841. Microscopic and macroscopic traffic flow models, systems. P: MSM815.
842. Operational-control strategies with respect to accident
management by

846. Travel Demand Analysis
Fall of odd-numbered years. 3(3-0)

849. Transportation Research Methods
Spring. 3(3-0)
Applications and interpretation of quantitative methods and design of experiments for transportation research: ANOVA, non-parametric, discriminant analysis, factor analysis, multivariate regression, SPSS.

850. Independent Study in Civil Engineering
Fall, Spring, Summer. 1 to 4 credits. A student may earn a maximum of 9 credits in all enrollments for this course.
R: Open only to Civil Engineering master's students. Approval of department.
Research problems of limited scope not pertaining to thesis accomplished under CE 899 or CE 999.

851. Selected Topics in Civil Engineering
Fall, Spring, Summer. 2 to 4 credits. A student may earn a maximum of 9 credits in all enrollments for this course.
Selected topics in new or developing areas of civil engineering.

852. Random Vibration of Structural and Mechanical Systems
Spring of odd-numbered years. 3(3-0) Interdepartmental with Mechanical Engineering and Materials Science and Mechanics.
P: CE 802 or ME 800; CE 710.
Probabilistic modeling of random excitations (e.g., earthquake, aerodynamic, and ocean wave loadings). Response of single and multiple degree-of-freedom systems to random excitation. Designing against failure. Nonstationary and nonlinear problems.

854. Highway and Traffic Safety
Fall of odd-numbered years. 3(3-0)
Analysis of highway geometric design alternatives and operational-control strategies with respect to accident probabilities. Statistical methods of pattern identification, Countermeasure selection and evaluation methodology. Risk management.

855. Public Transportation System Planning
Fall of odd-numbered years. 3(3-0)
Planning and operating urban and rural transportation systems. System technology and management. Budgeting and programming of transportation services. Environmental impact statements. Paratransit and demand-responsive systems.

857. Statewide Transportation Network Evaluation
Spring of odd-numbered years. 3(3-0)
Transportation system measures, needs studies, sufficiency ratings. Cost allocation models, programming and budget constraints. Corridor analysis, transportation economics, demand elasticity.

860. Independent Study in Civil Engineering
Fall, Spring, Summer. 1 to 4 credits. A student may earn a maximum of 9 credits in all enrollments for this course.
R: Open only to Civil Engineering doctoral students. Research problems of limited scope not pertaining to thesis accomplished under CE 999.

CLASSICAL STUDIES

CLA
Department of Romance and Classical Languages
College of Arts and Letters

120. Latin and Greek Roots of English Words
Fall of even-numbered years. 3(3-0)
Prefixes, suffixes, and roots of English vocabulary from Greek and Latin word elements.

210. Greek Civilization
Fall. 3(3-0)
General survey of salient aspects of ancient Greek civilization and modern approaches to its study.

211. Roman Civilization
Spring. 3(3-0)
Ancient Roman civilizations and modern approaches to their study.

350. Greek and Roman Literature in English Translation
Fall of odd-numbered years. 3(3-0)
R: Not open to freshmen.
Representative works of major Greek and Roman authors.

360. Ancient Novel in English Translation
Spring of odd-numbered years. 3(3-0)
R: Not open to freshmen.
Translation of the ancient Greek and Roman novel. Interpretation of assigned novels. The role of popular literature in Greco-Roman society.

400. Women in Classical Greek Society
Spring of odd-numbered years. 3(3-0) Interdepartmental with Women's Studies.
R: Not open to freshmen and sophomores.
Image, role, and status of women in Greek society as seen through literary sources.

491. Topics in Classical Studies
Spring of even-numbered years. 3(3-0)
P: CLA 218; R: Open only to juniors and seniors.
Special topics supplement regular course offerings.

499. Senior Thesis
Fall, Spring, 3(3-0)
P: LTN 402; R: Approval of department.
Scholarly research and writing with a focus on specific problems, under faculty supervision.