

CEE 4284 Advanced Land Development Design

Course Summary: CEE 4284 is unique in the academic community in that it is coordinated by a tenured University faculty member, but taught *exclusively* by three teams of industry professionals. This arrangement ensures that course content and structure meets University requirements while simultaneously exposing students to front line issues facing the industry. This course, first offered in the spring 2007 semester, expands upon topics introduced in the CEE 4274 (Land Development Design) course by providing in-depth study of site grading, Americans With Disabilities Act (ADA) site design requirements, erosion and sedimentation control, and stormwater management including application of water quality best management practices (BMPs).

Course Objectives:

1. Recognize and describe the politics involved in turning a land development concept into a constructed project.
2. Develop grading and parking solutions for a development site.
3. Design Erosion and Sediment Control structures for a site based on pertinent regulations.
4. Create a full stormwater management plan for a site based on hydrologic and hydraulic calculations.
5. Prepare a written report and an oral/visual presentation of the design project or one of its components.
6. Work as a member of an integrated team to complete the project design, report, and presentation.



Smith's Landing in Blacksburg – a construction site visited by students during the spring 2008 offering of Advanced Land Development Design. Course instructors from Draper Aden Associates provided site engineering services on the project.

Field Visits: CEE 4284 includes a number of visits to sites under construction. At least one weekend will be spent on a required class field trip to the Richmond area to tour sites hosted by Balzer & Associates, Inc. and Draper Aden Associates.



Derrick Cave (Kimley-Horn and Associates, Inc.) and Cameron Palmore (Balzer and Associates, Inc.) discuss the Advanced Land Development Course at an LDDI meeting.