

**COURSE OUTLINE**

**MATH 141**

**MATHEMATICS FOR BUSINESS**

**3** **CREDITS**

PREPARED BY: Annie-Claude Letendre, Instructor DATE: December 10, 2019

APPROVED BY: Stephen Mooney, Interim Dean DATE: December 24, 2019

APPROVED BY ACADEMIC COUNCIL: Click or tap to enter a date

RENEWED BY ACADEMIC COUNCIL: Click or tap to enter a date





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Academic Council, Governance Office

Academic Council MyYC: Policies, Procedures and Forms

**MATHEMATICS FOR BUSINESS**

**INSTRUCTOR: Annie-Claude Letendre OFFICE HOURS: tbd**

**OFFICE LOCATION: A2208 CLASSROOM:** **A2206**

**E-MAIL: aletendre@yukoncollege.yk.ca TIME: M/W 10:30 AM – 11:55 AM**

**TELEPHONE: (867) 456-6984 DATES: January 6th – April 15th**

**COURSE DESCRIPTION**

This course will provide foundational material that is used throughout the Bachelor of Business Administration program. Students will learn and practice basic operations in arithmetic and apply financial math formulas to real world northern examples. Various strategies for solving business math problems will be explored such as mathematical skills, use of calculators, and estimation skills.

**PREREQUISITES**

Math 050 (YC) or Pre-Calculus 11.

**EQUIVALENCY OR TRANSFERABILITY**

This course is new and its transferability is still being evaluated. Receiving institutions always determine course transferability. Further information and assistance with transfers may be available from the School of Applied Science and Management.

**LEARNING OUTCOMES**

*Upon successful completion of the course, students will be able to:*

• Demonstrate proficiency in calculating basic operations in arithmetic involving fractions, decimals, and/or percentages.

• Manipulate formulas for different variables using basic algebra skills.

• Apply appropriate financial formulas to problems involving the time value of money.

• Apply simple interest and compound interest formulas to real world examples.

• Solve basic finance word problems using calculators.

• Apply appropriate strategies and formulas to solve basic problems in counting methods.

• Analyze computational results and compare with estimated results to ensure results are realistic.

**COURSE FORMAT**

This course will be a total of 45 hours, including a final exam. Classes will include lectures and some online learning on Moodle.

**ASSESSMENTS:**

**Attendance & Participation**

Students are expected to attend regularly, complete all assignments, come to class ready and prepared to learn, and participate actively in class activities.

**Assignments**

There will be 6 assignments based on material learned. Credit will be given for the best 5 out of 6 assignments.

**Tests**

There will be a set of 6 quizzes (credit given for best 5 out of 6 quizzes), midterm examination and final examination.

**Projects**

There will be one case studies to allow students to study more in-depth a particular area in business mathematics.

A minimum of 50% is required to pass this course.

**Late assignments will lose 10% per day penalty for each of the first three days. The due date is considered Day 1. No assignment will be marked after the three-day penalty period.**

**EVALUATION:**

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| --- | --- |
| Assignments (5 out of 6) | 30% |
| Midterm Exam (1) | 20% |
| Quizzes (5 out of 6) | 15% |
| Projects (1) | 15% |
| Final Exam (1) | 20% |
| Total | 100% |

**REQUIRED TEXTBOOKS AND MATERIAL**

Olivier, Jean-Paul. (2017). BUSINESS MATH: A Step-By-Step Handbook. <https://lila1.lyryx.com/textbooks/OLIVIER_1/marketing/Olivier-BusinessMath-2018B.pdf>

You will also require a Texas Instruments BAII+ Calculator

**ACADEMIC AND STUDENT CONDUCT**

Information on academic standing and student rights and responsibilities can be found in the current Academic Regulations that are posted on the Student Services/ Admissions & Registration web page.

**PLAGIARISM**

Plagiarism is a serious academic offence. Plagiarism occurs when a student submits work for credit that includes the words, ideas, or data of others, without citing the source from which the material is taken. Plagiarism can be the deliberate use of a whole piece of work, but more frequently it occurs when students fail to acknowledge and document sources from which they have taken material according to an accepted manuscript style (e.g., APA, CSE, MLA, etc.). Students may use sources which are public domain or licensed under Creative Commons; however, academic documentation standards must still be followed. Except with explicit permission of the instructor, resubmitting work which has previously received credit is also considered plagiarism. Students who plagiarize material for assignments will receive a mark of zero (F) on the assignment and may fail the course. Plagiarism may also result in dismissal from a program of study or the College.

**YUKON FIRST NATIONS CORE COMPETENCY**

Yukon College recognizes that a greater understanding and awareness of Yukon First Nations history, culture and journey towards self-determination will help to build positive relationships among all Yukon citizens. As a result, to graduate from ANY Yukon College program, you will be required to achieve core competency in knowledge of Yukon First Nations. For details, please see [www.yukoncollege.yk.ca/yfnccr](http://www.yukoncollege.yk.ca/yfnccr).

**ACADEMIC ACCOMMODATION**

Reasonable accommodations are available for students requiring an academic accommodation to fully participate in this class. These accommodations are available for students with a documented disability, chronic condition or any other grounds specified in section 8.0 of the Yukon College Academic Regulations (available on the Yukon College website). It is the student’s responsibility to seek these accommodations. If a student requires an academic accommodation, he/she should contact the Learning Assistance Centre (LAC): lac@yukoncollege.yk.ca.

**TOPIC OUTLINE (subject to revision)**

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| **Week** | **Material Covered** | **Assessment** |
| Jan 6-8 | Course Introduction &  Chapter 2: Back to the Basics |  |
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| Jan 13-15 | Chapter 3: General Business Management Applications |  |
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| Jan 20-22 | Chapter 6: Marketing Applications |  |
| A1 due |
| Jan 27-29 | Chapter 8: Simple Interest: Working with Single Payments/Applications | Quiz 1 |
|  |
| Feb 3-5 | Chapter 9: Compound Interest: Working with Single Payments | Quiz 2 |
| A2 due |
| Feb 10 | Review Midterm |  |
| **Feb 12** | **Midterm: Chapters 2, 3, 6, 8, 9** | |
| Feb 17-19 | Chapter 11: Compound Interest: Annuities | Quiz 3 |
|  |
| Feb 24-26 | Chapter 12: Compound Interest: Special Applications of Annuities | A3 due |
|  |
| Mar 2 | Case Study Research | |
| Mar 4 | Chapter 13: Understanding Amortization & Applications | Quiz 4 |
| Mar 9-11 | Annuities Review | A4 due |
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| Mar 16-18 | Reading Week – No Class | |
| Mar 23-25 | Chapter 14: Bonds and Sinking Funds  Principle of Counting | Quiz 5 |
|  |
| Mar 30-April 1 | Course Review | Draft due |
| A5 due |
| April 6-8 | Case Study 2 Presentations  Review | Report due |
| A6 due |
| April 13 | Easter Monday (Holiday) -No Class | |
| April 15 | Yukon College is following a Friday Schedule – No Class | |
| April 28 | **9 – 12 Final Exam** | |