ENT 382, HYDRAULICS (Spring 2011)

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Texts: Introduction to Hydraulics and Hydrology, Gribben

Grading:	A 90-100	Superior Concepts and Application
	B 80-89	Good Concepts and Applications
	C 70-79	Competent Application
	D 60-69	Recognizes Vocabulary
	E < 60	Try Again

Exams (2)	50%
Homework	15%
Final	20%
Labs	15%

Grading on homework will be acceptable or unacceptable. If you have 3 acceptable problems out of 5 total problems on an assignment, your grade would be 60. Acceptable homework means using the required format, showing units clearly on each step, and being reasonably accurate. If you are having a problem with the homework or labs, talk with me before the assignment is due.

The final may include a short comprehensive quiz and/or project involving manual and computer applications.

Course Topics	Chapter	Tentative Week
Fluid Mechanics	1, 2	1
Hydrostatics	3	2, 3
Hydrodyamics	4	4, 5
Hydraulic Devices (pumps)	5	6
Open Channel Hydraulics	6, 7	7
Culvert Hydraulics/Design	9, 13	8
Hydrology	10	9
Runoff	11	10, 11
Storm Sewer Design	12	12
Detention Pond Design	14, 15	13, 14

Exams will be after studying hydraulic devices and after studying storm sewer design.

Tentative Homework

Chapter	Problems
1	1, 2
2	1, 2, 3, 5, 9
3	1, 2, 3, 5, 6, 7, 9, 15
4	1, 5, 6, 7, **10, 11, 14**
5	**1, 7, 8, 9**
6	3, 4, 5, 19
7	**1, 4, 7, 15, 16, 19**
9	**1, 3, 5, 8**
10	3, 6, 12
11	1, 4, 7, **17(3)**
12	1, 3, **6(3)**
14	3, **6**

Bold indicates that the problems must be worked by computer and possibly by hand. Problems with a (3) count as three problems. The numbers or data will be changed on several problems. If you use the incorrect data, you will receive no credit.

Tentative Labs	Week
Fluid Properties	2
Hydrostatics, Pressure	3
Flow Measurement/Flow Volume Relations	4
Flowmaster	5
WaterCad	6, 7
Flowmaster/Culvertmaster	8
TR-55	9, 10
StormCad	11, 12
Pond Pack	13

Missed wet labs cannot be made up. You may be able to receive partial credit for a missed computer lab based on the specific deliverable.