OPERATIONS MANAGEMENT (OM)

200 Level Courses

OM 210: Statistical Analysis for Management. 4 credits.
Introduces application of statistical methods to support quantitative decision analysis for resolving business problems. Topics include descriptive statistics, probability, random variables, probability distributions, sampling and sampling distributions, estimation, hypothesis testing, and linear regression (both simple and multiple). Requires extensive use of case studies to integrate, synthesize and extend the concepts presented in order to foster a "learning by doing" approach that develops and promotes critical thinking abilities. Active class discussions via individual and/or group presentations of case assignments is an important learning activity. Extensive use of computer software for statistical modeling, problem solving, and analysis of case studies is a significant component of this course. Offered by School of Business. May not be repeated for credit. Equivalent to OM 203, OM 211.

Registration Restrictions:
Required Prerequisites: MATH 108C, U108, 113C, U113, HNRT 225C or U225.
C Requires minimum grade of C.

Schedule Type: Lecture, Recitation

OM 211: Honors Statistical Analysis for Management. 4 credits.
Introduces the application of statistical methods to support quantitative decision analysis for resolving business problems. Topical coverage includes descriptive statistics, probability, random variables, probability distributions, sampling and sampling distributions, estimation, hypothesis testing, and linear regression (both simple and multiple). Requires extensive use of case studies to integrate, synthesize and extend the concepts presented in order to foster a "learning by doing" approach that develops and promotes critical thinking abilities. Active class discussions via individual and/or group presentations of case assignments is an important learning activity. Extensive use of computer software for statistical modeling, problem solving, and analysis of case studies is a significant component of this course. Offered by School of Business. May not be repeated for credit. Equivalent to OM 210.

Recommended Prerequisite: Cumulative GPA of 3.5 or higher.

Registration Restrictions:
Required Prerequisites: MATH 108C, 113C, HNRT 125C, 225C, MATH U108, U113 or HNRT U225.
C Requires minimum grade of C.

Enrollment limited to students with the Honors College (Business), Honors College (STEM), or Honors College attributes.

Schedule Type: Lecture

300 Level Courses

OM 301: Operations Management. 3 credits.
Examines an organization’s operations, including design, management and improvement processes, projects and supply chains, in both product and service environments. Uses analytical models to support key planning and control activities. School of Business students will not be permitted to make more than three attempts to achieve a C or higher in OM 301. Those who do not successfully complete this course within three attempts will be terminated from their major and will not be eligible to receive a degree from the School of Business. For more information about this, see the "Termination from the Major" section under Academic Policies. Notes: Students cannot receive credit for both OM 301 and OM 303. Offered by School of Business. Limited to three attempts. Equivalent to OM 303.

Registration Restrictions:
Required Prerequisites: (OM 210C or 210T).
C Requires minimum grade of C.

Students with a class of Freshman may not enroll.

Non-Degree level students may not enroll.

Students with the terminated from BU major attribute may not enroll.

Schedule Type: Lecture

OM 303: Operations Management. 3 credits.
Examines an organization’s operations, including design, management and improvement processes, projects and supply chains, in both product and service environments. Uses analytical models to support key planning and control activities. Notes: Students cannot receive credit for both OM 301 and OM 303. School of Business students will not be permitted to make more than three attempts to achieve a C or higher in OM 303. Those who do not successfully complete this course within three attempts will be terminated from their major and will not be eligible to receive a degree from the School of Business. For more information about this, see the "Termination from the Major" section under Academic Policies. Offered by School of Business. Limited to three attempts. Equivalent to OM 301.

Recommended Prerequisite: BUS 103 and BUS 200.

Registration Restrictions:
Required Prerequisites: (ACCT 203C, U203, 204C or U204) and (BUS 100C, SOM 100C or BUS U100) and (BUS 210C or U210) and (MATH 108C, U108, 113C, U113, 114C, U114, HNRT 225C or U225).
C Requires minimum grade of C.

Non-Degree level students may not enroll.

Students with the terminated from BU major attribute may not enroll.

Schedule Type: Lecture

OM 320: Supply Chain Management in a Global Economy. 3 credits.
Design, development, and management of supply chain systems, including production and inventory management, distribution channels, and information systems that support them. Emphasizes impact of e-business on companies and industries, including Internet’s impact on the way goods and services flow through value chain from providers to customers. Offered by School of Business. May not be repeated for credit.

Registration Restrictions:
Required Prerequisites: (DESC 301C, L301, OM 301C, L301 or 303C).
C Requires minimum grade of C.

Students with a class of Freshman may not enroll.

Non-Degree level students may not enroll.

Students with the terminated from BU major attribute may not enroll.

Schedule Type: Lecture

OM 352: Management Science. 3 credits.
Introduces operation research and management sciences (OR/MS) techniques for supporting business management decisions. Specific mathematical programming and probabilistic topics include linear
programming, integer programming, goal programming, network flow models, decision analysis, game theory, queuing models, and Monte Carlo simulation. Offered by School of Business. May not be repeated for credit.

