# MATHEMATICAL AND COMPUTATIONAL MODELING (M.S.)

## Program Requirements

### Required Courses
- MATH 585 Fundamentals of Scientific Computing 3
- MATH 586 Fundamentals of Mathematical Models 3
- MATH 587 Fundamentals of Optimization 3
- MATH 588 Professional Science Master Mini-Projects 6
- STAT 583 Fundamentals of Data Analysis 3

### Plus Courses
- CMST 582 Techniques of Communication 3
- MGMT 565 Project Management 1.5
- MKTG 531 Contemporary Marketing 1.5

### Electives
Select 3 credits from the following: 3
- ACCT 530 Financial Accounting
- BIOL 515 Population Genetics
- BIOL 550 Topics in Microbiology
- BIOL 572 Wetland Ecology
- BIOL 573 Shoreline Ecology
- BIOL 574 Behavioral Ecology
- CHEM 538 Drug Design in Medicinal Chemistry
- EAES 505 Environmental Geoscience
- EAES 509 Current Issues in Sustainability Science
- EAES 510 Geographic Information Systems
- EAES 511 Fundamentals of Remote Sensing of the Environment
- EAES 531 Hydroclimatology
- EAES 532 Applied Groundwater Modeling
- EAES 535 Geophysics
- ECON 530 Microeconomics for Managers
- ECON 531 Macroeconomics for Managers
- FINC 530 Managerial Finance
- HLTH 502 Determinants of Environmental Health
- HLTH 565 Foundations of Epidemiology
- INBS 561 Emerging Trends in Global Markets
- MGMT 562 Organizational Behavior
- SOCI 581 Sociological Perspectives on Health and Medicine

### Culminating Experience
- MATH 697 Culminating Experience for PSM 6

Total Credits 33