**Fundamentals of Elementary Mathematics III**

**MTH 213 Spring 2019 CRN 43195**

Class Times: Tuesday/Thursday 5:30-7:20; (4 credits) Class Location: BC-105

Instructor: Sharyn Abbes Office: BC-101

Office Hours: Tues 7:30-8:20 pm or by appt Email: [abbess@linnbenton.edu](mailto:abbess@linnbenton.edu)

**Prerequisites:** MTH 95(algebra 2) & MTH 212 or equivalent

**Required Materials:**

Mathematics for Elementary Teachers, A Contemporary Approach by Musser, Burger, & Peterson, 10th Edition

Mathematics for Elementary Teachers, Student Activities Manual by Riverstone, 10th Edition

Compass, Protractor, **Scientific Calculator**

**Optional Materials:**

Student Hints & Solutions Manual

**Outcomes:**

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

1. Categorize 2-D and 3-D polygons based upon their characteristics and compute basic measurements.

2. Perform basic constructions and measurements.

3. Recognize geometric relationships and use their properties to solve problems.

4. Communicate mathematical concepts and algorithms in a variety of ways: written, verbal, or by demonstration.

**Grading and Assessment:**

Your grade will be based on the following:

Grading Scale:  
Homework & Attendance 20% 90%-100% A

Presentation 20% 80%- 89% B

4 Activity Reports 20% 70%- 79% C

Midterm 20% 60%- 69% D

Final Exam 20% 0- 59% F

**Homework & Attendance:** The homework assigned during the week will be due the following Tuesday by the **beginning** of class. Homework assignments will be graded on **completeness, accuracy and clarity**. Use this [link](http://www.purplemath.com/guidline.htm) if you are

unsure about what to do. I will be taking attendance **every** day. You may have two absences without

grade penalty. You will need to be in class in order to earn points for the activities/presentations that

will be assigned. **ALL work is still due by given deadlines regardless of absences**, unless you have

pre-arranged this with me. I have a folder in the Learning Center where they will time stamp any

work received. Any late work received before the final test will have a maximum of half credit

available.

**Presentation:**

You will be assigned a topic to present related to the material covered this term. You will receive a topic around the time of the midterm. I will give you more information about the presentations and about how they are graded when they are assigned. Final copies of ALL presentations are due by **Thursday, May 30** regardless of when you will be presenting.

**Activities:**

We will be doing lots of activities. You will need to bring your Student Activity Manual to class every day. You will need to write up an activity report for different activities as follows: **Ch 12 (1), Ch 13 (1), Ch 14 (1), Ch 15/16 (1)**. You will write up a report about the activities you did using the document posted on my website. Please submit your report typed in google docs or word, either electronically or in person. **Work is still due by given deadlines regardless of absences**, unless you have pre-arranged this with me. I have a folder in the Learning Center where they will time stamp any work received. Again any late report turned in by the final will only have maximum of half credit available.

**Tests:**

There is a mid-term and a final in this class. The final exam is on **Tuesday, June 11 at 5:30pm**. The final will be comprehensive, with a greater emphasis on the material covered since the second test. There will be no makeups and no curves. However, you may use the percentage grade on the final exam to replace one of the test grades up to a maximum replacement score of 75%. You should make every effort to contact me **before** the scheduled test time if there is any possibility that you may miss a test for an unavoidable reason. There are no make-ups for the final exam.

**Help:** If you have questions, PLEASE come see me and ask! I have scheduled office hours but you’re welcome to come in at other times too. Additionally, the Learning Center provides a Math Help Desk—a place you can drop in and receive assistance with your math questions. You also can sign up for 3 hours of peer tutoring per week, for FREE!! Study groups are encouraged! Many students find that working with classmates is the best way to learn and understand the material. You will find links to class notes and other resources on my instructor website.

**Expectations**: I expect that my students will be involved in class. This includes being present, asking questions and participating in discussions. You should come to class prepared (this means you should bring your book, activities manual, etc. in addition to having your work with you). I expect you will be respectful of everyone in the class, in word as well as behavior. Along these lines, I ask that you **turn off and/or put away your cell phone, mp3 player, laptop, etc. during class so as to avoid causing a distraction.**

# **College Policies**

## **LBCC Email and Course Communications**

You are responsible for all communications sent via Moodle and to your LBCC email account. You are required to use your LBCC provided email account for all email communications at the College. You may access your LBCC student email account through Student Email and your Moodle account through Moodle.