**Registration Restrictions:**

**Required Prerequisites:** (DESC 301\(^c\), L301, OM 301\(^c\) or L301) or OM 303\(^c\) or L303.

\(^c\) Requires minimum grade of C.

Students with a class of Freshman may not enroll.

Non-Degree level students may not enroll.

Students with the terminated from BU major attribute may not enroll.

**Schedule Type:** Lecture

### 400 Level Courses

**OM 435: Business Process Analysis and Simulation.** 3 credits.
Introduces concepts and tools used in designing, modeling, analyzing, and improving business processes. Various business process analysis and simulation methods, such as process mapping/flowcharting, process flow and capacity analysis, service process design, theory of constraints, process modeling and simulation, and business process reengineering are discussed. Introduces methods and analytical tools such as queue theory and computer simulation used to design, model, analyze, and improve business processes. Discusses methods such as process mapping/diagramming, service process design, process modeling, and business process reengineering. Offered by School of Business. May not be repeated for credit.

**Registration Restrictions:**

**Required Prerequisites:** (DESC 301\(^c\), L301, OM 301\(^c\) or L301) or OM 303\(^c\) or L303.

\(^c\) Requires minimum grade of C.

Students with a class of Freshman or Sophomore may not enroll.

Non-Degree level students may not enroll.

Students with the terminated from BU major attribute may not enroll.

**Schedule Type:** Lecture

**OM 452: Business Forecasting.** 3 credits.
Introduces techniques for producing predictions of future business operations as aids to making planning decisions. Specific topics include judgmental forecasting, forecast accuracy, correlation analysis, smoothing methods, regression models, decomposition, and autoregressive and ARIMA models. Methods demonstrated and used through computer software. Offered by School of Business. May not be repeated for credit.

**Registration Restrictions:**

**Required Prerequisites:** (DESC 301\(^c\), L301, OM 301\(^c\) or L301) or OM 303\(^c\) or L303.

\(^c\) Requires minimum grade of C.

Students with a class of Freshman or Sophomore may not enroll.

Non-Degree level students may not enroll.

Students with the terminated from BU major attribute may not enroll.

**Schedule Type:** Lecture

**OM 456: Quality Management.** 3 credits.
Provides an understanding of the multifaceted nature of quality management by emphasizing topics such as quality philosophies, total quality management, design quality, process quality, and managing quality in information systems development. Discusses ISO 9000 and Capability Maturity Model. Uses software, case studies. Offered by School of Business. May not be repeated for credit.

**Registration Restrictions:**

**Required Prerequisites:** (DESC 301\(^c\), L301, OM 301\(^c\) or L301) or OM 303\(^c\) or L303.

\(^c\) Requires minimum grade of C.

Students with a class of Freshman or Sophomore may not enroll.

Non-Degree level students may not enroll.

Students with the terminated from BU major attribute may not enroll.

**Schedule Type:** Lecture

**OM 462: Honors Seminar in Operations Management (Topic Varies).** 3 credits.
Topic and format vary. In-depth study of a topic in the area of operations management. Enrollment limited and competitive. Offered by School of Business. May not be repeated for credit.

**Recommended Prerequisite:** Degree status in ISOM major; senior standing; permission of department.

**Registration Restrictions:**

Students with the terminated from BU major attribute may not enroll.

**Schedule Type:** Seminar

**OM 491: Seminar in Operations Management.** 3 credits.
Analyzes selected topics that highlight latest developments in the operations management field, including contemporary research findings and case studies of operations management in business and other organizations. Offered by School of Business. May not be repeated for credit.

**Registration Restrictions:**

Students with the terminated from BU major attribute may not enroll.

**Schedule Type:** Seminar

**OM 493: Management of Technology Projects.** 3 credits.
Focuses on managerial problems associated with meeting technical, cost, and time constraints of technology projects. Discusses project management areas including organization, teams, scheduling, cost control, earned value analysis, risk management, and quality. Includes software cost estimation models and the management of IT projects. Software and case studies. Offered by School of Business. May not be repeated for credit.

**Registration Restrictions:**
**Required Prerequisites:** (OM 301\(^c\), L301, DESC 301\(^c\) or L301) or OM 303\(^c\) or L303.
\(^c\) Requires minimum grade of C.

Students with a class of Freshman or Sophomore may **not** enroll.

Non-Degree level students may **not** enroll.

Students with the terminated from BU major attribute may **not** enroll.

**Schedule Type:** Lecture

**OM 499: Independent Study in Operations Management.** 1-3 credits.
By special arrangement with instructor, and approval from associate dean for undergraduate programs. Investigates business problem according to student interest, using state-of-the-art decision science methodology. Offered by School of Business. May be repeated within the term for a maximum 6 credits.

**Registration Restrictions:**
**Required Prerequisites:** (DESC 301\(^c\), L301, OM 301\(^c\) or L301) or OM 303\(^c\) or L303.
\(^c\) Requires minimum grade of C.

Students with a class of Freshman or Sophomore may **not** enroll.

Non-Degree or Washington Consortium level students may **not** enroll.

Students with the terminated from BU major attribute may **not** enroll.

**Schedule Type:** Independent Study