

ENGR 453  
Spring 2021

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- Course Description:** Wastewater Treatment Engineering. Sanitary survey, reactor kinetics, screening, sedimentation, filtration, colloid destabilization, disinfection, conventional and land based biological treatment, solids treatment and disposal. Course primary outcomes E, G, and J; secondary outcomes B, C, and D.
- Prerequisites:** ENGR 350, ENGR 416 (concurrent).
- Text:** Davis, Mackenzie, 2011. *Water and Wastewater Engineering, Design Principles and Practice*.
- Grading:**  
Homework and Labs 25%  
Midterm exam (March 15) 25%  
Term Project (Due Friday, May 7 at noon) 25%  
Final exam (Monday, May 10 at 12:40-2:30) 25%
- Late Papers:** 80% off if late, 100% off if more than one week late.
- Academic Honesty:** The ERE department and the university policy regarding academic honesty is **strictly upheld**. Any student found to violate this policy will receive an automatic F grade on the assignment, will face disciplinary action by the University, and will almost always receive a disciplinary F grade in the course. The department academic honesty policy can be viewed at  
<http://engineering.humboldt.edu/ere-academic-honesty-policy>  
The university academic honesty policy can be viewed at  
[http://www.humboldt.edu/studentrights/academic\\_honesty.php](http://www.humboldt.edu/studentrights/academic_honesty.php)  
The policy regarding use of campus computing resources can be viewed at  
<http://www.humboldt.edu/its/policy>
- Last Day to Drop:** Without serious and compelling reason: February 8  
Withdrawal with a serious and compelling reason: April 5
- Project information:** Provide the feasibility level design of a wastewater treatment facility (or some portion thereof) for a community of your choice using the format described on the attached sheet.
- Disability Services:** If you have any type of disability that may hamper your full participation in course activities, it is your responsibility to inform me of your need for accommodations as soon as possible. I expect to hear from you within the first two weeks of the semester so that appropriate accommodations can be arranged. Complete information on the services available at HSU can be found at the Student Disability Resource Center (SDRC) in Campus Events Field 4/5, 826-4678 (voice) or 826-5392 (TDD) or their website <http://disability.humboldt.edu>. Some accommodations may take up to several weeks to arrange.

If you qualify for extra time on exams or need other accommodations, it is your responsibility to obtain and provide me with the academic adjustments form from the SDRC. The form must be presented to me in a timely manner (strongly recommend submitting at the beginning of the semester) so appropriate arrangements can be made in advance for all exams. It is strongly recommended that you communicate accommodation and scheduling arrangements approximately one week prior to each exam.

**Library Information:** Engineering and Science library research guides:  
[http://libguides.humboldt.edu/prf.php?account\\_id=3860](http://libguides.humboldt.edu/prf.php?account_id=3860)

**Additional Info:** HSU Student Rights and Responsibilities Information:  
<http://www2.humboldt.edu/academicprograms/syllabus-addendum-campus-resources-policies>

**Reports:** The following formatting conventions are requirements for math, figures and tables contained in all written communication in the ERE department at HSU. If the requirements are not met, you will receive a grade of zero for the assignment. At the instructor's discretion, you may be able to correct your work and resubmit the paper, however it will be treated as a late paper.

All tables must have a title heading above the table.

All figures must have a caption below the figure.

Figures must not have a title at the top.

Excel sometimes inserts one by default, which you must remove.

All graphs must have axes labeled with units.

Use subscripts and superscripts in figures and tables.

For example,  $m^2$ , and not  $m_2$ ,  $m^{\wedge}2$ ,  $m^{**}2$ , etc.

Figures must not be fuzzy, blurred, or low resolution pixelated images.

The department's guide to technical communication can be found at

<http://engineering.humboldt.edu/technical-communication-resources>