

SOUTHERN ILLINOIS UNIVERSITY EDWARDSVILLE



ERTC FALL 2023 SCHEDULE

In-Person Workshop Schedule

Daytime workshops meet from 8:00 am to 4:30 pm.

DATES	TITLE	LOCATION	IEPA CEUs	COST
Aug 1-4	Cross Connection Control	Joliet	24.0	\$575
Sep 12-15	Cross Connection Control	Rockford	24.0	\$575
Sep 18-22	Wastewater Short School	Rockford	32.0	\$575
Oct 17-20	Cross Connection Control	Joliet	24.0	\$575
Oct 24-25	Class 3 & 4 Wastewater Operations	Champaign	15.0	\$300
Oct 26	34 th Illinois Backflow Symposium	Bloomington	6.0	\$130
Oct 31 – Nov 1	Class 3 & 4 Wastewater Operations	Carmi	15.0	\$300
Nov 2-3	Class 1 & 2 Wastewater Operations	Carmi	15.0	\$300
Nov 14-17	Cross Connection Control	Peoria	24.0	\$575

Virtual Workshop Schedule

Virtual Water workshops meet from 1:00 pm to 4:00 pm.

Virtual Wastewater workshops meet from 1:00 pm to 3:00 pm.

DATES	TITLE	LOCATION	IEPA CEUs	COST
Aug 14–18	Class D & C Water	Virtual	15.0	\$300
Aug 31	Wastewater Lagoons	Virtual	2.0	\$50
Sep 25-29	Class B Water	Virtual	15.0	\$300
Sep 28	Fixed Film Treatment	Virtual	2.0	\$50
Oct 9-13	Class A Water	Virtual	15.0	\$300
Oct 26	Activated Sludge Process Control	Virtual	2.0	\$50
Nov 30	Collection, Prelim and Primary Treat	Virtual	2.0	\$50
Dec 14	Pumps, Maintenance, & Electrical	Virtual	2.0	\$50

Water Evening Course

Basic Water Supply

Location: Virtual – Zoom
Schedule: Wednesdays, 12 weeks

Hours: 36
Dates: Aug 16 – Nov 1
Instructor: Drew Hoelscher

Fee: \$ 500
Time: 6-9 p.m.

This course is an introduction to water supply covering Class D and C operations. Topics include wells, chlorination, fluoridation, chemical treatment, distribution systems, pumps, sampling, operating reports, water quality, and related math.

Wastewater Evening Course

Basic Wastewater Treatment

Location: ERTC (SIUE campus)
Schedule: Tuesdays, 10 weeks

Hours: 30
Dates: Oct 3 – Dec 12
Instructor: Jim Winslade

Fee: \$ 450
Time: 6-9 p.m.

Sources and characteristics of wastewater are taught. Topics include biological treatment principles, process control, normal operation, and preventative maintenance for collection systems, preliminary treatment devices, primary treatment devices, stabilization ponds, and disinfection systems. Basic activated sludge and fixed film treatment will be covered. Federal and state laws, rules, and regulations are also discussed.

An Alternative to a 4-year Degree

The ERTC Water Quality Control Operations Program

The *Water Quality Control Operations Program* is a one-year, full-time, certificate program. The program provides vocational training in drinking water and wastewater treatment technology. The classes are a combination of classroom and hands-on training using the one-of-a-kind 30,000 gallon per day training-scale wastewater and drinking water treatment plants. Upon completion, the students are eligible to take their Illinois and Missouri certification exams to become water and wastewater operators.

Classes begin on August 22, 2023. Email ertcinfo@siue.edu for information.



Online Registration Instructions

1. Go to the ERTC website: www.siu.edu/ertc

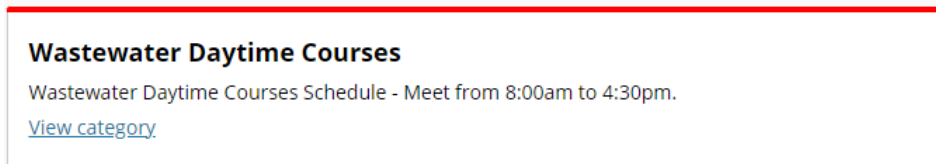
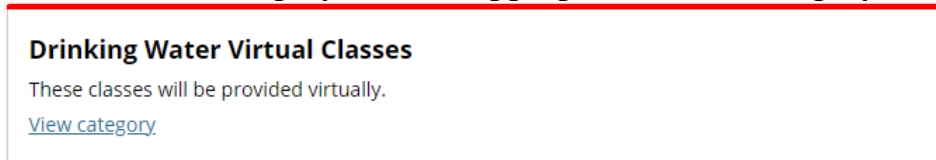
2. Select the Online Registration Box.

