

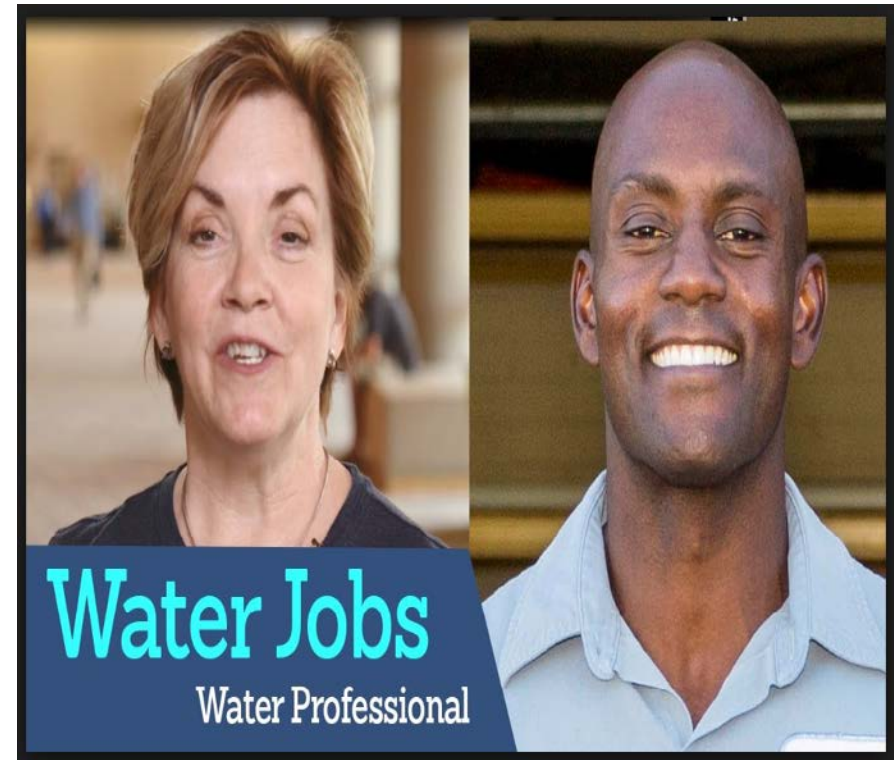
The background features several flowing, wavy bands of color. At the top, a thick band of red and orange flows from left to right. At the bottom, there are more complex, overlapping waves in shades of red, orange, and yellow, creating a sense of movement and depth. The central area is a plain white background where the text is located.

OPERATOR RECRUITING

PROBLEM

Loss of operators through

1. Retirement
2. Death
3. Career Change
4. Move to larger utility
5. Move into a different role with utility



PROBLEM

Issues with certified operator shortage

1. Time constraints
2. No experience
3. Licensure Requirements
4. Lack of succession planning
5. Lack of overlap in hiring process



NEW CANDIDATES ??????

1. High School students
2. College students
3. People looking for 2nd careers
4. Enhance unlicensed operators
5. College grads who had majors that didn't directly lead to a job



WHAT ARE OTHER AREAS OF RECRUITING




SOLUTION

- Online degree, online training, certification or certificate programs
- A.S. in Environmental Science
- B.S in Water Resource Management
- Training in Water and Wastewater workforce materials



SOLUTION

- Programs are being integrated in high schools as trade/CTE
- Courses are taught online
- Some courses are taught face to face
- Students find it cool and interesting
- Promoted through introducing the industry to students in science classes



HOW DO WE ENCOURAGE OPERATORS TO ENHANCE
THEIR SKILLS AND BECOME MORE VALUABLE

Spring Term 2019 - Session A...

Home

Announcements

Modules

Syllabus

Discussions

Quizzes

Grades

Instant-In Proctor

Course Eval

Tutor.com: 24/7
online tutoring

FGC Career
Connection

People

Files

Pages

Outcomes

Assignments

Conferences

Collaborations

Settings

Recent Announcements



APA Resources

Good morning all, Some of you have asked for additional assistance ...

Posted on:

(Spring Term 2019-A16) EVS2893C: Environ Sampling & Analysis I 1IP (20675)

Jump to Today



[EVS2893C Environmental Sampling and Analysis I Syllabus Spring 2018.docx](#)

Welcome to EVS 2893C:
Environmental Sampling and Analysis I

Instructor: George Haynes

Email:

Phone:

Office Location:






















Office Hours: Wed 9:00 am - 2 pm

This course covers the standard laboratory procedures and on-stream analysis for the measurements of silica, organic compounds, ions, particles, and microorganisms. It prepares the student for water and wastewater analysis and monitoring utilizing laboratory equipment, and it outlines the application of laboratory data to the effective management of watersheds and the disposal of wastewater effluent to the natural environment.

By the end of the course, you should expect to be able to:

1. Explain water sources and uses.
2. Explain physical, chemical, and biological characteristics of water.
3. Describe the significance of the characteristics of water.
4. List the water quality standards and global perspectives.
5. Outline laboratory procedures associated with water treatment and its operational analysis.
6. Utilize biological principles in the treatment of water and in the disinfection of treated water.
7. Understand the water quality in rivers, estuaries, and ocean outfalls.
8. Analyze water quality in lakes and reservoirs.
9. Analyze water quality in groundwater systems.
10. Describe the biological treatment of wastewater and chemical treatment of water.
11. Apply laboratory and chemical analysis for process control in treatment of wastewater and water.
12. Understand the impact of effluent disposal on natural environmental systems, and the biological, and chemical properties of wastewater.
13. Analyze data and present the information.

Course Summary:

Date	Details
	 Case Study 1.2
	 Case Study 2.2
	 Case Study 3.2
	 Case Study 5.2
	 Case Study 6.2
	 Case Study 7.2
	 Chapter 6 Discussion
	 Chapter 7 Discussion
	 Chapter 7 Discussion
	 EVS2893C Environmental Sampling and Analysis I Syllabus Spring 2018
	 Final Exam
	 Introduction
	 Library Skills Assessment
	 Library Skills Assessment
	 Midterm Corrections
	 Midterm Exam
	 Module 1 Discussion Question
	 Module 1 Homework
	 Module 2 Discussion Question
	 Module 2 Homework
	 Module 3 Discussion

Case Study 1.2

Case Study 1.2

Most prominent among the sources of ground water contamination were fertilizers and pesticides used in agriculture. Other sources included urban use of lawn chemicals, industrial discharges, and landfills. The pathways of ground water contamination were disputed. Some interests argued that contamination occurs only when a natural or human generated condition, such as sinkholes or agricultural drainage wells, provides preferential flow to underground aquifers, resulting in local contamination. Others suggested that chemicals applied routinely to large areas infiltrate through the vadose zone, leading to widespread aquifer contamination. **What has been done to resolve these issues?**

There is no minimum word count for this. You have a week to research and write this topic. Your paper should be formatted according to APA guidelines using 12 point Times New Roman font.

Keep in mind the rubric from the introductory module, as this is what will be used to grade your assignment. Feedback will be given when this assignment is graded.