

**Columbia College  
Foundation Mathematics for Professionals (MAT0101)**

**Lecture 1**

**Course Outline**

Semester Dates: September 05, 2022 – October 8, 2022

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Class Time: 5:30 PM - 9:30 PM (Mon./Wed.)

Room: Online class (MS Teams)

Credit: Non-Credit Course

Prerequisite: None

Note: It is the student's responsibility to be familiar with the information contained in the Course Outline and to clarify any areas of concern with the facilitator.

When a holiday falls on a scheduled class day or a class needs to be rescheduled, a make-up class will be scheduled for Friday of the same week. Students are required to be present at the rescheduled class.

Please note the 2022 statutory holiday, Labour Day falls on Monday September 5 of this calendar year. As a result, the Monday September 5, 2022 class will be cancelled. Students will be required to attend a rescheduled class on Friday September 9, 2022. This means the week of September 5-9, 2022, students will attend classes Wednesday September 7 and Friday September 9, 2022 from 5:30 PM - 9:30 PM. The following week, September 12-16, 2022, the delivery schedule will return to Monday and Wednesday evening classes.

**Course Description:**

This course is for students who intend to enter a professional program and may require a refresher in key mathematical concepts applicable to their education and professional goals. It will provide students with a multidimensional, contextual learning experience for the acquisition of pre-requisite content and skills in mathematics including concepts, terms, expressions, applications, equations, and problem-solving. The course will cover basic math skills, fractions, decimals, percentages, ratio and proportion, basic algebra, equations, metric system, and problem solving. (5 weeks, 40 hrs.)

Classes are held online. Students will need access to a computer or quality tablet (iPad, etc.), a microphone, a camera, and a reliable internet connection during the scheduled class times; a laptop or regular computer works best. Instructions and login information for Microsoft Teams (online classroom) and Moodle will be provided to new students before classes begin.

**Because Columbia College Calgary is taking steps to return to normal, the final exam will be held on campus. All students living within a 130 km radius of Calgary are expected to attend in person. The college is committed to following Alberta Health protocols for pandemic safety. Depending on public health measures, the exam may be moved online. Should this change occur, adequate notice will be provided to the students.**

**Learning Outcomes:**

As a result of active participation in these sessions, a student can expect to demonstrate a high level of understanding and accuracy in the following areas:

- Whole Numbers
- Fractions
- Decimal Numbers
- Percentages, Ratios, and Proportions
- Positive and Negative Numbers & Order of Operations

- Equations
- The Metric System

### **Course Format:**

This course uses a variety of teaching/learning methods including discussion, personal reflection, experiential exercises, student presentations, role-plays, group activities and especially case studies. Our faculty aims to create a learning environment where the learner is actively engaged in inquiry, critical thinking and problem solving. The classroom provides you with a place where you can learn with and from others in a cooperative and collaborative manner.

Learners are expected to take a very active part in class discussions and take responsibility for their own learning. Be a positive and co-operative team member. Columbia College uses a facilitation model of instruction where the facilitator's role is to facilitate learning. The expectation is that students will come to class prepared with pre-class homework completed. The facilitator will engage learners in activities that are based on their completed homework and readings. An enthusiastic and positive approach in the classroom will create an atmosphere that will help every student develop the knowledge, skills and attitudes that are needed for success.

How students conduct themselves in our classes will, to a large extent, mirror their conduct in society and at a future work site. For example, if they tend to ask questions, challenge the ideas of others in a respectful manner, draw out the best from their colleagues, and encourage both group development and task accomplishment in this class, it is likely they will do the same at work. A high level of student involvement and developing professionalism is expected in the classroom as learners work towards their goals.

### **Required Textbooks and Equipment:**

Columbia College Math 101 Workbook  
Raines, V. (2010). *Basic Math Review for Nurses*. Philadelphia, 2<sup>nd</sup> Edition: F.A. Davis Company

Please call the Main Office (403-235-9300) to make arrangements for payment and textbook pick up.

