

GISC 224
(Introduction to Global Positioning Systems)
2 Hours Credit

INSTRUCTOR: James M. Dyer (jdyer@latech.edu) (257-4457) (Rm. 13 Lomax Hall)

CONTENT:

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| CLASS PERIODS
1-3 | Introduction to GPS theory and terminology including: <ul style="list-style-type: none">a. What is GPSb. How GPS worksc. Sources of errord. Levels of accuracye. Autonomous versus Differential GPS |
| CLASS PERIODS
4-6 | GPS terminology and introduction to equipment including: <ul style="list-style-type: none">a. Rover unitsb. Base unitsc. Computer requirementsd. Field exercise emphasizing autonomous GPS data collection |
| CLASS PERIODS
7-9 | Equipment and use of software including: <ul style="list-style-type: none">a. Autonomous data analysisb. Collection and analysis of differential GPS datac. Downloading data filesd. Merging and analyzing combined data filese. Discussion of precision versus accuracyf. Brief discussion of GPS applications to Geographic Information Systems |

GRADING: Grades will be determined from an examination (100 pts.) to be given the last day of class and from various field projects (10 pts. apiece)

NOTE: Extra Credit for graduate students will be given for a special GPS project.