OPERATIONS MANAGEMENT (OM)

300 Level Courses

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. The third attempt requires School of Business academic advisor approval. 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 (http://catalog.gmu.edu/colleges-schools/business/). Limited to two attempts. Equivalent to OSCM 303.

Recommended Prerequisite: BUS 103 and BUS 200.

Registration Restrictions:
Required Prerequisites: BUS 210C, U210 or 210XS.
C Requires minimum grade of C.
XS Requires minimum grade of XS.

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
Grading:
This course is graded on the Undergraduate Regular scale. (http://catalog.gmu.edu/policies/academic/grading/)

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 (http://catalog.gmu.edu/colleges-schools/business/). Limited to two attempts. Equivalent to OSCM 352.

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

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
Grading:
This course is graded on the Undergraduate Regular scale. (http://catalog.gmu.edu/policies/academic/grading/)

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. A third attempt will require academic advisor approval. Offered by School of Business (http://catalog.gmu.edu/colleges-schools/business/). Limited to two attempts. Equivalent to OSCM 435.

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

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
Grading:
This course is graded on the Undergraduate Regular scale. (http://catalog.gmu.edu/policies/academic/grading/)
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 (http://catalog.gmu.edu/colleges-schools/business/). Limited to two attempts. Equivalent to OSCM 452.

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

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

Grading:
This course is graded on the Undergraduate Regular scale. (http://catalog.gmu.edu/policies/academic/grading/)

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. A third attempt will require academic advisor approval. Offered by School of Business (http://catalog.gmu.edu/colleges-schools/business/). Limited to two attempts. Equivalent to OSCM 456.

Specialized Designation: Writing Intensive in Major

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

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: Seminar

Grading:
This course is graded on the Undergraduate Regular scale. (http://catalog.gmu.edu/policies/academic/grading/)

OM 492: Internship in Operations Management. 3 credits.
Opportunity to gain practical, professional experience in conjunction with academic development. An internship is an important part of academic and career preparation. May be used as elective credit, but may not be repeated. Notes: No more than 6 credits of School of Business internship coursework (BUS 492 or OM 492) can be applied towards a student’s 120 (BU) degree applicable credits. Students must receive departmental approval in order to register for this course; please contact the School of Business Office of Career Services for internal eligibility requirements. Offered by School of Business (http://catalog.gmu.edu/colleges-schools/business/). May be repeated within the degree for a maximum 6 credits. Equivalent to ACCT 492, BUS 492, FNAN 492, MGMT 492, MIS 492, MKTG 492, OSCM 492.

Recommended Prerequisite: 75 credit hours

Registration Restrictions:
Required Prerequisites: (OM 301B or 303B) and (MIS 301B or 303B).
B Requires minimum grade of B.

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: Internship
Grading:
This course is graded on the Undergraduate Regular scale. (http://catalog.gmu.edu/policies/academic/grading/)

**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 (http://catalog.gmu.edu/colleges-schools/business/). Limited to two attempts. Equivalent to OSCM 493.

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

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

Grading:
This course is graded on the Undergraduate Regular scale. (http://catalog.gmu.edu/policies/academic/grading/)

**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 (http://catalog.gmu.edu/colleges-schools/business/). May be repeated within the term for a maximum 6 credits. Equivalent to OSCM 499.

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

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

Grading:
This course is graded on the Undergraduate Regular scale. (http://catalog.gmu.edu/policies/academic/grading/)