### WPI Foisie Business School

*Curriculum Plan for Master of Science in *

**OPERATIONS AND SUPPLY CHAIN ANALYTICS**

(11 courses, 33 credits)

*All courses are 3 credits each*

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<td>ADVISOR</td>
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**Proposed Course of Study:**

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<th>COURSE NUMBER &amp; TITLE</th>
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**REQUIRED COURSES (3)**

- OIE 501 Operations Management
- OIE 544 Supply Chain Analysis and Design
- OIE 552 Modeling and Optimizing Processes

*MS OSCA students must complete two, three-course specialties, selected from the following:*

#### SPECIALTY IN SUPPLY CHAIN MANAGEMENT

*Choose one course from*

- OIE 549 Sustainable Supply Chain and Operations Management
- OIE 553 Global Purchasing and Logistics

*Choose two courses from*

- MKT 561 Consumer Behavior and Analytics
- OBC 533 Negotiations

- OIE 548 Performance Analytics
- OIE 549 Sustainable Supply Chain and Operations Management
- OIE 553 Global Purchasing and Logistics

#### SPECIALTY IN ADVANCED OPERATIONS ANALYTICS

*Choose one course from*

- MIS 587 Business Applications in Machine Learning
- MKT 562 Marketing Research
- MKT 568 Data Mining Business Applications

*Choose two courses from*

- OIE 542 Risk Management and Decision Analysis
- OIE 548 Performance Analytics
- OIE 559 Advanced Prescriptive Analytics: From Data to Impact

#### SPECIALTY IN OPERATIONAL EXCELLENCE

*Choose one course from*

- OIE 554 Global Operations Strategy
- OIE 558 Designing and Managing Lean Six Sigma Processes

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*Over*
Choose two courses from

FIN 500 Financial Management

MIS 576 Project Management

OBC 537 Leading Change

OIE 554 Global Operations Strategy

OIE 558 Designing and Managing Lean Six Sigma Processes

CUSTOM SPECIALTY *(requires approval; see catalog description)*

RESEARCH SPECIALTY *(requires approval; see catalog description)*

MS OSCA students must complete a two-course capstone project experience as follows:

- OBC 505 Teaming and Organizing for Innovation
- OIE 597 Operations and Supply Chain Consulting Project

Additional recommendation for on campus, international MS OSCA students:

On campus, international students are encouraged to complete up to three additional credits of internship to ensure their readiness for employment in the U.S.

If you have been awarded transfer credit, list the approved courses and credit hours allowed below.

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(To be completed by Advisor)

I have reviewed the Curriculum Plan above and agree that it comprises an acceptable program of study for the degree of Master of Science in Operations and Supply Chain Management

ADVISOR’S SIGNATURE: ____________________________________________

DATE: ____________________________________________

Important Note to Advisors: Once approved, please return the Curriculum Plan to the Executive Director of Business Programs.