LANGARA COLLEGE
COURSE OUTLINE
MATH 1150
Intermediate Algebra

Instructor: Rebecca Friesen  Office: B154/
e-mail: rfriesen@langara.bc.ca  Phone: 604-323-5794
Office Hours: Monday to Thursday: 12:30-1:30 and 4:30-5:00
Or by appointment

Course Materials

Optional: Student’s Solution Manual, Math Zone
Calculators: Only basic scientific calculators are permitted

Course Objective

This is a course in basic and intermediate algebra. It is designed to strengthen the student’s background in the concepts, structure, vocabulary, notation, and problem-solving techniques of algebra in preparation for Math 1152, Stat 1123, 1124, or a career area. Students will gain an appreciation for the importance in our society of “numeration”. Mastery through understanding and practice is a key objective, as is the development of robust problem-solving skills.

Prerequisite

C in Principles of Math 11 (or equivalent course); “S” in Math 1101, or permission of the Department, based on diagnostic test(Please see the instructor immediately if you suspect you are in the wrong level of math.)
Transfer credit: none

Course Content

<table>
<thead>
<tr>
<th>Topics</th>
<th>Text References</th>
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</thead>
<tbody>
<tr>
<td>Properties of Exponents</td>
<td>Chapter 1</td>
</tr>
<tr>
<td>Linear Equations and Inequalities</td>
<td>Chapter 2</td>
</tr>
<tr>
<td>Graphs and Functions</td>
<td>Chapter 3 (omit 3.4)</td>
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<tr>
<td>Systems of Linear Equations</td>
<td>Chapter 4 (4.1 &amp; 4.3 only)</td>
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<tr>
<td>Polynomials and Factoring</td>
<td>Chapter 5</td>
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<tr>
<td>Rational Expressions</td>
<td>Chapter 6 (omit 6.8)</td>
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<tr>
<td>Rational Exponents and Radicals</td>
<td>Chapter 7 (omit 7.5)</td>
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<tr>
<td>Quadratic Equations and Inequalities</td>
<td>Chapter 8 (8.1 &amp; 8.2 only)</td>
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Study and attendance

I won’t be taking attendance. In the event that you must miss a class, please call or email me before the missed class.

You should expect to spend at least 1-2 hours per day on this course outside of the classroom. This work should include: studying the notes from the previous class in preparation for the upcoming class, reading relevant material in the textbook, doing a variety of problems from the homework assignment.

Assignments and Quizzes

**Homework** will be assigned weekly (posted on myLangara) but will not be collected. Solutions will be posted.

**Quizzes** will be given weekly in class (except during term test weeks). They will cover homework and class material from the previous week. **No make-up quizzes will be given.** The two lowest quiz scores will be dropped (the lowest scores include any missed quiz).

Solutions to weekly homework and quizzes will be posted on myLangara.

Midterms

There will be two scheduled midterms. Midterms are to be written when scheduled, unless a medical certificate is provided, or there is some other acceptable reason for your absence. You **must** contact me before the exam date, unless the absence is due to an emergency. **No make-up midterms will be given.** The difficulty of the questions will range from a level similar to what is on the quizzes and homework, although more challenging problems may also appear. Solutions will be posted on myLangara.

Final

A **compulsory** two-hour Final Exam will take place in the final exam period. The date and time will be announced near the end of the term. You **must** make yourself available during the final examinations period (April 12-20). **I will not** re-schedule final exams. Any conflicts should be directed to General Office, Room B234. Please read the Final Examinations section in the Langara College Calendar for proper procedures.
Grade Distribution

Quizzes (best 8 of 10)  20%
Term Tests (2)   40%
Final Exam   40%
TOTAL                   100%

GRADING:
The following guidelines will apply:

<table>
<thead>
<tr>
<th>Grade in Course</th>
<th>Minimum overall %</th>
<th>Minimum Final Exam %</th>
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<tbody>
<tr>
<td>A+</td>
<td>96</td>
<td>90</td>
</tr>
<tr>
<td>A</td>
<td>85</td>
<td>80</td>
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<tr>
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<td>B+</td>
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<td>71</td>
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<td>B</td>
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<tr>
<td>D</td>
<td>48</td>
<td>45</td>
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NOTES TO STUDENTS:
1. The weightings associated with the final exam, tests, etc are on your course outline.
2. Consistency in your entire term’s work is required: that is, a student should obtain a grade on the final exam which is consistent with the grade for the term work in order to be sure of receiving the expected letter grade.
3. In multi-section courses, term grades may be adjusted across sections at the end of the term.
4. The final exam must be successfully completed to pass the course.
Learning Resources available outside the classroom

- **The Math/Stat Activity Centre (MAC): C209**
  A drop-in tutorial centre staffed by department members and/or senior students. In addition to the tutors, the Centre contains a variety of resources, such as micro-computers, video-tapes and books. A schedule of hours of operation will be posted early in the term. This is a good place to work on homework questions as help is available should you need it.

- **My office hours:**
  I am available for help, without appointment, during my posted office hours. If these times do not fit your schedule, please make an appointment for some other time.

- **The Library:**
  The reserve desk has a solutions manual for the text. In addition, there are quiet study areas throughout the library, and the second floor has video tapes on various topics that we will study.

- **On the Web:**
  Purchase of your textbook gives you access to a variety of web-based learning and practice materials, such as:

  - The author’s web site: www.mhhe.com/bello, which includes links to more practice problems (see “Web It” boxes in the text).
  - Click the Self-Study tab at the top of the webpage for our textbook to access practice quizzes and various study aides (MathZone registration is required for accessing content from Chapters 3-8).
  - MathZone, accessible via www.mathzone.com, which provides online practice and assessment, access to video lectures, NetTutor online tutoring, and “e-Professor-guided solutions” to exercises – all tied directly to your textbook.

Class Cancellations

In the event that a class must be cancelled information will be posted in the following designated areas only:

- Registrar’s Office (outside reception-east wall)–“B” building
- Opposite the Information Booth (main foyer) – “A” building
- On myLangara web page

NOTICES WILL NOT BE POSTED OUTSIDE CLASSROOM DOORS.