

# QUANTITATIVE ECONOMICS (MS)

| Code                       | Title                                                         | Units     |
|----------------------------|---------------------------------------------------------------|-----------|
| <b>REQUIRED COURSES</b>    |                                                               |           |
| ECON 5010                  | Essential Mathematics for Economic Analysis                   | 3         |
| ECON 5015                  | Computing and Machine Learning for Economics                  | 3         |
| ECON 5020                  | Essential Statistics for Econometrics                         | 3         |
| ECON 5021                  | Advanced Econometrics I                                       | 3         |
| ECON 5022                  | Advanced Econometrics II                                      | 3         |
| ECON 5023                  | Microeconometrics                                             | 3         |
| ECON 5030                  | Microeconomic Analysis                                        | 3         |
| ECON 5040                  | Dynamic Stochastic Modeling                                   | 3         |
| ECON 5597                  | Comprehensive Examination                                     | 0         |
| <b>Approved Electives</b>  |                                                               |           |
| Select from the following: |                                                               | 9         |
| ECON 5012                  | Evidence-Based Decision Analysis                              |           |
| ECON 5016                  | Collaborative Software Development Environment for Economists |           |
| ECON 5024                  | Modeling Financial Time Series                                |           |
| ECON 5025                  | Machine Learning for Prediction and Causal Inference          |           |
| ECON 5031                  | Industrial Economics                                          |           |
| ECON 5032                  | Incentives and Market Design                                  |           |
| ECON 5052                  | Public Economics                                              |           |
| ECON 5053                  | Advanced Labor Economics                                      |           |
| ECON 5061                  | International Economics                                       |           |
| ECON 5071                  | Environmental and Natural Resource Economics                  |           |
| ECON 5500                  | Independent Study                                             |           |
| ECON 5560                  | Applied Economics Project                                     |           |
| ECON 5570                  | Special Advanced Topics                                       |           |
| <b>Total Units</b>         |                                                               | <b>33</b> |