**Academic Honesty**: I assume that you are ethical and honest. However, if there is an incident of academic dishonesty (cheating), you will receive a score of zero for that test/assignment and the incident will be reported to the college administration for possible further disciplinary action. If there is a second offense, you will receive a grade of F for the course and the incident will be reported to the college administration with a recommendation for disciplinary action.

**LBCC Comprehensive Statement of Nondiscrimination**

LBCC prohibits unlawful discrimination based on race, color, religion, ethnicity, use of native language, national origin, sex, sexual orientation, gender, gender identity, marital status, disability, veteran status, age, or any other status protected under applicable federal, state, or local laws. For further information see Board Policy P1015 in our [Board Policies and Administrative Rules](http://linnbenton.edu/42145BA0-3DCC-11E3-AA36782BCB47BBE7). Title II, IX, & Section 504: Scott Rolen, CC-108, 541-917-4425; Lynne Cox, T-107B, 541-917-4806, LBCC, Albany, Oregon. To report: [linnbenton-advocate.symplicity.com/public report](http://linnbenton-advocate.symplicity.com/public_report).

**DISABILITY AND ACCESS STATEMENT:**

Students who may need accommodations due to documented disabilities, who have medical information which the instructor should know, or who need special arrangements in an emergency, should speak with the instructor during the first week of class. If you believe you may need accommodations but are not yet registered with the Center for Accessibility Resources (CFAR), please visit the [CFAR Website](http://www.linnbenton.edu/cfar) for steps on how to apply for services or call 541-917-4789.

## **Title IX Reporting Policy**

If you or another student are the victim of any form of sexual misconduct (including dating/domestic violence, stalking, sexual harassment), or any form of gender discrimination, LBCC can assist you. You can [report](https://linnbenton-advocate.symplicity.com/public_report/index.php/pid073717?) a violation of our sexual misconduct policy directly to our Title IX Coordinator. You may also report the issue to a faculty member, who is required to notify the Coordinator, or you may make an appointment to speak confidentially to our Advising and Career Center by calling 541-917-4780.

## **Statement of Inclusion**

To promote academic excellence and learning environments that encourage multiple perspectives and the free exchange of ideas, all courses at LBCC will provide students the opportunity to interact with values, opinions, and/or beliefs different than their own in safe, positive and nurturing learning environments. LBCC is committed to producing culturally literate individuals capable of interacting, collaborating and problem-solving in an ever-changing community and diverse workforce.

The LBCC community is enriched by diversity. Everyone has the right to think, learn, and work together in an environment of respect, tolerance, and goodwill. I actively support this right regardless of race, creed, color, personal opinion, gender, sexual orientation, or any of the countless other ways in which we are diverse.  (related to Board Policy #1015)

## **Public Safety/Campus Security/**[**Emergency Resources**](http://www.linnbenton.edu/public-safety-emergency-planning)**:**

In an emergency, call 911. Also, call LBCC Campus Security/Public Safety at 541-926-6855 and 541-917-4440.

From any LBCC phone, you may alternatively dial extension 411 or 4440. LBCC has a [public safety app](http://lbccpublicsafety.mobapp.at/landing/Desktop) available for free. We encourage people to download it to their cell phones. Public Safety also is the home for LBCC's Lost & Found. They provide escorts for safety when needed. Visit them to learn more.

***The instructor reserves the right to make changes to the syllabus/calendar at any time. Changes will be either announced in class, noted on website and/or syllabus, or sent through LBCC class email.***

