

# 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
- 

### 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
- 

### 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
- 

### 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
- 

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)