

FOREST HARVESTING (FRSC 2280)

Credit Hours: 2

Dr. R. W. Brown

PREREQUISITES: FRSC 2255

TEXTBOOK: none

SUPPLIES: calculator

<u>GRADES:</u>	Midterm examination	<u>Points</u> 350
	Final examination	350
	Lab Exercises	150
	<u>Quizzes</u>	<u>150</u>
	Total	1000

<u>Grade</u>	<u>Points</u>
A	900 - 1000
B	800 - 899
C	700 - 799
D	600 - 699
F	< 600

OBJECTIVES:

Acquaint students with types of timber harvesting equipment and harvesting methods/systems.

Provide instruction in Georgia’s Best Management Practices for Forestry, including proper road location, road design, stream crossings, and harvesting practices to minimize erosion and other environmental damage, and to protect water quality.

Provide instruction in logging cost analysis (machine rate & system rate calculations) as a tool for calculating profitability as influenced by timber stand conditions and other factors. Computer spreadsheets will be utilized in addition to manual calculations.

***Note:** Students having unexcused absences from visits to harvesting operations will receive a course grade of “I” (assuming a course grade of “C” or better has been earned on exams and quizzes).

Dr. R. W. Brown
06/01/09

FOREST HARVESTING

(FRSC 2280)

Course Outline

1. Introduction
 1. History and past practices
 2. Types of timber harvests
2. Timber Harvesting Functions and Techniques
 1. Felling
 2. Skidding and forwarding
 3. Product preparation
 4. Loading
 5. Hauling
3. Timber Harvesting Systems
 1. Shortwood systems
 2. Cut-to-Length longwood systems
 3. Treelength systems
 4. In-woods chipping systems
4. Best Management Practices for Forestry
 1. Planning for Water Quality
 2. Streamside Management Zones
 3. Road Location, Construction, Stream Crossings & Maintenance
 4. Timber Harvesting
 5. General Forest Management Activities
5. Equipment Management
 1. Equipment selection
 2. Maintenance
 3. Cost records
6. Logging Cost Analysis
 1. Machine Time and Productivity
 2. Machine Rate Calculation
 3. System Rate Calculation

COURSE PROCEDURES

INSTRUCTOR: Dr. R. W. Brown
Room 129, Yow F/W Bldg.
Phone: 391-4795
E-Mail: rbrown@abac.edu

ATTENDANCE: Students are expected to attend every class meeting. If absent, it is the student's responsibility to obtain the information that was missed. Make-up quizzes and exams will only be given when an absence is excused in advance by the instructor, or when the absence is due to a medical emergency. Make-up of lab exercises will often be impossible. Class attendance records will be kept by means of seating chart. Refer to the attached attendance policy for specifics.

CONDUCT: The following rules of conduct shall govern the behavior of all students in this course. Failure to observe these rules may result in dismissal from this course.

No eating or drinking is allowed in the classroom or indoor lab areas.

No smoking or other use of tobacco is allowed in the classroom, indoor lab areas, or in college vehicles used to transport students to field labs.

Students must wear appropriate clothing during field lab exercises as announced in advance by the instructor.

Students are expected to conduct themselves in a mature and safe manner. No dangerous actions or activities will be tolerated.

Note: Dates of scheduled examinations and field trips, and due dates for projects and reports will be announced in class well in advance.

My standard office hours are posted beside office door (Room 129).

06/01/09

ABAC Class Attendance Policy

Courses at Abraham Baldwin Agricultural College are provided for the intellectual growth and

development of students. The interaction with instructors and other students is an important element of the learning process, and a high correlation exists between class attendance and course grades. Therefore to attain maximum success, students should attend all their classes, be on time, and attend all scheduled course activities. **Absence from class, for whatever reason, does not excuse a student from full responsibility for class work or assignments missed.** Students must accept this responsibility.

Individual instructors will establish attendance policies for each class and will publish the policy in the course syllabus (see below). The penalty for absences is at the discretion of the instructor and may include failure of the course. Whenever a student is absent, the student must assume responsibility for making arrangements for any assignments missed due to the absence, if allowed by the attendance policy.

A student who stops attending class without officially withdrawing will still receive a grade for the course.

A student penalized for excessive absences may appeal through the grade appeal process, as stated in ABAC's college catalog and student handbook.

** Amended 11/21/08*

Instructor's Attendance Policy for FRSC 2280

Students whose number of unexcused absences is more than the number of class meetings per week (the equivalent of two weeks of instruction on a standard semester basis) will receive a grade of "F" for the course. Final determination of what constitutes an excused absence rests with the instructor.

Whenever a student is absent, whether for official or personal reasons, the student must assume responsibility and provide notice to the instructor (in advance except for emergencies) for making arrangements for assignments and class work missed because of the absence. However, final approval for make up work remains with the instructor.