**Tentative Calendar for Spring 2019**

|  |  |  |
| --- | --- | --- |
|  | Tuesday | Thursday |
| Week 1 | 4/2  intro/12.1 | 4/4  12.2/12.3 |
| Week 2 | 4/9  12.4  (hw#1: 12.1-12.3 due) | 4/11  12.4/12.5 |
| Week 3 | 4/16  12.6  (hw #2: 12.4-12.5 due) | 4/18  13.1 |
| Week 4 | 4/23  13.2  activity write up #1 (ch 12) due  (hw #3: 12.6 & 13.1 due) | 4/25  13.3 & 13.4 |
| Week 5 | 4/30  13.4 catch up and review  (hw #4: 13.2 -13.4 due) | 5/2  **Midterm Ch 12 & 13**  Presentation topics given |
| Week 6 | 5/7  14.1  (activity write up ch 13 due) | 5/9  14.2 |
| Week 7 | 5/14  14.3(constructions)  (hw #5: 14.1- 14.2 due) | 5/16  15.1  Presentation drafts due |
| Week 8 | 5/21  15.1  (activity write ups ch14 due) | 5/23  16.1 |
| Week 9 | 5/28  16.2  (hw #6: 15.1 due) | 5/30  **ALL Presentations due** |
| Week 10 | 6/4  Presentations (finished)  (hw #7: 16.1 & 16.2 due)  (activity write up #4 due) | 6/6  FINAL REVIEW |
| Week 11 | 6/11  **FINAL EXAM** |  |

**HOMEWORK (#’s in parentheses will be explained in class)**

12.1 A: # 2, 10, 14, 15

12.1 B: # 13, 20, 21

12.2 A: # (2), 4, 5, 8,

12.2 B: # 5, (19)

12.3 A: # 1, 2, 3, 4

12.3 B: # 8, 13, 14,15, 16 due 4/9

12.4 A: # 3, 5, 7, 11, 12, 15

12.4 B: # 22, 24, 27

12.5 A: # 3-8, 24

12.5 B: # 34 - 37, 39 due 4/16

12.6 A: # 3, 4, 5, 7, 9, 10, 19, 22

12.6 B: # 31

13.1 A: # 6 -10, 13, 15-20, 22

13.1 B: # 36, 38, 39, 41 due 4/23

13.2 A: # 7, 8, 18, 19, 22-23

13.2 B: # 51, 53, 54

Part2 13.2A: #1, 2, 9, 24a,b

13.2B: # 52

13.3 A: # 1, 4, 6, 8, 9, 11, 12, 18, 20  
13.3 B: # 23, 24, 25, 26

13.4 A: # 3, 5, 6a, 7 - 10, 14a

13.4 B: # 33, 34 due 4/30

**MID TERM REVIEW: Chapter 12 & 13**

P 638: P 641: # 1, 2, 4, 5, 8-11, 13-16, 18-19

12.1: #1, 2

12.2: #1, 2, 3, 5 \*\*\*answer for #10 pg 641 b=66. The back of book is *wrong*

12.3: # 1-3

12.4: # 2-6

12.5: # 1-6

12.6: #2-4

P 713:

13.1: # 3, 5-8

13.2: # 1, 2, 3

13.3: # 1- 5

13.4: # 1- 5

14.1 A: # 1, 2, 9, 10, 14

14.1 B: # 19, 23

14.2 A: # 1 - 6, 14, 21

14.2 B: # 10, 16, 25, 27, 30, 31 due 5/14

15.1 A: # 4\* \*also identify the legs using slope

#7, 10 ab+ +using slope and distance classify as parallelograms, rhombuses or rectangles

#15~ ~also determine if the diagonals bisect each other

15.1 B: # 25, 26, 30, 31 due 5/28

16.1 A: # 8, 9, 16, 21, 23, 24, 29, 30

16.1 B: # 1, 3, 34, 35, 37, 38, 41

16.2 A: # 9, 10, 13, 14

16.2 B: #26, 27, 28 due 6/4

**FINAL REVIEW:**

review practice problems:

P 775:

14.1: # 1-3

14.2: # 1-3

p 641: # 1 a,b,d,e,i,j,n, 2, 4, 5, 10, 12, 15, 17

p714: # 1 e, 3, 4, 6, 7, 8, 9, 11c,d,g, 12, 14, 17, 18

p777: # 1a,b,c,d,e,f, 2, 6, 7, 13, 16, 17, 19

p818: #1a,b,c, 3, 12, 13, 16

p873: #1c,d,e,f,g, 7, 10, 11, 18

<https://docs.google.com/document/d/1raxy46jQjP8Yyjtwe2eTFUq782aEzXdDtBw5WKAbssU/edit?usp=sharing>