YukonCollege

COURSE OUTLINE

MATH 141

MATHEMATICS FOR BUSINESS

3 CREDITS

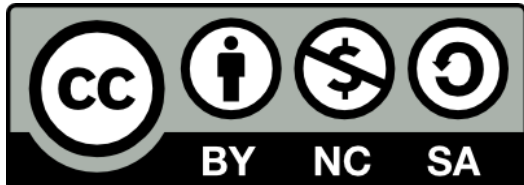PREPARED BY: Lisa Kanary, Instructor   DATE: August 13, 2019

APPROVED BY: Stephen Mooney, A/Dean   DATE: August 20, 2019

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

Version 1.1 revised and approved by Academic Council: June 20, 2018
Academic Council, Governance Office
Academic Council MyYC: Policies, Procedures and Forms

MATHEMATICS FOR BUSINESS

INSTRUCTOR: Lisa Kanary	**OFFICE HOURS:** TBD
OFFICE LOCATION: A2435	**CLASSROOM:** A2402
E-MAIL: lkanary@yukoncollege.yk.ca	**TIME:** M/W 2:30pm-3:55pm
TELEPHONE: 867-668-8863	**DATES:** Sept. 4 – Dec. 4, 2019

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.

RELATED COURSE REQUIREMENTS

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 11 assignments based on material learned. Credit will be given for the best 10 out of 11 assignments. Late assignments are subject to a late penalty of 10% per day.

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 two 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.

EVALUATION:

Assignments (11)	30%
Midterm Exam (1)	20%
Quizzes (5)	15%
Projects/group work (2)	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. Estimated cost - $60.00

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.

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

Week	Chapters	Material Covered
Sept. 4	Chapter 1	Course Introduction & Chapter 1: How to Use This Textbook
Sept. 9 & 11	Chapter 2	Chapter 2: Back to the Basics
Sept. 16 & 18	Chapter 3	Chapter 3: General Business Management Applications
Sept. 23 & 25	Chapter 6	Chapter 6: Marketing Applications
Sept. 30 & Oct. 2	Chapter 8	Chapter 8: Simple Interest: Working with Single Payments/Applications
Oct. 7 & 9	Chapter 9	Chapter 9: Compound Interest: Working with Single Payments & Case Study 1 Presentations
Oct. 16	Midterm	Chapters 1 – 3, 6, 8
Oct. 21 & 23	Chapter 11	Chapter 11: Compound Interest: Annuities
Oct. 28 & 30	Chapter 12	Chapter 12: Compound Interest: Special Applications of Annuities
Nov. 4 & 6	Chapter 13	Chapter 13: Understanding Amortization & Its Applications
Nov. 13 & 14	Chapter 14	Chapter 14: Bonds and Sinking Funds
Nov. 18 & 20	Chapter 15	Chapter 15: Making Good Decisions
Nov. 25 & 27	Principle of Counting	Principle of Counting & Case Study 2
Dec. 2 & 6	Final Exam Review & Presentations	Chapters 1 – 3, 6, 8, 9, 11, 12, 13, 14, 15 Case Study 2 Presentations