M.S. CIVIL ENGINEERING—WATER RESOURCES

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 5552-Open Channel Flow (EVERY Spring Semester)

CE5542-Hydraulic Structures (EVEN Fall Semesters)

CE5553-Hydraulics and Variability of Rivers (EVEN Fall Semesters), or

CE 5554-River Stability and Scour (ODD Fall Semesters)

REGULARLY OFFERED ELECTIVE (MAXIMUM OF 5 COURSES) CE 5536-Advance	ced Soil Mechanics (0	ODD Fall)
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CE 5501-Blast and Fire Resistance (EVERY Summer online) CE 5537-Contracts and Law (EVERY Fall)

CE 5501-Construction Project Risk Management (EVERY Fall) CE 5556-Urban Hydrology (ODD Fall)

CE 5501-Applied Soil Structure Interaction (EVEN Fall) CE 5559-Environmental Compliance and Permitting (EVERY

CE 5568-Construction Planning and Scheduling (EVERY Fall)

CE 5501-Hazardous Waste Engineering (EVEN Spring)

Spring)

CE 5504-Project Management of Integrated Design and Con-

struction (EVERY Spring)

CE 5505-Capital Projects Delivery Methods (EVERY Fall)

CE 5569-Construction Methods and Equipment (EVERY Spring)

CE 5517-Advanced Structures (EVERY Spring) CE 5570-Corrosion Engineering (EVEN Spring)

CE 5521-Matrix Methods and FEM (ODD Fall) CE 5571-Advanced Portland Cement Concrete (ODD Spring)

CE 5523-Advanced Steel Design (EVEN Fall) CE 5573-Durability of Civil Engineering Materials (ODD Spring)

CE 5525-Prestressed Concrete (ODD Spring) CE 5575-Seismic Design (ODD Fall)

CE 5527-Advanced Concrete Design (EVEN Spring) CE 5584-Pavement Design, Construction, Maintenance, and

CE 5531-Fundamentals of Geomaterial Characterization (EVEN Rehabilitation (EVEN Spring)

Fall) CE 5679-Dynamics of Structures (ODD Spring)