**Math 212 Fundamentals of**

**Elementary Mathematics II**

**Winter 2020**

**Instructor:** Hollis Duncan

**Office:** WOH-109

**Phone:**  email

**Office hours:** 11-11:50 M, F

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**Required materials:**

* *Mathematics for Elementary Teachers,* by Gary L. Musser, William F. Burger, and Blake E. Peterson, 10th edition
* *Student Activity Manual*
* **Three ring binder** with dividers

**Optional materials:**

* *Student Hints and Solutions Manual* by Trimpe, Maurer, and Maurer

**Upon completion of the course, the student will be able to**

1. Solve problems and explain mathematical concepts using manipulatives.
2. Explain and apply multiple methods for arithmetic computations with Real Numbers, in particular, decimals, integers and rational numbers.
3. Communicate mathematical concepts and algorithms in a variety of ways: written, verbal, or by demonstration.
4. Demonstrate a basic understanding of statistics and probability**.**

**Course Description:**

One of three courses in the mathematics cluster for prospective elementary and middle school teachers. Develops the understanding of basic mathematical concepts necessary for teaching mathematics in grades K–8. Topics include decimals, percent, ratio and proportion, integers, real numbers, basic statistics and probability. Prerequisite: MTH 211 Fundamentals of Elementary Mathematics I.

**Grading:** Your grade will be based approximately on the following:

 Homework/Quizzes/Activities 30%

 Two Tests @ 20% 40%

 Final 30%

Scale: A: 90-100%

 B: 80-89%

 C: 70-79%

 D: 60-69%

 F: Below 60%

**No “Y” or “WP” will be given in this class.**

**Homework/Quizzes:**

Homework will be assigned at the end of each class meeting. All homework is due the following class meeting unless otherwise stated. Homework will be periodically graded.

 Quizzes will be announced, make sure that you stay up to date with all homework assignments and ask questions when you have them.

**Tests and Final:**

 In order to pass this course you must have an average test grade of at least 60%. All exams will cover material discussed in class and in homework. I will let you know about a week in advance the actual date of the exam. If you miss an exam you will receive a zero for that exam, there are no make-up exams.

**Attendance:**

 Attendance is expected. If you are not in class you cannot take quizzes or turn in assignments. No late assignments will be accepted and no quizzes will be made up. If you know you will not be in class on a certain day let me know in **advance, not after** **you are absent.** Make every effort to attend each class.

**Special Circumstances:**

 Disabilities Services and Emergency Planning - Meet with Instructor Week One. If you have emergency medical information for your instructor, need special arrangements to evacuate campus, or have a documented disability, please meet with your instructor, by appointment, no later than the first week of the term, to discuss your needs. If you have a documented disability that will impact you at college and you seek accommodations, contact the Office of Disability Services (ODS) for intake and to document your disability with LBCC. Then, each term, at least two to three weeks prior to the start of classes, submit your “Request for Accommodations” form to ODS and pickup instructor letters. ODS may be reached from any LBCC campus/center by email to ODS@linnbenton.edu or by calling 917-4789. Letter pickup is available at each LBCC campus/center.

**Cell Phone Policy**:

 **Don’t use a cell phone in class, at all.**

**Your cell phone should be away and out of sight.**

**To be successful:**

* Be in class on time and **prepared**
* Know my **office hours** and come by to ask questions or clarify ideas, I can help!
* Work in **groups** outside of class (a good place to meet is the **LC**)
* When you or your group are struggling with a problem ask Mike at the **“Math Help Desk”** in the LC
* Get a **free tutor** from the tutorial services area in the **LC**
* **Solutions** to problems are in the solutions manual which you can check out in the **Library.**

**Tentative schedule of topics:**

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| **Week** | **Sections** |
| 1 | 7.1-7.2 |
| 2 | 7.2-7.4 |
| 3 | 7.4, 8.1, Review |
| 4 | **Test I,** 8.2, 9.1 |
| 5 | 9.2, 9.3 |
| 6 | 10.1-10.3 |
| 7 | Review, **Test II** |
| 8 | 11.2-11.4 |
| 9 | 11.4, Presentations |
| 10 | Presentations, Review |
| 11 | [**Final**](https://www.linnbenton.edu/finals-schedule)  |