

**Western Dakota Technical Institute
800 Mickelson Drive
Rapid City, SD 57703-4018**

Master Syllabus

Course Number: EET 253
Course Name: Principles of Water Resources
Credits: 3
Contact Hours: 3 Lecture

Course Description: This course will provide students a basic knowledge of the underlying principles of hydrology. In addition to an introduction to surface water hydrology, this course also introduces students to the basic concepts of groundwater hydrology. Other topics explored in some detail include the hydrologic cycle, dams, federal water agencies and their responsibilities, an introduction to drinking water and waste water treatment, water use conflicts, and emerging water issues.

Prerequisites: MATH 101 or equivalent, EET 102, EET 103

Textbook: <http://bookstore.wdt.edu>

Materials: Notebook or notepaper, pencil and/or pen, calculator, and laptop computer

Student Learning Outcomes:

- Describe how early civilizations found and used water for their personal needs
- Explain the natural and physical processes associated with the hydrologic cycle
- Evaluate the environmental impacts of dams
- Describe potential risks related to water shortages and declining water quality
- Utilize basic computer models to enhance understanding of hydrology

Assessment: Students' analytical skills, technology skills, teamwork techniques, communication skills, and employability will be assessed throughout the course.

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