Course Prefix and Number: CIV 160  Credits: 3

Course Title: Transportation Engineering

Course Description: Presents the practical application of transportation design, including administration, location studies, traffic surveys, alignment design, drainage design, intersection and interchange design, pavement types, and pavement design. Co-requisite: MTH 115 or instructor’s approval. Lecture 3 hours per week.

General Course Purpose: An introduction to the principles of road and highway design in civil engineering

Course Prerequisites and Co-requisites: Co-requisite: MTH 115 or instructor’s approval

Course Objectives:
Upon completing the course, the student will be able to
a. Study the government activities and achieve an understanding of government control in transportation; and
b. Study the planning and design techniques for the five modes of transportation, including their terminal facilities.

Major Topics to Be Included:
a. Government activity and administrative structures
b. Operation and control of vehicles
c. Land transportation facilities design (highway, railway, and pipeline)
d. Transportation studies and planning
e. Water transportation facilities design
f. Air transportation facilities design

Effective Date of Course Content Summary: February, 2009