

ESRM302/CFR590 Restoration Design  
Take Home Exam  
Distributed April 16, 2007  
Due April 23, 2007

Answer each question on a separate page; use only one page per answer; put your name and the appropriate question number on each page; and most importantly of all, provide original and thoughtful responses. Due: at the beginning of class on Monday April 23.

1. What are some common impacts (like disturbance or process change) that are often dealt with in restoration?
  - a. What is a common response (by a restorer who is designing a project) to each?
  - b. What are *constraints* that might limit or preclude such responses?
  - c. What stakeholders are likely to bring the *constraints*?
  
2. When you do a restoration project, you may be limited to buying or growing as few as 20 species of native plants. How might you select these 20 species? (What would be some rules for assembling your species list?) Would some of the species perform different functions than others? Describe some of the different functions that might be performed.
  
3. Imagine a project for which both site modification and site conditioning would be important to meet the *Functional Requirements*. Describe such a project, explain why and what site modification and conditioning would be prescribed, and explain what the intended outcomes would be.
  
4. Explain how landscape-scale restoration strategies can be carried out by doing small projects at a site or project scale. Give an example.
  
5. We have suggested that a design is complete (done) when the “thing” or “process” that you are designing is sufficiently characterized by *Design Parameters* that persons of ordinary skill can implement and operate the solution such that it:
  - Performs the desired function(s).
  - Does not violate the design constraints.We also have suggested that restoration designs tend to specify methods (as opposed to solely specifying outcomes) and that restoration design projects tend to be “design-build” projects. Discuss the validity of these suggestions.