### **Homework Assignment Due for the First Class:**

Please review the basic skills you may have forgotten. The basic times tables are critical. You can download an app for your phone (search in the Play Store/App-Store for "Multiplication Flash Cards") or visit [multiplication.com](http://multiplication.com) and use the "Multiplication Games" link to find "Flash II."

Read Chapter 1 in the Raines Textbook. If you have forgotten how to do anything, go to [MathAntics.com](http://MathAntics.com) and watch the videos on that topic. Be prepared for a quiz on this homework.

Prepare 3 questions that have arisen from your reading that you would like to have answered. You will be instructed on how to submit these questions to your facilitator on the first day of your course.

Please note: You will not be reading the text in class. Columbia College follows a facilitation model that requires everyone to participate in the class. Please ensure that you know as much as possible before the class begins because there is not time to go over everything before writing a quiz.

## Evaluation - Assessment of Student Performance:

The final grade in the course will be based on the following elements. Wherever possible, facilitators will use rubrics to assess student performance and offer feedback.

Title of Assignment/Examination	Due Date	Weight
In Class Review Assignments	Class 5 & 8	20%
Daily tests	Daily	30%
Final Exam	Class 10	50%

Please note that all homework and assignments are due at the beginning of each class.

## Grading:

Grades for each component will be added together at the end of the semester. The final total will be translated to the Columbia College's 4.0 grading scale as follows:

### Marking and Grading Conversion:

Description	Letter Grade	Grade Points	Percentage Scale	
Excellent	A+	4.0	100	95
	A	4.0	94	90
	A-	3.7	89	85
Good	B+	3.3	84	80
	B	3.0	79	75
	B-	2.7	74	70
Satisfactory	C+	2.3	69	65
	C	2.0	64	60
	C-	1.7	59	55
Poor	D	1.0	54	50
Failure	F	0.0	49	0

Please note that the passing grade is "C+" in this course.

## Submission and Completion of Assignments:

You are expected to submit assignments by the due date. Any late assignments may be assessed a marking penalty of 5% per day. If you are unable to submit an assignment on the due date, you must request an extension **before** the due date by filling out an *Application for Assignment Extension form (SSPP-F012)* that is to be submitted to the Department Chair for approval. This form is available on Columbia's website, Bldg. 802 – Main Office and from Department Chairs.

## Requesting an Examination Deferral:

If you are requesting an exam to be deferred, you must submit an *Application for Deferred Examinations form (SSPP-F012)* to the Department Chair **within 48 hours of the missed examination date and time**. Applications for deferred examinations will only be considered due to medical or personal emergency. A medical certificate or other appropriate documentation may be required. This form is available on Columbia's website, Bldg. 802-Main Office and from Department Chairs.

### **Attendance Requirements:**

Columbia College believes that students are committed to their program and learning experiences. However, it is understood that there are times when students may be absent. Any absences can be viewed as a potentially serious disruption of the learning process and necessary achievement of the learning objectives. Being late is also considered unacceptable as it interferes with the learning opportunities of others. Unavoidable absences or lateness must be reported to the course facilitator in advance. Please refer to Columbia College's *Attendance Policy and Regulations (ADM-P151)* for detailed information on Attendance Requirements.

### **Academic Integrity:**

Academic dishonesty is a serious offence and can result in suspension or expulsion from Columbia College.

There is no tolerance for academic dishonesty and any student caught plagiarizing is subject to serious sanctions as outlined in the *Student Code of Conduct Policy (ADM-P229)*. Students are encouraged to familiarize themselves with this policy and avoid any behavior that could possibly be seen as cheating, plagiarizing, misrepresenting, or putting into question the integrity of one's academic work.

### **Student Conduct:**

It is the responsibility of each student to uphold the expectations and responsibilities outlined in the *Student Code of Conduct Policy (ADM-P229)* and any additional requirements established by your program.

