



Management Science (MGSC) 368

Introduction to Production and Operations Management (Revision 11)

Status:

Replaced with new revision, see the [course listing](#) for the current revision

Delivery mode:

Individualized study online with eText

Credits:

3

Area of study:

Applied Studies (Business and Administrative Studies)

Prerequisites:

MGSC 301 or MATH 215. Students should be comfortable with basic algebra.

Precluded:

None

Challenge:

MGSC 368 has a challenge for credit option.

Faculty:

Faculty of Business

Notes:

Students registering in grouped study mode are advised that there may be some differences in the evaluation and course materials information indicated below. To obtain the most up-to-date information,

contact the Faculty of Business Student Support Centre at 1-800-468-6531.

Overview

MGSC 368 is a three-credit management science course that examines production and operations management (POM) and discusses its importance to the overall strategy and competitiveness of a firm. This course also focuses on specific tools used to manage and enhance a firm's operations and production, such as facility layout, product design, aggregate planning, inventory management, and forecasting.

Credits earned in MGSC 368 may be applied toward the **Canadian Operational Research Society (CORS)** [↗](#) diploma. For more information regarding the CORS diploma, direct email to walid@athabascau.ca.

Outline

MGSC 368 comprises 10 lessons:

- Lesson 1: Introduction to Operations and Supply Chain Management
- Lesson 2: Product Design and Process Analysis and Selection
- Lesson 3: Facility Layout
- Lesson 4: Demand Management and Forecasting
- Lesson 5: Aggregate Planning
- Lesson 6: Inventory Systems for Independent Demand
- Lesson 7: Material Requirements Planning
- Lesson 8: Operations Scheduling
- Lesson 9: Quality Management and Statistical Quality Control
- Lesson 10: Project Management

Evaluation

To **receive credit** [↗](#) for MGSC 368, you must achieve a minimum grade of D (50 percent) on each examination and a minimum overall grade of **D (50 percent)** [📄](#) for the entire course. The following chart summarizes the evaluation activities:

Activity	Weight
Assignment 1	20%
Midterm Exam	30%
Assignment 2	20%
Final Exam	30%
Total	100%

The **final examination** for this course must be requested in advance and written under the supervision of an AU-approved exam invigilator. Invigilators include either ProctorU or an approved in-person invigilation centre that can accommodate online exams. Students are responsible for payment of any invigilation fees. Information on exam request deadlines, invigilators, and other exam-related questions, can be found at the **Exams and grades** [↗](#) section of the Calendar.

To learn more about assignments and examinations, please refer to Athabasca University's **online Calendar** [↗](#).

Materials

Jacobs, F. R., & Chase, R. B., (2021). *Operations and supply*

management (16th ed.). McGraw-Hill. ISBN: 9781260579437  (eText)

eText

Registration in this course includes an electronic textbook. For more information on **electronic textbooks** [↗](#), please refer to our **eText Initiative site** [↗](#).

Other Resources

All other learning resources will be available online.

Challenge for credit

Overview

The challenge for credit process allows you to demonstrate that you have acquired a command of the general subject matter, knowledge, intellectual and/or other skills that would normally be found in a university-level course.

Full information about **challenge for credit** [↗](#) can be found in the Undergraduate Calendar.

Evaluation

To **receive credit** [↗](#) for the MGSC 368 challenge registration, you must achieve a grade of at least **D (50 percent)** [📄](#) on the examination.

Online Exam



Challenge for credit course registration form

Important links

- › [Academic advising](#) [↗](#)
- › [Program planning](#) [↗](#)
- › [Request assistance](#) [↗](#)
- › [Support services](#) [↗](#)

Athabasca University reserves the right to amend course outlines occasionally and without notice. Courses offered by other delivery methods may vary from their individualized study counterparts.

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View **previous revision** 