Online Payment & Registration is now available for all courses, renewals and workshops.

3. Select “View category” for the Environmental Resources Training Center.



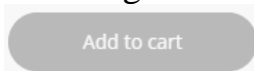
4. Select “View category” for the appropriate Class Category (example below).



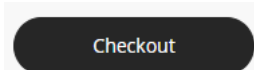
5. Select “View details” for the correct Class Offering (example below).



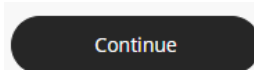
6. Enter registrant information and “Add to Cart”. Boxes with red asterisks (*) are required.



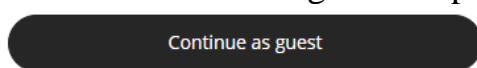
7. Select Checkout when completed.



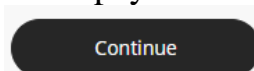
8. Select Continue at page bottom.



9. Select “Continue as guest” to proceed.



10. Enter payment information and select “Continue”.



11. A receipt will be sent to the email entered during registration.

FALL 2023 WASTEWATER CLASS DESCRIPTIONS (CONTINUED)

Fixed Film Treatment

2 hrs

General design, operation, and maintenance of trickling filters, rotating biological contactors, and moving bed bioreactors. Operation techniques will include operation for BOD removal and nitrification. Laboratory and reporting will be included.

Pumps, Maintenance, & Electrical

2 hrs

General knowledge of pumps, maintenance, and electrical principles will be discussed, with an emphasis on their applications in wastewater systems.

Wastewater Lagoons

2 hrs

General design, operation, and maintenance of wastewater stabilization ponds will be covered including aerated, anaerobic, and facultative ponds. Laboratory and reporting requirements will also be discussed.

Class 1 & 2 Wastewater Operations

15 hrs.

This course will cover the skills needed to operate, facilitate process control, and troubleshoot different types of treatment plant units. Topics include conventional activated sludge, sequencing batch reactors, and oxidation ditches. Applied mathematics with process control calculations are stressed. Physical, chemical, and laboratory analysis methods will be demonstrated. Also included are nitrogen and phosphorous removal techniques.

Class 3 & 4 Wastewater Operations

15 hrs.

Topics include biological treatment principles, process control, normal operation, preventative maintenance of collection systems, preliminary treatment devices, primary treatment devices, stabilization ponds, and disinfection systems. Also includes the operation of trickling filters and RBC units. Federal/State laws, rules, and regulations are also discussed.

Wastewater Operator Short School

32 hrs

A training session to develop skills specific to process control and operation of Class 4/3/2/1 plants. All aspects of plant operations, process control tests and their interpretation, process control math, safety reports and records for each specific class are covered. On Friday morning, the IEPA wastewater certification exam is given to eligible students.

The Class 4 section focuses on stabilization ponds, collection systems, and chlorination systems.

The Class 3 section focuses on trickling filters and RBC units.

The Class 1 & 2 section focuses on activated sludge treatment plants with aerobic and anaerobic sludge digesters.

Note to Students Attending Wastewater Short School:

To take the certification exam on Friday, students must complete the IEPA Examination Request for Wastewater Certification and return it to IEPA at least 30 days prior to testing.

Link to IEPA Examination Request for Wastewater Certification

<https://epa.illinois.gov/topics/forms/water-forms/wastewater-operator.html>

Questions? Contact the IEPA Wastewater Operator Certification Program at 217-782-9720.

CANCELLATION POLICY: ERTC reserves the right to cancel a course with less than ten students. If we cancel a course, you will be notified, and your preregistration fee will be refunded. If we postpone a course, you will be notified of the rescheduled date. If you cannot attend a rescheduled date, you will receive a full refund.

REFUND POLICY: You must cancel a course registration no later than one day before the first scheduled class meeting. If you do not cancel and do not attend, you will receive no refund.

CROSS CONNECTION CONTROL COURSES: There will be no refund for any registration not cancelled at least five working days before the first day of the workshop. If you cancel twice for the same type of workshop, you will forfeit your registration fees and be required to wait at least six months before any registration will be accepted.