

Clackamas Community College

Online Course/Outline Submission System

Show changes since last approval in red

WET-122 Water Distribution and Wastewater Collection Systems

General education certified: Yes No

- Writing
- Oral Communication
- Arts and Letters
- Science & Computer Science
- Mathematics
- Social Science
- Cultural Literacy
- Health & Physical Education

Approved Date (mm/dd/yyyy): / /

Section #1 General Course Information

Department: Engineering Science

Submitter

First Name: **Matthew**

Last Name: **LaForce**

Phone: **3148**

Email: **laforce**

Course Prefix and Number: WET - 122

Credits: 3

Contact hours

Lecture (# of hours): 33

Lec/lab (# of hours):

Lab (# of hours):

Total course hours: 33

For each credit, the student will be expected to spend, on average, 3 hours per week in combination of in-class and out-of-class activity.

Course Title: Water Distribution and Wastewater Collection Systems

Course Description:

Elementary engineering aspects of water distribution and wastewater collection systems. System components, construction materials, pump station design, maintenance, operations, and other related topics.

Type of Course: Career Technical Preparatory

Is this class challengeable?

Yes

Can this course be repeated for credit in a degree?

No

Is general education certification being sought at this time?

No

Does this course map to any general education outcome(s)?

No

Is this course part of an AAS or related certificate of completion?

Yes

Name of degree(s) and/or certificate(s): Water Quality AAS

Are there prerequisites to this course?

Yes

Pre-reqs: Pass WET-110

Have you consulted with the appropriate chair if the pre-req is in another program?

No

Are there corequisites to this course?

Yes

Co-reqs: WET-120

Are there any requirements or recommendations for students taken this course?

No

Are there similar courses existing in other programs or disciplines at CCC?

No

Will this class use library resources?

Yes

Have you talked with a librarian regarding that impact?

No

Is there any other potential impact on another department?

No

Does this course belong on the Related Instruction list?

No

GRADING METHOD:

A-F or Pass/No Pass

Audit: Yes

When do you plan to offer this course?

Winter

Is this course equivalent to another?

If yes, they must have the same description and outcomes.

No

Will this course appear in the college catalog?

Yes

Will this course appear in the schedule?

Yes

Student Learning Outcomes:

Upon successful completion of this course, students should be able to:

1. apply basic engineering aspects of sewer to design, flow and collection system hydraulics.
2. implement proper inspection, operation and maintenance techniques to collection systems,
3. apply the basic engineering aspects of water distribution systems to design, flow, and hydraulic principles.
4. implement proper inspection, operation and maintenance of water distribution systems.

This course does not include assessable General Education outcomes.

Major Topic Outline:

1. Wastewater Collection System Operator: Duties and Responsibilities.
2. Why do we need Collection System Operation and Maintenance?
3. Wastewater Collection Systems: Basics/Description.
4. Safe and Safety Procedures.
5. Inspecting and Testing the Collection System.
6. Pipeline Cleaning and Maintenance.
7. Problem Solving for Open Channel Flow rates.
 - a. Continuity.
 - b. Manning.
 - c. Flumes.
 - d. Weirs.

Does the content of this class relate to job skills in any of the following areas:

- | | |
|--------------------------------------|----|
| 1. Increased energy efficiency | No |
| 2. Produce renewable energy | No |
| 3. Prevent environmental degradation | No |
| 4. Clean up natural environment | No |
| 5. Supports green services | No |

Percent of course: 0%

First term to be offered:

Next available term after approval

:
