FRANKLIN
UNIVERSITY SWITZERLAND

MAT102, Intermediate Algebra
Department of International Management and Math, Fall 2018

I. COURSE INFORMATION

Instructor: Nadia Bernasconi
Instructor's Email: nbernasconi@fus.edu
Office Hours: Tuesday and Friday 10:00-11:30 MV8
Class location: Kaletsch Classroom 4
Class meeting times: Tuesday and Friday 11:30-12:45

II. COURSE DESCRIPTION

This course reviews basic concepts and attempts to enhance competency in problem solving. Topics include linear equations and inequalities, polynomials, factoring, exponents and radicals, fractional expressions and equations, and quadratic equations.

III. SPECIFIC LEARNING OUTCOMES

Upon completion of this class, students should

- have a clear understanding of the most basic concepts and methods in Algebra,
- be able to simplify simple algebraic expressions, solve simple equations, and graph simple (i.e. linear) equations,
- be able to formulate word problems in mathematical terms and solve the corresponding equations,
- be able to participate in MAT103 or MAT107 successfully.

IV. REQUIRED TEXTS AND MATERIALS

College Algebra with Trigonometry, by R.A. Barnett, M.R. Ziegler, K.E. Byleen, Sobecki, McGraw-Hill International ed.

V. ASSESSMENT OVERVIEW

At the end of the semester, you will receive a score from 0 to 100%, based on the following:

participation:	15%
quizzes:	35%
midterm:	20%
final:	30%

Nonattendance may lower your score as will be described below

VI. ASSESSMENT DETAILS

Tests:
There will be five 15-minute quizzes. Only the best four count.
There will be one midterm.
There will be a final exam, which will be cumulative.

No make-up quizzes/exams are given, unless there is documented evidence of a medical (or other serious) problem.

Class participation:
The participation score will reflect your participation during class.

Attendance:
Since this is a progressive class, each chapter building upon the previous one, regular attendance is extremely important other than required. Experience shows that students who do not attend on a regular basis, do poorly. If you are late or leave early you are regarded as non-attendant. You may loose points counting towards your total grade according to the followings scheme:

- 0 - 4 classes missed: no change.
- for each further class missed: subtract 5% from your score

VII. GRADING POLICIES AND EXPECTATIONS

Final grades will be determined as follows

	A: 93 - 100 %	A-: 90 - 92.9 %
B+: 87 - 89.9 %	B: 83 - 86.9 %	B-: 80 - 82.9 %
C+: 77 - 79.9 %	C: 73 - 76.9 %	C-: 70 - 72.9 %
D+: 67 -69.9 %	D: 63 - 66.9 %	D-: 60 - 62.9 %
F: below 60 %		

VIII. HOW TO DO WELL IN THIS COURSE (POLICIES / REQUIREMENTS)

During classes: attend class, participate, ask questions, or answer them, if you can. Contact me as soon as problems occur. If you miss a class, you are responsible to find out which material was covered and which announcements were made during class.

During exams, the use of cell phones I-phones, … is strictly forbidden. Bring your own calculator. Sharing calculators during exams is not allowed.

IX. ACADEMIC INTEGRITY: STATEMENT ON CHEATING AND PLAGIARISM

A student whose actions are deemed by the University to be out of sympathy with the ideals, objectives or the spirit of good conduct as fostered by the University and Swiss community, may be placed on Disciplinary Probation or become subject to dismissal from the University. Cheating is a dishonest action out of sympathy with the ideals, objectives and spirit of the University. Furthermore, cheating reflects

negatively on one's personal integrity and is unjust to those students who have studied.

See the Academic Catalog for full statement (page 215):
https://www.fus.edu/images/pdf/FUS_ACADEMIC_CATALOG_2016_2018_web.pdf

X. TENTATIVE COURSE SCHEDULE

TUESDAY	FRIDAY	READINGS
28 Aug: Review of Arithmetic	**31 Aug**: Algebraic expressions	R.1
4 Sep: Operations on real numbers, properties of real numbers	**7 Sep**: Linear equations in one variable **Quiz #1**	R.1, 1.1
11 Sep: Linear equations and applications: problem solving	**14 Sep**: Linear inequalities	1.1, 1.2
18 Sep: Cartesian Coordinate Systems: graphing equations **Quiz #2**	**21 Sep**: Distance in the plane	2.1, 2.2
25 Sep: Graphing linear equations	**28 Sep**: The slope of a line	2.3
2 Oct: Equations of lines **Quiz #3**	**5 Oct**: Equations of lines	2.3
9 Oct: REVIEW	**12 Oct: Midterm**	
16 Oct: Solving systems of linear equations	**19 Oct:** Solving systems of linear equations	10.1
23 Oct: Academic Travel	**26 Oct: Academic Travel**	
30 Oct: **Academic Travel**	**2 Nov**: **Academic Travel**	
6 Nov: Exponents	**9 Nov**: Radicals	R.2
13 Nov: Polynomials: basic operations	**16 Nov**: Polynomials factoring **Quiz #4**	R.3
20 Nov: Quadratic Equations and Applications	**23 Nov: Thanksgiving Break**	1.5
27 Nov: Quadratic Equations and Applications	**30 Nov**: Rational expressions: basic operations **Quiz #5**	1.5, R.4
4 Dec: Rational expressions: basic operations	**7 Dec: Last day of classes** **REVIEW**	R.4

XI. FINAL EXAM

Tuesday, Dec. the 11th, 11:00-13:00