Instructor: Mr. T. Jesse (Semester 1 2013-2014)

Prerequisite Course: A grade of 60% or better in Math 10C

Calculator: Students are required to have a Ti-84, Ti-84 Plus or Ti-nspire calculator for this course.

Objectives

Welcome to Math 20-1! Mathematics is a common human activity, which is done throughout life. Everyday, we can see how important math is in a rapidly advancing society in areas such as technology and science. This course is designed to give you greater proficiency in mathematics and will increase the opportunities that are available to you, as an individual. As a student in Math 20-1 you will be preparing yourself logically for high-level mathematics at university. This includes probing concepts, skills and ideas involved in Math 31 (calculus) in high school.

Course Outline

The grade 11 mathematics program will follow the strands set out in the Mathematics 10-12 Common Curriculum Framework, Alberta Education 2010.

Math 20-1 will consist of the following 3 major strands with smaller units of study (not necessarily in this order):

<table>
<thead>
<tr>
<th>Strand</th>
<th>Unit</th>
<th>Time*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Algebra and Number</td>
<td>• Radical Expressions &amp; Equations</td>
<td>20 classes</td>
</tr>
<tr>
<td></td>
<td>• Rational Expressions &amp; Equations</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Sequences &amp; Series</td>
<td></td>
</tr>
<tr>
<td>Relations and Functions</td>
<td>• Quadratic Functions &amp; Equations</td>
<td>50 classes</td>
</tr>
<tr>
<td></td>
<td>• Absolute Value &amp; Reciprocal Functions</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Systems of Linear/Quadratic equations and inequalities</td>
<td></td>
</tr>
<tr>
<td>Trigonometry</td>
<td>• Non-right angle trigonometry and angles in standard position</td>
<td>16 classes</td>
</tr>
</tbody>
</table>

*times are approximate
**Sequences of Units of Study**

We will be looking at the following smaller units of study in this order:

1. **Absolute Value and Radicals (Pearson Chapter 2)**
2. **Rational Expressions and Equations (Pearson Chapter 7)**
3. **Solving Quadratic Equations (Pearson Chapter 3)**
4. **Analyzing Quadratic Functions (Pearson Chapter 4)**
5. **Graphing Inequalities and Systems of Equations (Pearson Chapter 5)**
6. **Graphing Absolute Value and Reciprocal Functions (Pearson Chapter 8)**
7. **Trigonometry (Pearson Chapter 6)**
8. **Sequences and Series (Pearson Chapter 1)**

**Attendance**

- Students are expected to attend classes *regularly*.
- In inexcusable absence will result in a “0” on any assignment, quiz or exam missed.
- In the event of an excusable absence, a “**missing**” will be entered and you will have the opportunity to complete the work in a *timely manner* when you return.

**Student Materials**

- Pencil, Eraser, Ruler, Loose Leaf Paper & Binder, Pearson Workbook, Graphing Calculator (TI-84 recommended)

**Evaluation**

Each unit will consist of notes, homework, assignments, quizzes, and a unit exam.

The following will break down the marks for the year:

<table>
<thead>
<tr>
<th></th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Assignments</td>
<td>5</td>
</tr>
<tr>
<td>Quizzes</td>
<td>20</td>
</tr>
<tr>
<td>Unit Exam</td>
<td>35</td>
</tr>
<tr>
<td>Final Exam</td>
<td>40</td>
</tr>
<tr>
<td></td>
<td>100</td>
</tr>
</tbody>
</table>

**Mark in Math 20-1:**

- Math 30-1 – Students grade is greater than 65%
- Math 30-2 – Students grade is less than 65%
Course Mark Updates

Your marks will update regularly and available on PowerSchool:

http://powerschool.chinookedge.ab.ca/public

Homework & Assignments

All assignments will be posted at:
http://www.sundrehigh.ca/Jesse.php

- In addition regular emails will be sent out to students and parents involving important information or dates of assignments, quizzes or exams.
Extra Help:

High school math courses often require extra help beyond the classroom. Students can:

1. Schedule a time outside of class with Mr. Jesse for one-on-one help.
2. Contact me via text message at (403) 586-1135
3. Contact me via email at tjesse@chinookscribed.ab.ca
4. Ask a friend in the class for help