Summer 2016 Courses

CE 4920  
3 credit(s)  
GPS Theory Instrumentation  
Danny Swain  
The fundamental theories of GPS, geodesy, GPS receivers, GNSS, and GPS modernization will be reviewed; while the new topics of post processing of GPS vectors, the use of applied statistics in data analysis, error propagation, and network least squares adjustments using observation equations of GPS vectors will be introduced and covered. Several remote labs will be conducted covering the use of OPUS, RTK GPS, and static GPS. The use of VectorNT (parametric least squares adjustment) software will be taught and used throughout the course.  
Dates/Times: Tue 6-7 p.m., MDT; May 24-Aug. 9

LS 3210  
4 credit(s)  
Advanced Surveying  
Mark Rehwaldt  
Advanced topics in surveying computations and procedures, including traverse error analysis, topographic surveying, mapping, astronomical observations, coordinate geometry applications, and state plane coordinates.  
Prerequisite: CE 2070 or LS 2010.  
Dates/Times: Tue. 7-8:30 p.m., MDT; May 24, 31, Jun. 14, 28, July 12, 26, Aug. 2, 9,

LS 3120  
2 credit(s)  
Survey Boundary Principles  
John Adam  
This course in boundary law addresses the fundamental principles of real property as applied to land surveying and related professions. Discussion and applications center on practical situations and concepts commonly encountered while conducting boundary surveys and the determination of the extent of ownership rights. Students explore the scope of the surveyors’ judiciary role in real property ownership. Primarily offered through The Outreach School  
Dates/Times:  
Tue 7 - 8 p.m., MDT; May 24-Aug. 9