



DEPARTMENT OF HUMAN SERVICES

Course Outline: TA 1233 Fall, 2014

INSTRUCTOR: Tanya Ray **PHONE:** 780-539-2786
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OFFICE HOURS: Stop by my office, email or call for an appointment!

TIME: Tuesdays 1:00 pm -2:20 and Thursdays 1:00 -1:50

LOCATION: A 204

PREREQUISITE(S)/COREQUISITE: None

REQUIRED TEXT/RESOURCE MATERIALS:

Package of TA 1233 modules, 2008
Basic Calculator (**Calculator may be used for module 2 only**)

CALENDAR DESCRIPTION:

TA 1233 1(1-0-0) Time: 15 Hours
This course covers the development, review, and reinforcement of math skills and concepts up to beginning algebra. As the student progresses through the course, he/she will become more comfortable with math concepts that may be encountered while working with children in an elementary school setting.

CREDIT/CONTACT HOURS: 1 credits (15 hours)

DELIVERY MODE(S): Classroom instruction will be a combination of lecture and small and large group work. Audio-visual material and additional resources will supplement reading package.

OBJECTIVES:

1. Basic Arithmetic

- Give the place value of digits in standard notation.
- Convert between standard notation and word names.
- Add two or more whole numbers.
- Subtract whole numbers.
- Add and subtract using decimal notation.
- Multiply and divide whole numbers.
- Multiply and divide using decimal notation.
- From a group of fractions, identify the proper fractions, improper fractions, and mixed numbers.
- Change whole number or fractions to equivalent fractions with the indicated denominator.
- Add and subtract fractions with common denominator or different denominators.
- Multiply and divide fractions.
- Write a fraction as a decimal or a decimal as a fraction.
- Solve applied problems involving addition, subtraction, multiplication, or division for whole numbers, decimal notation, or fractions.

2. Percent

- Write a fraction with a denominator of 100 as a percent.
- Rewrite a given statement using the percent notation.
- Write a percent as a decimal and vice-versa.
- Change a percent to a fraction and vice-versa.
- Translate a percent problem into an equation.
- Identify the parts of percent proportion such as percent, base and amount.
- Use the percent proportion to solve percent problems.
- Solve general applied percent problems.
- Solve applied problems when percent is added such as sales tax, commission, etc.

3. Measurement

- Understand prefixes in metric units.
- Convert from one metric unit of length to another.
- Convert from one metric unit of mass to another.
- Convert between metric units of volume.
- Convert between units of time.

- Get familiar with Fahrenheit and Celsius degrees of temperature.
- Solve real life word problems involving metric units, or time.

TRANSFERABILITY:

Grading Criteria

| GRANDE PRAIRIE REGIONAL COLLEGE | | | |
|--|---------------------------|------------------------------|--|
| GRADING CONVERSION CHART | | | |
| Alpha Grade | 4-point Equivalent | Percentage Guidelines | Designation |
| A⁺ | 4.0 | 90 – 100 | EXCELLENT |
| A | 4.0 | 85 – 89 | |
| A⁻ | 3.7 | 80 – 84 | FIRST CLASS STANDING |
| B⁺ | 3.3 | 77 – 79 | |
| B | 3.0 | 73 – 76 | GOOD |
| B⁻ | 2.7 | 70 – 72 | |
| C⁺ | 2.3 | 67 – 69 | SATISFACTORY |
| C | 2.0 | 63 – 66 | |
| C⁻ | 1.7 | 60 – 62 | |
| D⁺ | 1.3 | 55 – 59 | FAIL |
| D | 1.0 | 50 – 54 | |
| F | 0.0 | 0 – 49 | FAIL |
| WF | 0.0 | 0 | FAIL, withdrawal after the deadline |

EVALUATIONS:

Your final mark is determined by:
Module 1 Basic Arithmetic Test 40%
Module 2 Percent Test 30%
Module 3 Measurement Test 30%

STUDENT RESPONSIBILITIES:

It is the right of the student and of the instructor to a favorable learning/teaching environment. It is the responsibility of the student and the instructor to engage in appropriate adult behaviors that positively support learning. This includes, but is not limited to treating others with dignity and respect. Cell phones are to be used outside of class time.

Attendance is very important for understanding concepts. **Students will not pass this course if they miss more than 20% of class time.** Students are responsible for missed class times, including the gathering of resources handed out during class.

It is your responsibility to become familiar with the basic student rights and responsibilities found in the College calendar.

The College expects students' conduct to be in accordance with basic rights and responsibilities. Please refer to the GPRC College calendar regarding rights and responsibilities.

STATEMENT ON PLAGIARISM AND CHEATING:

Refer to the Student Conduct section of the College Admission Guide at <http://www.gprc.ab.ca/programs/calendar/> or the College Policy on Student Misconduct: Plagiarism and Cheating at www.gprc.ab.ca/about/administration/policies/**

**Note: all Academic and Administrative policies are available on the same page.

| Date | Material to be Covered | Assigned work |
|---------------------------|--|---|
| November 4 th | Introduction Course outline Basic arithmetic | Section 1 –place value Section 2- addition and subtraction of whole numbers and decimals |
| November 6 th | -Place value -Addition, subtraction, multiplication, division of whole numbers decimals and fractions -Interchanging fractions and decimals -Word problems | Section 3-multiplication Section 4- division Section 5-fractions Section 6-addition and subtraction of fractions |
| November 13 th | -Place value -Addition, subtraction, multiplication, division of whole numbers decimals and fractions -Interchanging fractions and decimals -Word problems | Section 7-Multiplication and division of fractions Section 8- Interchanging decimals and fractions Section 9- word problems Review |
| November 18 th | Test #1 | |
| November 20 th | Percent -Meaning of percent -Changing percent to decimals/fractions -changing decimals/fractions to percent -The percent proportion -application of percent | Section 1- Meaning of Percent Section 2 - Changing percent to decimals Section 3 – Changing decimals to percent Section 4- Changing percent into fractions |
| November 25 th | Percent -Meaning of percent -Changing percent to decimals/fractions -changing decimals/fractions to percent -The percent proportion -application of percent | Section 5- changing fractions into percent Section 6- review of proportions Section 7 – the percent proportions |

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|---------------------------|--|--|
| November 27 th | Percent -Meaning of percent -Changing percent to decimals/fractions -changing decimals/fractions to percent -The percent proportion -application of percent | Section 8 – Solving percent proportions Section 9 – applications of percent Review |
| December 2 nd | Percent test | |
| December 4 th | Measurement -metric units of linear measurement, mass, liquid volume, time and temperature -changing of metric units | Section 1- linear measurement Section 2 – changing units of linear measurement Section 3- metric units of mass Section 4- changing units of metric mass |
| December 9 th | Measurement -metric units of linear measurement, mass, liquid volume, time and temperature -changing of metric units | Section 5- Metric units of liquid volumes Section 6- changing units of liquid volume Section 7 – time Section 8 temperature |
| December 11 th | Measurement test | |

