

MATH138: College Algebra

School of Health and Social Sciences

5 Credits

Effective Date Fall 2021

List any Pre-requisite or Co-Requisite: N/A

Access to the Internet is required.

All written assignments must be in Microsoft-Word-compatible formats.

*See the library's APA Style Guide tutorial for a list of resources that can help you use
APA style.*

Faculty Information

Professional experience information for instructors is found in the online course.

Contact Information

Contact information for instructors is found in the online course.

Course Description

MATH 138 is an examination of definitions and concepts of College Algebra including a review of fundamental algebra concepts. Topics also include graphing, linear and quadratic equations, linear inequalities, and linear programming. Every concept includes practical everyday applications, which focus on reducing math anxiety. This course satisfies the general math requirement and is essential as preparation for mathematics, statistics, and accounting courses. Certain degree programs require higher level mathematics courses. Students should consult their advisors to determine if MATH 138 meets their program requirements. Students needing only to fulfill the university's general education or college mathematics requirement may take MATH 107 instead of MATH 138.

Course Resources

Required and recommended resources to complete coursework and assignments are found on the course [Reading List](#). Access to the Reading List is also available through the online course.

Note: resources listed under "Required - Must Purchase" should be purchased from a vendor of the student's own choosing; resources listed under "Available from the Library" are available at no cost to students.

Students in Canada may purchase course resources from the [Canada Bookstore](#), and students outside the U.S. and Canada should contact their advisor or textbook coordinator for additional information.

Course Outcomes

This course will prepare students to:

- Evaluate various algebraic formulas and equations

- Solve algebraic problems to demonstrate understanding of course concepts and professional competency
- Identify algebraic properties and rules

Grading Scale

The grades earned for the course will be calculated using City University of Seattle’s decimal grading system, found in the current University Catalog (<https://www.cityu.edu/catalog/>).

Grading rubrics with details on how each assignment will be graded are located under *Assignments* and/or in *My Grades* in the online course menu. Students should review the rubric for each assignment prior to completing their work in order to understand how it will be assessed.

Overview of Required Assignments	% of Final Grade
Course activities	25%
Homework assignments	25%
Quizzes	25%
Final exam	25%
TOTAL	100%

Course Assignments and Grading

The instructor will provide grading rubrics with more detail as to how this assignment will be graded.

Course Activities (25%)

Class participation through discussion is an integral part of this online course, although it is typically less formal than other work submitted throughout the course. Participation is defined as active engagement in a discussion or other online activity.

To provide a structure for balanced participation and allow you to maximize the benefit of the discussion boards, it is recommended that you follow these guidelines:

1. Post your responses to discussion questions in the first three days of the school week (Monday through Wednesday).
2. Post three or more thoughtful and topic-relevant comments to responses made by classmates during the last four days of the school week (Thursday through Sunday).
3. Respond to any questions that your instructor or peers have regarding your

original post by the end of the school week.

Components	% of Grade
Engagement	100%
TOTAL	100%

Homework assignments (25%)

Students will complete homework to learn course concepts. Completion of homework helps students learn mathematical terminology and the identification and application of mathematical tools. Students may use a calculator.

Components	% of Grade
Solve algebraic problems	100%
TOTAL	100%

Quizzes (25%)

Students will complete quizzes to reinforce course concepts. The quizzes test students on mathematical terminology and the identification and application of mathematical tools. All quizzes are open book, and students may use a calculator.

Components	% of Grade
Solve algebraic problems	100%
TOTAL	100%

Final exam (25%)

Students complete a comprehensive final exam to reinforce course concepts. The exam tests students on mathematical terminology and the identification and application of mathematical tools. Students may use a calculator.

Components	% of Grade
Solve algebraic problems	100%
TOTAL	100%

Course Policies

Late Assignments

Per School of Health and Social Sciences policy, undergraduate students are required to submit all assignments by the due dates stated in the syllabus. A late assignment is one that is submitted after the due date and time or after any extension has expired.

If circumstances prevent a student from meeting the due date, the student is obliged to contact the instructor and request an extension at least 48 hours prior to the date the assignment is due. Emergency situations will be considered on a case-by-case basis. Being busy, pressured with outside work, or having competing academic commitments are not valid reasons to grant extensions. A student who receives an extension in advance of the due date and abides by the agreement with the instructor is not subject to late penalties.

Without prior arrangement with the instructor, students who submit assignments late will receive a 15 percent deduction in grade each day or part of the day that the assignment is late. For example, if the assignment is submitted two days late, 30 percent of the grade will be deducted. No late submission is accepted beyond 48 hours past the final day of the course, without instructor approval. Coursework received after one week (seven days) will not be graded and will receive a zero grade.