Generally, each student will:

- be respectful and courteous toward others.
- demonstrate appropriate and supportive communication skills, and coach, assist, advise and otherwise support other students in their studies.
- manage any personal stress and conflict in a positive and resourceful manner, and assist others to do the same.
- be dressed in a manner appropriate for their workplace or learning environment, as established by the program.
- conduct themselves in a professional manner with regard to their communication with others and their behavior in class.
- conduct themselves with academic integrity in all of their learning activities, tests, exams, and assignments.
- keep up with day-to-day classroom and course expectations.

## Important Dates:

<b>Description</b>	<b>Date</b>
Last to add/drop courses	5 school operating days from the start of the semester OR before the third scheduled class, whichever is greater
Last day to withdraw without academic penalty	50% or less of the semester has been completed
Final Examination	A final exam may take many formats. If a final exam is scheduled, it will be taken in an assigned room under the supervision of a Test Proctor. <u>Students must be on time as they will not be permitted to enter once the exam has started.</u> Exam schedules are available in each building on a bulletin board, as well as online at <a href="http://www.columbia.ab.ca/exams">www.columbia.ab.ca/exams</a> . <u>It is the student's responsibility to check this exam posting.</u>

## Appeals:

Please refer to the *Student Appeal Policy (ADM-P177)*.

## Students with Temporary or Permanent Disabilities:

Students with temporary or permanent disabilities or medical condition may apply for accommodations. To be considered for an accommodation, a student must register with Columbia College's Accessibility Services by making an appointment with a Accessibility Services Advisor – Main Office – Bldg. 802 or emailing [accessibilityservices@columbia.ab.ca](mailto:accessibilityservices@columbia.ab.ca). The Department Chair or facilitator is not able to provide you with any accommodations without you taking this step. Please refer to Columbia College's website to review *the Accommodation Policy and Handbook (ADM-P188)*.

## Student Support:

Students should be aware that Life Coaching, Career and Disability Services, and Student Support Services (i.e., tutoring, academic strategists, etc.) are provided by Columbia College. Inquire how to request these services at the Main Office in building 802. It is the student's responsibility to discuss their specific learning needs with the appropriate service provider.

### Class Schedule/Overview:

Please note that this schedule is subject to change. Any changes or cancellations will be emailed to you. It is your responsibility to check the email address you have given to the school on a daily basis for any messages from the Department Chair/designate, facilitator or College Administration. It is the student's responsibility to be familiar with the information contained in the Course Outline and to clarify any areas of concern with the facilitator. Additional homework may be assigned in class.

Class Session	Topics	Pre-Class Readings
1	Whole Numbers	<ul style="list-style-type: none"><li>• Raines Chapter 1</li><li>• Multiplication speed review</li></ul>
2	Fractions	<ul style="list-style-type: none"><li>• Raines Chapter 2</li><li>• Homework as assigned by facilitator</li></ul>
3	Decimal Numbers	<ul style="list-style-type: none"><li>• Raines Chapter 3</li><li>• Homework as assigned by facilitator</li></ul>
4	Percents, Ratios and Proportions	<ul style="list-style-type: none"><li>• Raines Chapter 4</li><li>• Homework as assigned by facilitator</li></ul>
5	Review of Chapters 1 - 4	<ul style="list-style-type: none"><li>• Raines Chapters 1 - 4</li><li>• Homework as assigned by facilitator</li><li>• <b>In class assignment</b></li></ul>
6	Integers and Order of Operations	<ul style="list-style-type: none"><li>• Raines Chapter 5</li><li>• Homework as assigned by facilitator</li></ul>
7	Equations	<ul style="list-style-type: none"><li>• Raines Chapter 6</li><li>• Homework as assigned by facilitator</li></ul>
8	The Metric System	<ul style="list-style-type: none"><li>• Raines Chapter 8</li><li>• Homework as assigned by facilitator</li><li>• <b>In class assignment</b></li></ul>
9	Course Review	<ul style="list-style-type: none"><li>• Prepare questions that need clarifying</li><li>• Homework as assigned by facilitator</li><li>• Tips on doing math exams</li></ul>
10	<b>3-hour Final Exam – location to be announced</b>	