II ⁴	18
WMGT 292, Cooperative Seminar II (L)	2
Quarter Total	20
YEAR ONE TOTAL	81

Year Two

Fall Quarter	Credits
AGPR 201, Basic Soil Science	5
CET 223, Hydraulics	4
WMGT 204, Water Policy ²	3
WMGT 241, Advanced Irrigation Systems	5
OCSUP 103, Job Seeking Skills (J)	3
Quarter Total	20

Winter Quarter	Credits
EST 260, Introduction to the National Electrical Code	2
WMGT 220, Drip Irrigation ³	3
WMGT 221, Pump Applications	3
WMGT 225, Irrigation Design	6
CMST 102, Interpersonal Communications (O)	3
WRITE 100, Applied Writing (W)	3
Quarter Total	20
YEAR TWO TOTAL	40
TOTAL CREDITS	121

The following courses meet the related instructional requirements of the program (one class per category required):
 (O)- OCSUP 102, CMST& 220, CMST 102
 (J)- AGPR 100, BUS 292, OCSUP 103, PSYC 140
 (L)- BUS 192, POLS 125, WMGT 292, CLS 180
 (M)- BUS 112, MATH 050, OCSUP 106
 (R)- BUS 157, OCSUP 101, PSYC&100, PSYC 111, WMGT 192
 (W)- BUS 137, ENGL 097, ENGL& 101, WRITE 100, WRITE 110

¹ Students may substitute EST 132; Principles of Electrical AC Application for EST 131; Principles of Electrical Theory.
² WMGT 135: Cultures of Water is offered even years and WMGT 204: Water Policy is offered odd years. Students completing the one-year certificate may use either course.
³ WMGT 230, Water & Energy Conservation is offered even years and WMGT 220, Drip Irrigation is offered odd years. Students completing the one-year certificate may use either course.
⁴ AGPR 101; Introduction to Environmental Studies, may be substituted for 5 credits of Cooperative Work Experience.
 CIP:01.0197 EPC:130

Year One AAAS Water Resources Technology

Fall Quarter	Credits
WMGT 112, Irrigation Principles	5
WMGT 135, Culture of Water ¹	3
WMGT 139, Watershed Management	3
WRITE 100, Applied Writing (W)	3
Quarter Total	14

Winter Quarter	Credits
CET 250, GIS I	3
ENGR& 111, Engineering Graphics I	4
WMGT 230, Water & Energy Conservation ²	3
CLS 180, Workforce Leadership Development (L)	2
ELECTIVE ³	3
Quarter Total	15

Spring Quarter	Credits
BIO 130, Modern Ecology	5
CET 160, Elementary Surveying	6
CET 251, GIS II	3
OCSUP 108, Applied Mathematics II (M) ⁴	5
Quarter Total	19

Summer Quarter	Credits
WMGT 191, Cooperative Work Experience I	10
WMGT 192, Cooperative Seminar I (R)	2
Quarter Total	12
YEAR ONE TOTAL	60

Year Two

Fall Quarter	Credits
AGPR 113, Plant Science I	3
AGPR 201, Basic Soil Science	5
CET 223, Hydraulics	4
WMGT 204, Water Policy ²	3
OCSUP 103, Job Seeking Skills (J)	3
Quarter Total	18

Winter Quarter	Credits
CET 166, Introduction to Hydrology	3
WMGT 220, Drip Irrigation ³	3
WMGT 221, Pump Applications	3
WMGT 225, Irrigation Design	6
OCSUP 102, Oral Communications (O)	3
Quarter Total	18
YEAR TWO TOTAL	36
TOTAL CREDITS	96

The following courses meet the related instructional requirements of the program (one class per category required):
 (O)- OCSUP 102, CMST& 220, CMST 102
 (J)- OCSUP 103, PSYC 140, AGPR 100
 (L)- CLS 180
 (M)- OCSUP 108
 (R)- BUS 157, OCSUP 101, PSYC&100, PSYC 111, WMGT 192
 (W)- BUS 137, ENGL& 097, ENGL& 101, WRITE 100

¹ WMGT 135: Cultures of Water is offered even years and WMGT 204: Water Policy is offered odd years. Students completing the one-year certificate may use either course.
² WMGT 230, Water & Energy Conservation is offered even years and WMGT 220, Drip Irrigation is offered odd years. Students completing the one-year certificate may use either course.
³ Electives include WMGT 110, Lawn & Turf Irrigation, or WMGT 143, Lawn & Turf Troubleshooting.
⁴ Students are Required to complete OCSUP 108, Applied Mathematics II or equivalent. If a student placement test score does not place them into OCSUP 108; Applied Math II, the student will have to complete OCSUP 106; Applied Math I and/or OCSUP 107; Intro to Technical Math with an appropriate grade.
 CIP:01.0197 EPC:130A

To access degree information on the web, refer to www.wvcc.edu/water and select "Degrees" from the left-hand column.