Participation

Participation is an active engagement in class discussions and activities in the form of sharing new ideas, examples and resources, as well as constructive disagreement and incorporation of course materials and concepts in comments. This requires frequent monitoring of the discussion forum, timely responses, integration of course material and other sources, and ongoing conversations that extend, modify, and add to understanding, creating a vibrant learning community.

Participation through course activities and discussions to exchange knowledge, ideas, and thoughts is an integral, mandatory part of this course. It enhances the student's learning process and experience in this course. Lack of participation will result in a reduction in grade (see grading rubric).

Professional Writing

Assignments require error-free writing that uses standard English conventions and logical flow of organization to address topics clearly, completely, and concisely. CityU requires the use of APA style.

University Policies

Students are responsible for understanding and adhering to all of City University of Seattle's academic policies. The most current versions of these policies can be found in the [University Catalog](#) that is linked from the CityU Web site.

Antidiscrimination

City University of Seattle and its staff and faculty are committed to supporting our students. We value equity, diversity, and inclusion as a way of life as well as the educational opportunities it provides. CityU will not tolerate any form of discrimination based on race, color, ethnicity, sexual orientation, gender identification, socioeconomic status, or religious values. If you have experienced any discrimination based on any of the above, we encourage you to report this to the University. Please report this to your instructor. If you do not feel safe reporting this to your instructor, please report to the Provost or to the Vice President of Student Affairs.

Non-Discrimination & Prohibition of Sexual Misconduct

City University of Seattle adheres to all federal, state, and local civil rights laws prohibiting discrimination in employment and education. The University is committed to ensuring that the education environment is bounded by standards of mutual respect and safety and is free from discriminatory practices.

In the U.S., the University is required by Title IX of the Education Amendments of 1972 to ensure that all of its education programs and activities do not discriminate on the basis of sex/gender. Sex include sex, sex stereotypes, gender identity, gender expression, sexual orientation, and pregnancy or parenting status. Sexual harassment, sexual assault, dating and domestic violence, and stalking are forms of sex discrimination, which are prohibited under Title IX and by City University of Seattle policy. City University of Seattle also prohibits retaliation against any person opposing discrimination or participating in any discrimination investigation or complaint process internal or external to the institution. Questions regarding Title IX, including its application and/or concerns about noncompliance, should be directed to the Title IX Coordinator. For a complete copy of the policy or for more information, visit <https://my.cityu.edu/titleix> or contact the Title IX Coordinator.

In Canada, in compliance with the British Columbia Human Rights Code, the Alberta Human Rights Act, WorksafeBC, and the Workers' Compensation Board of Alberta, the University believes that its environment should at all times be supportive and respectful of the dignity and self-esteem of individuals. Discrimination, harassment and bullying conduct, whether through person to person behaviour or via electronic communications such as email or social media is not acceptable and will not be tolerated. As an educational institution, it is our responsibility to cultivate an environment of excellence, equity, mutual respect and to recognize the value and potential of every individual. The University will take all necessary steps to meet or exceed the requirements of the law to prevent discrimination, harassment and

bullying. The Respectful Workplace Policy for the prevention of discrimination, harassment and bullying policy and procedure can be found at <https://www.cityu.edu/discover-cityu/about-cityu/> under the Policies section or at <https://www.cityuniversity.ca/about/>.

Religious Accommodations

City University of Seattle has a policy for accommodation of student absences or significant hardship due to reasons of faith or conscience, or for organized religious activities. The University's policy, including more information about how to request an accommodation, is available in the University Catalog and on the my.cityu.edu student portal. Accommodations must be requested by the 20% mark of this course (e.g. day 14 of a ten-week course, day 7 of a 5-week course) using the Religious Accommodations Request Form found on the student dashboard in the my.cityu.edu student portal.

Academic Integrity

Academic integrity in students requires the pursuit of scholarly activity that is free from fraud, deception and unauthorized collaboration with other individuals. You are responsible for understanding CityU's policy on academic integrity and adhering to its standards in meeting all course requirements. A complete copy of this policy can be found in the [University Catalog](#) in the section titled *Scholastic Honesty* under *Student Rights & Responsibilities*.

Attendance

Students taking courses in any format at the University are expected to be diligent in their studies and to attend class regularly.

Regular class attendance is important in achieving learning outcomes in the course and may be a valid consideration in determining the final grade. For classes where a physical presence is required, a student has attended if s/he is present at any time during the class session. For online classes, a student has attended if s/he has posted or submitted an assignment. A complete copy of this policy can be found in the [University Catalog](#) in the section titled *Attendance Policy for Mixed Mode, Online and Correspondence Courses*.

Support Services

Disability Services Accommodations Statement

Students with a documented disability who wish to request academic accommodations are encouraged to contact Disability Support Services to discuss accommodation requests and eligibility requirements. Please contact Disability Support Services at disability@cityu.edu or 206.239.4752 or visit the [Disability Support Services](#) page in the my.cityu.edu portal. Confidentiality will be observed in all inquiries. Once approved, information about academic accommodations will be shared with course instructors.

