## **CE 331 -- Civil Engineering Materials II**

Asphalt Production and Testing Laboratory Rubric

		Criteria			NOTES
	Component	Marginal (1)	Acceptable (2)	Exceptional (3)	NOTES
1	Summary				
	1. Describes the goals of the	Identifies one goal of	Identifies most of the	Clearly identifies the goals of the	
	experiment	the lab	goals	laboratory	
	2. Provide an overview of the	Describes one of the	Describes two of the	Concisely and accurately describes	
	materials and methodology	items	items	the materials, production, and testing procedures	
	Identify the major findings of the experiment	Identify one major items	Identify two major items	Identify all major findings	
	4. Qualitative observations from specimen preparation		Describes three of the items	Mixing effort, appearance, and compaction effort with different mixtures (asphalt content and aggregate gradation)	
2	Results				
	1. Table 1: Provide the mixture designs and calcualte the binder content	Table is not clear	Values are correct, but table is badly organized.	Values in the table are correct, clearly organized and differentiates between surface and binder mixtures	Table captions=above table Figure captions=below figure
	2. Figures 1 & 2: compressive strength vs asphalt content for surface and binder mixtures	incorrect; does not identify optimum binder	· ·	Figures have correct values and clearly identifies the optimum binder content.	A curve should be fit to experimental data, and the peak of that curve used to determine the optimum asphalt content.
3	Format and Organization	Not organized clearly. MORE THAN ONE PAGE.	Well-structured, but writing tends to ramble	Good organization; Succinct write-up	
4	Units, General	units. Improper use of significant figures.	Average formatting. Proper units. Improper use of significant figures.	Professional formatting. Proper units. Proper significant figures.	
5	Appendix	Binder content is not caluclated correctly		Includes excel sheets in the appendix. This is free points to check your calculations	Check lab prep slides to calculate asphalt content (slide 17)

The total for this lab report is 27 points.