

## BAE 495 – Applications of Ecological Engineering

Due April 24

Homework #7:

1. Visit the website <http://www.nceep.net/pages/fee.htm>. This table lists how much an individual must pay (called a compensatory mitigation fee) into the NCDENR Wetlands Trust Fund if an individual is permitted to alter or destroy wetlands.

In Homework # 5, you described three wetland communities and stated which community you felt had the highest value (i.e. provided the most important ecosystem services). Based on the fee schedule on the website above, which wetland does the NCEEP value the most? Explain why you think this is the case.

2. Read the article “Progress in Wetland Restoration Ecology” by Joy Zedler (you will be responsible for this on the exam). In the article, Zedler lists 10 ecological principles that are often ignored or violated during restoration design. Pick three of the principles with which you can easily identify. In three short paragraphs (1/3 page total for each principle):
  - a. Summarize the principle
  - b. Discuss why the principle may be ignored or violated
  - c. Discuss a ramifications of ignoring or violating that principle during restoration
3. BONUS (1 pt): What does this article tell you about the number of future research topics available to ecological engineers?