M.S. CIVIL ENGINEERING—CONSTRUCTION MANAGMENT

MASTERS OF SCIENCE in CIVIL ENGINEERING

Thesis Option 30 credit hours: 24 credit hours courses, 6 credit hours CE5559 Thesis

Project Option 30 credit hours: 27 credit hours courses, 3 credit hours CE5500 Problems

Coursework Option 30 credit hours: 30 credit hours courses

ADVANCED MATH (MINIMUM OF 1 COURSE)

CE 5501-Optimization of Engineering Systems (EVEN Spring Semesters)

CE 5516—Advanced Engineering Math (EVEN Fall Semesters)

ME 5572-Advanced Statistics (EVERY Spring Semesters)

or 400/500 course from MATH department, (Discuss options with advisor)

EMPHASIS CORE COURSES (MINIMUM OF 3 COURSES)

CE 5501-Construction Project Risk Management (EVERY Fall)

CE 5504-Project Management of Integrated Design and Construction (EVERY Spring)

CE 5568-Construction Planning and Scheduling (EVERY Fall)

CE 5554-River Stability and Scour (ODD Fall)

CE 5501-Blast and Fire Resistance (EVERY Summer online)

CE 5556-Urban Hydrology (ODD Fall)

CE 5501-Applied Soil Structure Interaction (EVEN Fall)

CE 5559-Environmental Compliance and Permitting (EVERY

CE 5501-Hazardous Waste Engineering (EVEN Spring)

Spring)

CE 5505-Capital Projects Delivery Methods (EVERY Fall)

CE 5563-Construction Law (EVERY Spring)

CE 5517-Advanced Structures (EVERY Spring)

CE 5569-Construction Methods and Equipment (EVERY Spring)

CE 5521-Matrix Methods and FEM (ODD Fall)

CE 5570-Corrosion Engineering (EVEN Spring)

CE 5523-Advanced Steel Design (EVEN Fall)

CE 5571-Advanced Portland Cement Concrete (ODD Spring)

CE 5525-Prestressed Concrete (ODD Spring)

CE 5573-Durability of Civil Engineering Materials (ODD Spring)

CE 5527-Advanced Concrete Design (EVEN Spring)

CE 5575-Seismic Design (ODD Fall)

CE 5531-Fundamentals of Geomaterial Characterization (EVEN

CE 5584-Pavement Design, Construction, Maintenance, and

Fall)

Rehabilitation (EVEN Spring)

CE 5536-Advanced Soil Mechanics (ODD Fall)

CE 5679-Dynamics of Structures (ODD Spring)

CE 5542-Hydraulic Structures (EVEN Fall)

CE 5537-Contracts and Law (EVERY Fall)

CE 5552-Open Channel Flow (EVERY Spring)

CE 5553-Hydraulics and Variability of Rivers (EVEN Fall)