

Appalachian State University  
Department of Technology

**TEC 4718-101 – Construction Management**

**Fall 2005**

**Lectures:** Tuesdays and Thursdays 8:00 am – 9:20 am

**Location:** Kerr Scott Hall, Room 167 and Room 207 (when scheduled)

**Instructor:** Dr. Ramsdell  
262-7243 (office)  
ramsdellje@appstate.edu

**Office Hours:** Posted by office door, Room 162  
Other times possible by appointment

**Textbook:** Construction Project Administration – Seventh Edition  
by Edward R. Fisk, PE, Prentice Hall, 2003

**Supplemental Required**

**Text:** Construction Scheduling with Primavera Project Planner – Second Edition  
by Leslie Feigenbaum, Prentice Hall, 2002

**Course Description:**

This course will introduce students to the mechanics of managing construction projects and personnel. Organizational structures, required licenses, codes, permits, safety requirements, personnel management, customer relations, scheduling, accounting, insurance, and financing will all be addressed. Special attention will be given to the use of computer software, such as spreadsheets and scheduling programs, for construction management activities.

**Prerequisites:**

- TEC 2708 and MAT 1020 or higher.
- Basic knowledge of computer word processing, Internet procedures, and spreadsheets.

**Course Content:**

- Residential affordability – mortgages, PITI, debt-to-income ratios
- Determining income required for a given residential market using Excel's PMT function to calculate payments
- Licenses required to start a construction company and the steps in getting a General Contractor's License
- The role of the professional construction manager, project manager, project engineer, project architect and designer, general contractor, project

- superintendent, on-site inspector, owner's representative, and other project administrators
- Construction planning and scheduling techniques, including the Critical Path Method (CMP)
  - Project Planning Software (either Primavera Project Planner or Microsoft Project):
    - Prepare project task list and task relationships
    - Prepare project budget
    - Use software to determine project schedule
    - Use software to track cash flow
    - Use software to determine impact of time delays, cost overruns, and other project problems
    - Print project planning results and compile into a project report
  - Construction project financing
  - Contract documents and legal issues
  - Insurance requirements and needs
  - Safety requirements, problems, and solutions
  - Effective labor management practices
  - Business organizations or legal structures used in the construction industry
  - Building codes and other information needed to take the contractor's licensing exam
  - Managing overhead expenses

**Course Requirements:**

- Attend class and participate in discussions
- Complete assigned readings
- Take notes during classroom lectures and discussions
- Complete homework assignments
- Complete class project – scheduling and budgeting a construction project
- Perform well on exams

**Course Evaluation:**

Attendance and Active Class Participation	-----	10%
Homework and Quizzes	-----	20%
Project	-----	20%
Two Class Examinations (15% each)	-----	30%
Final Examination (Comprehensive)	-----	20%

**Grading Scale:**

93.0 – 100	A	73.0 – 76.9	C
90.0 – 92.9	A-	70.0 – 72.9	C-
87.0 – 89.9	B+	67.0 – 69.9	D+
83.0 – 86.9	B	65.0 – 66.9	D
80.0 – 82.9	B-	0 – 64.9	F
77.0 – 79.9	C+		

**Homework:**

Periodic homework assignments and quizzes will be given and may be graded. Good study habits are essential for success in this class. The student should read the assigned chapter before attending class and work the problems appropriate to the class before the next session. The homework problems assigned are considered to be the minimum to gain facility with the material. You are encouraged to work more problems on your own. Solutions to the assigned problems will be posted and/or reviewed during class.

**Exam and Quiz Dates:**

Examination and quiz dates will be announced in class. The comprehensive final examination will be given during the examination period scheduled by the University.

**Course Policies & Expectations:**

1. Class attendance and participation is expected and essential to doing well in this course. Unexcused absences and excessive tardiness will deduct from the attendance portion of your grade.
2. The quizzes and examinations will be based on the material discussed in class, as well as the reading and homework assignments.
3. Examinations and quizzes *cannot* be made up unless prior approval has been granted by the instructor.
4. The course outline, schedule, grading, and policies may be changed by the instructor, as deemed necessary.
5. Honesty is expected in all class work. Cheating in **any form** (see Code of Student Conduct & Academic Integrity) will not be tolerated and will result in a grade of F for the course.
6. Requests for adjustment to any grade, regardless of the reason, will only be entertained for a period of one week following the time the grade in question was returned to you. Once this deadline has passed the grade will not be adjusted.

**Students with Special Needs**

All learners have different learning styles. If you have a particular disabling condition that the instructor should know about in assigning and evaluating your course work, please notify me in advance so that appropriate accommodations can be made. Students who are experiencing emotional or other difficulties are encouraged to make use of the ASU counseling service (262-3180) or the Learning Assistance Program (262-3044).