

SOIL/WASTE 387 – ON-SITE WASTEWATER TREATMENT SYSTEMS

SYLLABUS

Instructor

Bryant C. Scharenbroch, Ph.D.

TNR 278 (office hours: Mondays and Wednesdays at 11-1150 am or when my door is open)

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Catalog description

1 cr. Wastewater treatment process, design, and regulatory requirements for on-site systems.

Prerequisites: NRES 251. May not earn credit in both SOIL 387 and WSTE 387.

Course overview

This course covering on-site wastewater treatment systems is designed for upper level undergraduate and graduate students in soils and waste resources and other related fields. The class meets weekly for eight weeks.

Course objectives

The objectives of the course are such by the end of the semester the students should be able to:

1. Understand various options available for on-site waste treatment
2. Know how soils are evaluated to determine the size and type of private on-site waste treatment system (POWTS)
3. Know the regulations that control the design, installation and management of POWTS

Textbooks and references

- No textbook is required for the course

Evaluation and grading

The course grade will be determined from a final exam (85%) and classroom participation, professionalism and pop quizzes (15%).

Schedule

DATE	WK	TOPIC
9/3	1	Introduction
9/10	2	Septic Systems 101 – Matt Janzen
9/17	3	State Code SPS 383 and SPS 385 – Matt Janzen
9/24	4	On-site soil and septic system inspection (field trip)
10/1	5	On-site soil and septic system inspection II – Bill Kolodziej (field trip)
10/8	6	Design of an onsite system – Bill Kolodziej
10/15	7	Inspection (field trip)
10/22	8	Final exam

Lecture meeting time and location

- Tuesdays at 1200-1350 (lecture) in WEC 110

Attendance

Attendance is required. Make-up sessions are not available. Class meetings may or may not extend the entire two hour period.

Emergency procedures

In the event of a medical emergency, call 911 or use the red emergency phones located throughout the campus. Offer assistance if trained and willing to do so. Guide emergency responders to victim. In the event of a tornado warning, proceed to the lowest level interior room without window exposure. Avoid wide-span rooms and buildings. In the event of a fire alarm, evacuate the building in a calm manner and meet outside the building. Notify instructor or emergency command personnel of any missing individuals. In the event of an active shooter, run, escape, hide and fight. If trapped hide, lock doors, turn off lights, spread out and remain quiet. Follow instructions of emergency responders. See UW-Stevens Point Emergency Management Plan at www.uwsp.edu/rmgt for details on all emergency response at UW-Stevens Point.