

## FOREST SURVEYING & MAPPING (FRSC 2235)

**Credit Hours: 4**

**Dr. R. W. Brown**

**Prerequisites:** MATH 1002 (or MATH 1101)

**Textbook:** None

**Supplies:** Electronic calculator; 3-ring binder  
Drafting Equipment

	<u>Points</u>
<b>Grades:</b> Three lecture exams	450
Final examination	250
Lab Assignments	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

### Learning

**Outcomes:** This is an introductory course in land surveying, map preparation, and map interpretation. Upon completion of this course, the student should know the following:

- Specific terminology associated with the disciplines of land surveying and cartography.
- Systems used for land referencing (latitude/longitude, state plane coordinates, UTM coordinates, land lot/land district, U.S. Public Land Survey).
- Proper use of woods surveying equipment (hand compass, GPS units) and basic drafting equipment.
- Techniques for distance and area measurement.
- Techniques for plat construction and area determination from aerial photographs or maps.

Dr. R. W. Brown

08/17/09

**FOREST SURVEYING & MAPPING  
(FRSC 2235)**

**COURSE TOPICS**

- I. Introduction
- II. Errors, Precision and Accuracy
- III. Measurement of Distance & Direction
- IV. Land Referencing Systems & Coordinate Systems
- V. Traversing
- VI. Global Positioning System
- VII. Real Estate Law

**Additional Lab Topics:**      Drafting equipment use  
   Plotting deed descriptions (traverses)  
   Measurement of distance, direction, slope %, and acreage from USGS topographic maps

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**FRSC 2235  
Drafting Equipment List**

T – Square (24")

Engineer's Scale (10, 20, 30, 40, 50, & 60 graduations per inch)

Protractor (semi-circular, 6", with 1/2° graduations)

Eraser (soft, white)

Drafting tape

## ADDITIONAL COURSE INFORMATION

**INSTRUCTOR:** Dr. R. W. Brown  
Room 123, Yow F/W Bldg. (*office hours are posted by door*)  
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 usually be impossible. Class attendance records will be kept by means of seating chart. **Students having more than four (4) unexcused absences will receive a grade of "F" for the course. Final determination of what constitutes an excused absence rests completely with the instructor.** Students penalized for excessive absences may appeal through the grade appeal process, as stated in ABAC's college catalog and student handbook.

**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. **No smoking is allowed during field labs without the instructor's permission.**

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.

08/17/09