READ CAREFULLY: The courses listed below are approved electives for MSFE, MSBA, MS&E, MSIE and MSOR students. Courses with an asterisk (*) are not approved for the MSFE degree. If a course of your interest is not listed, you must obtain written approval from an advisor (info@ieor.columbia.edu). Include the course title, description and syllabus in your email. Courses below 4000-level (i.e. 3000, 2000, 1000 levels) are not permissible and do not count towards the MS degree.

**Industrial Engineering and Operations Research**
- IEOR E4721 Financial Correlations – Modeling, Trading, Risk Management and AI, Class 5/28-7/12
- IEOR E4722 Modeling and Market-Making in Foreign Exchange (1.5 credits), Class 5/29-7/10 [CANCELLED]
- IEOR E4723 Alternative Investments (1.5 credits), Class 6/3-7/15
- IEOR E4999 Fieldwork

**Business School** (register via cross-registration; MSE & MSBA students register via BOSS)
See: [Pre-Approved List of CBS Electives](#)

**Computer Science** (register via SSOL; schedule)
- COMS S4701 Artificial Intelligence
- COMS S4705 Natural Language Processing
- COMS S4771 Machine Learning (may not be taken, if already completed IEOR E4525 Machine Learning)
- COMS S4995 Fundamentals of Game Design
- COMS S4995 Deep Learning (may not be taken, if already completed IEOR E4720 Deep Learning)
- CSEE S4824 Computer Architecture
- CSOR S4231 Analysis of Algorithms

**Economics** (register via SSOL; schedule)
- *ECON S4251 Industrial Organization
- *ECON S4280 Corporate Finance
- *ECON S4400 Labor Economics
- *ECON S4415 Game Theory (may not be taken, if already completed IEOR E4407; will count as an Analysis Elective for MSE students)
- *ECON S4465 Public Economics

**Mathematics** (register via SSOL; schedule)
- MATH S4061 Introduction to Modern Analysis I
- MATH S4062 Introduction to Modern Analysis II

**Statistics** (register via SSOL; schedule)
- STAT S4199 Statistical Computing in SAS
- STAT S4206/5206 Statistical Computing and Introduction to Data Science
- STAT S4221/5221 Time Series Analysis
- STAT S4241/5241 Statistical Machine Learning (may not be taken, if already completed IEOR E4525 Machine Learning or COMS 4771 Machine Learning)
- STAT S4261/5261 Statistical Methods in Finance