CE 754 Groundwater & Seepage

DEPARTMENT OF CIVIL & ENVIRONMENTAL ENGINEERING
WEST VIRGINIA UNIVERSITY, SPRING 2012

Instructor:	John Quaranta, Ph.D., P.E.
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Phone:	304-293-9942
Office Hours:	Wednesday 2 – 5 pm and other times by appointment.
Course Location:	ESB Room 201; Tuesdays and Thursdays 5:00 pm to 6:15 pm

SYLABUS

SCOPE

The objective of CE 754 is to introduce the subject of groundwater movement and seepage in soils; and discuss its evaluation and control in engineering problems. In this course the student will be instructed on the following:

- Engineering aspects of soils with regards to seepage phenomena
- Discussions of groundwater conditions and soil / water interactions
- Types of seepage related problems and their control
- Theoretical and practical methods for seepage and groundwater analysis and control
- Selection criteria for groundwater and seepage computational models
- Computer methods for analysis

GRADING

Grading for the course is outlined below:

Category	Percentage
Homework	60
Mid-term exam	20
Final exam	20
Total	100

HOMEWORK

Homework problems will be assigned on a regular basis and will be due when specified.
The submission of all assigned homework is required for a credit in this course.

ATTENDANCE

Attendance is critical to performing well in the class.

TEXTBOOK

The textbook for this class is:

Seepage in Soils, Principles and Applications, by Lakshmi N. Reddi
John Wiley & Sons publishing, 2003, ISBN: 0-471-35616

REFERENCES

Supplementary reading in the form of journal articles and design manuals will be assigned.