ENVE 304 – WASTEWATER TREATMENT PROCESS DESIGN

Spring 2014
MWF 12-12:50 pm
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TOPIC

Pollution Parameters*
Wastewater Treatment Unit Operations*
Flow Measurement*
Mass Balance/Hydraulic Flow Regimes

**Biological Treatment Processes**

Mass Transfer and Aeration*
Bacterial Growth and Metabolism
Kinetics of Biological Growth
Aerobic Treatment*
Anaerobic Treatment

**Physical Treatment Processes**

Sedimentation*

**Biosolids Processing**

Sludge Sources, Characteristics, and Quantities
Dewatering

**Disinfection**
GRADING

Homework 20%
Short Team Projects 40%
Mid Term 15%
Final Exam 25%

* There will be short team projects throughout the semester. For every project, each team is required to prepare a short ppt presentation for in-class discussion.

REFERENCES