Des Moines Area Community College Land Surveying Department, in Partnership with LTAP at ISU InTrans, is pleased to offer a Route Surveying Fundamentals Course. LTAP credit is allowed for this in their Road Scholars Program.

**COURSE DESCRIPTION / OUTLINE**

This course will introduce the student to surveying field work associated with preliminary design, horizontal alignments, vertical alignments and layout. Students will work with the total station, levels, data collectors and survey software. The math associated with highway geometrics will be taught.

- Horizontal and Vertical Curve Calculations (lecture)
- Leveling operations (lecture and field work)
- Elements of the total station and data collector (lecture and field work)
- Interpreting the construction plan (lecture)
- Calculations for construction layout (lecture)
- Construction layout (lecture & field)

**Who Should Attend?**
Anyone who currently performs survey duties as part of their job, or would like to learn more about route survey fundamentals.

**Date and Location**
September 12-14, 2012
DMACC Boone Campus
1125 Hancock Drive
Boone, IA 50036
Room 143

**Contact person:**
Kelli Bennett or Renee White, 515-433-5230

**Workshop Instructors:**
Greg Chlebicki, PE, PLS
Bob Stumbo, PLS

**Registration Information:**
Registration is first come first serve. Maximum class size is 12 people. Please register early to reserve your spot in this class.

Name: _______________________________
Company / Agency: ____________________________
Address: _________________________________
City, State, Zip: ______________________________
Phone: _________________________________
Fax: _________________________________
Email: _________________________________

Cost: $375 / person

To register, please submit this form to the address or fax number below:
DMACC
c/o Kelli Bennett
1125 Hancock Drive
Boone, IA 50036
Fax: 515-433-5231

You will be contacted regarding payment once your registration form is received.