

OPERATIONS & TECHNOLOGY MANAGEMENT CURRICULUM

DEPARTMENT CHAIR

Anita Carson

PHD PROGRAM LIAISON

Marcus Bellamy

COURSE REQUIREMENTS

Main Streams (As the minor class requirements)

- Empirical Operations
 - Analytical Research in Operations Management
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Year One

Fall

- **QST DS 906** Philosophy of Science and Research
(Required for all QST PhD students)
- **GRS EC 701** Microeconomic Theory 1
- **GRS EC 707** Advanced Statistics for Economics
- OTM Core Course
Odd Years: OTM 921 Probability and Stochastic Modelling
Even Years: OTM 926 Supply Chain Models

Spring

- **GRS EC 703** Microeconomic Theory 2
 - **Two electives** from minor area
Recommended for Odd Years:
DS 913 Experimental Design and Methods
 - OTM Core Course
Odd Years: OM 925 Topics in Operations
Even Years: OM XXX Class name here
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Year Two

Fall

- OTM Core Course
Odd Years: OTM 921 Probability and Stochastic Modelling
Even Years: OTM 926 Supply Chain Models
- **Three Electives** from minor area, such as:
 - **Recommended for Odd Years:**
DS 925 Methods for Causal Inference in Management Research
 - **DS XXX** Machine Learning
 - **GRS EC 716** Game Theory

COURSE REQUIREMENTS

Year Two Continued

Spring

- OTM Core Course
Odd Years: **OTM 921** Probability and Stochastic Modelling
Even Years: **OTM 926** Supply Chain Models
 - Electives from minor area
Recommended for Odd Years:
DS 913 Advanced Econometrics 1
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Recommended Minor Courses

Analytical Track

- **GRS EC 716** Game Theory
- **GRS EC 717** Advanced Topics in Microeconomic Theory 1
- **GRS EC 731** Market Organization and Public Policy
- **GRS EC 732** Topics in Industrial Organization
- **ENG SE 524** Optimization Theory and Methods (Fall)
- **ENG SE 714** Advanced Stochastic Models (Spring)
- **ENG SE 724** Advanced Optimization Theory (Spring)
- **ENG SE 725** Queueing Systems (Fall)

Empirical Track

- **GRS EC 709** Advanced Econometrics 2
 - **GRS EC 711** Advanced Topics in Econometrics
 - **GRS EC 712** Time Series Econometrics
 - **GRS EC 732** Topics in Industrial Organization
 - **GRS EC 733** Empirical Industrial Organization
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Additional course that may be interesting to both analytical and empirical track:

- **GRS EC 781/782** Health Economics 1/2
 Has theoretical, empirical and behavioral/experimental treatment
 (Spring)