Mathematics (MATH) 244

Business Mathematics (Revision 9)

Status:	Replaced with new revision, see the **course listing** for the current revision ⊗
Delivery mode:	Individualized study online
Credits:	3
Area of study:	Science
Prerequisite:	None
Precluded:	None
Challenge:	MATH 244 has a challenge for credit option.
Faculty:	Faculty of Science and Technology
Notes:	You are expected to perform basic arithmetic operations (addition, subtraction, multiplication, division) with ease and be familiar with fractions, algebraic operations, and basic mathematical principles.

Mathematics Assessment. This 70-question evaluation will help you assess your mathematical skills. Based on your score, an instructor will recommend which Athabasca University |

mathematics course you are most likely ready to
successfully complete.

Overview

MATH 244 is designed to introduce the basic mathematical skills needed to
understand, analyze, and solve mathematical problems encountered in business
and finance and in investment decision making.

Outline

The following topics are covered in this course:

- Unit 1: Back to the Basics

- Unit 2: General Business Management Applications

- Unit 3: Marketing and Accounting Fundamentals

- Unit 4: Marketing Applications

- Unit 5: Simple Interest

- Unit 6: Compound Interest

- Unit 7: Annuities

- Unit 8: Loans and Mortgages

- Unit 9: Bonds and Sinking Funds

- Unit 10: Investment Decisions

Learning outcomes

Upon successful completion of this course, you should be able to

- demonstrate mastery of mathematical concepts that are foundational in
  business mathematics, including functions and their mappings, linear systems
  and their solutions, and descriptive statistics and their applications.

- demonstrate an understanding of basic marketing mathematics by solving relevant problems, including trade discounts, cash discounting, and markup and markdown calculations.

- apply the principles of simple interest to solve relevant problems in financial applications such as simple-interest-based loans.

- use the principles of compound interest to solve relevant problems in financial applications—for example, those involving annuities, loans and mortgages, bonds and sinking funds, and investment decisions.

Evaluation

To **receive credit** ☑ for MATH 244, you must achieve a course composite grade of at least **D (50 percent)** 🅐 and a grade of at least 50 percent on each term test and case study.

The weighting of the composite grade is as follows:

Activity	Weight
Quizzes 1–10	50% (5% each)
Term Test 1	10%
Term Test 2	10%
Case Study 1	15%
Case Study 2	15%
Total	**100%**

To learn more about assignments and examinations, please refer to Athabasca University's **online Calendar**.

Materials

This course either does not have a course package or the textbooks are open-source material and available to students at no cost. This course has a **Course**

Administration and Technology Fee, but students are not charged the Course Materials Fee.

Resources

All learning resources for this course are available online.

Special Course Features

MATH 244 is the first course at Athabasca University to pilot DigitalEd's courseware solution, Möbius.

Möbius is a powerful interactive learning platform that provides you with access to an integrated course study guide featuring business mathematics lessons and practice questions. These questions will help you engage and test your understanding of the material with real-time feedback. MATH 244 assessments are also delivered in the Möbius environment.

Learn more about Möbius.

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 MATH 244 challenge registration, you must achieve a grade of at least **D (50 percent)** ⧉ on the examination and at least 50 percent on the case studies.

Activity	Weight
Examination	50%
Case Studies	50%

Activity	Weight
Total	**100%**

Note: The challenge for this course is delivered in **Möbius**.

📄 **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.

Opened in Revision 9, June 30, 2023

Updated December 10, 2024

View **previous revision** 📄