Library Services

CityU librarians are available to help students find the resources and information they need to succeed in this course. Contact a CityU librarian through the [Ask a Librarian](#) service, or access [library resources and services online](#), 24 hours a day, seven days a week.

Smarthinking

As a CityU student, you have access to 10 free hours of online tutoring offered through Smarthinking, including writing support, from certified tutors 24 hours a day, seven days a week. Contact CityU's Student Support Center at help@cityu.edu to request your user name and password.

Course Schedule

Course Modules & Dates	MODULE(S), TOPICS AND ASSIGNMENTS	READINGS
1	Prerequisites; Fundamental concepts of algebra DUE: Student Introductory Assignment (SIA) Course Activities Module 1 Homework in MyLab Math Module 1 Quiz in MyLab Math	Sections P.1, P.2, P.3, P.4, P.5, and P.6
2	Equations and inequalities DUE: Course Activities Module 2 Homework in MyLab Math Module 2 Quiz in MyLab Math	Sections 1.1, 1.2, 1.3, and 1.4
3	Equations and inequalities – cont. DUE: Course Activities Module 3 Homework in MyLab Math	Sections 1.5, 1.6, and 1.7

	Module 3 Quiz in MyLab Math	
4	Functions and graphs DUE: Course Activities Module 4 Homework in MyLab Math Module 4 Quiz in MyLab Math	Sections 2.1, 2.2, 2.3, and 2.4
5	Functions and graphs – cont. DUE: Course Activities Module 5 Homework in MyLab Math Module 5 Quiz in MyLab Math	Sections 2.5, 2.6, 2.7, and 2.8
6	Polynomials and rational functions DUE: Course Activities Module 6 Homework in MyLab Math Module 6 Quiz in MyLab Math	Sections 3.1, 3.2, 3.3, and 3.4
7	Polynomials and rational functions – cont. DUE: Course Activities Module 7 Homework in MyLab Math Module 7 Quiz in MyLab Math	Sections 3.5, 3.6, and 3.7
8	Exponential and logarithmic functions DUE: Course Activities Module 8 Homework in MyLab Math Module 8 Quiz in MyLab Math	Sections 4.1, 4.2, 4.3, and 4.4
9	Systems of equations and inequalities DUE: Course Activities Module 9 Homework in MyLab Math Module 9 Quiz in MyLab Math	Sections 5.1, 5.2, 5.3, 5.4, 5.5, and 5.6
10	Review and final exam DUE: Course Activities Final exam in MyLab Math	Review assigned readings

Rubrics

Course activities

	Below Standard	Approaching Standard	At Standard	Exceeds Standard
Point scale:	1 point	2 points	3 points	4 points
Scaled score	0.0 – 1.9	2.0 – 2.6	2.7 - 3.6	3.7 - 4.0
Engagement (100%)	Participates but does not adequately complete required parts of the activity	Completes most required parts of the activity with superficial thought or preparation	Completes all required parts of the activity with substantive thought or preparation	Completes all required parts of the activity with substantive thought or preparation, and expands on the discussions or topics

Homework

	Below Standard	Approaching Standard	At Standard	Exceeds Standard
Percentage scale:	0.00 – 74.99%	75.00 – 81.99%	82.00 – 91.99%	92.00 - 100%
Scaled score	0.0 – 1.9	2.0 – 2.6	2.7 - 3.6	3.7 - 4.0
Organization and coherence (25%)	Does not adequately demonstrate an understanding of course concepts	Limited ability to demonstrate an understanding of course concepts	Adequately demonstrates an understanding of course concepts	Demonstrates an understanding of course concepts with 100% proficiency

Quizzes

	Below Standard	Approaching Standard	At Standard	Exceeds Standard
Percentage scale:	0.00 – 74.99%	75.00 – 81.99%	82.00 – 91.99%	92.00 - 100%
Scaled score	0.0 – 1.9	2.0 – 2.6	2.7 - 3.6	3.7 - 4.0
Organization and coherence (25%)	Does not adequately demonstrate an understanding of course concepts	Limited ability to demonstrate an understanding of course concepts	Adequately demonstrates an understanding of course concepts	Demonstrates an understanding of course concepts with 100% proficiency

Final exam

	Below Standard	Approaching Standard	At Standard	Exceeds Standard
Percentage scale:	0.00 – 74.99%	75.00 – 81.99%	82.00 – 91.99%	92.00 - 100%
Scaled score	0.0 – 1.9	2.0 – 2.6	2.7 - 3.6	3.7 - 4.0
Organization and coherence (25%)	Does not adequately demonstrate an understanding of course concepts	Limited ability to demonstrate an understanding of course concepts	Adequately demonstrates an understanding of course concepts	Demonstrates an understanding of course concepts with 100% proficiency