

## Fundamentals of Mathematics II

MATH 1351.W30C

3/17/2015 – 5/07/2015



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Room 223

### Office Hours

<b>Mar 17–May 7</b>	MTWTh 9:00am–10:00am 2:00pm– 3:30pm
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No appointment is necessary to see me during office hours. Please contact me if you need to see me at some other time.

### About Your Instructor

I want you to succeed in this course! Do your best to earn a high grade. And if you start having difficulties please let me as soon as possible so that I can help you; don't give up!

### Preferred Method of Communication:

The best way to contact me is by email. You can email me anytime; I usually check my email throughout the day and evening. I can also be contacted by phone during office hours. You may leave me a message if I am not in my office when you call.

### Expectations for Engagement for Instructor:

As an instructor, I understand the importance of clear, timely communication with my students. In order to better communicate with my students, I

- have provided my contact information at the beginning of this syllabus;
- when possible, will respond to all messages no later than the next day if received Monday through Thursday, and by Monday if received Friday through Sunday; and,
- notify students of any extended times that I will be unavailable and provide them with alternative contact information (either for me or the chair of the department).

As an instructor, I understand that my students will work to the best of their abilities to fulfill the course requirements. In order to help them in this area, I

- have provided clear information about grading policies and assignment requirements in this syllabus, and
- will communicate any changes to assignments and/or to the course calendar to students as quickly as possible.

As an instructor, I understand that I need to provide regular, timely feedback to students about their performance in the course. To keep students informed about their progress, I will

- provide grades for assignments and exams within one week of submission, and
- post all grades on Blackboard within one week of each exam.

## INFORMATION ABOUT THE COURSE

### Course Description

Concepts of geometry, probability, and statistics, as well as applications of the algebraic properties of real numbers to concepts of measurement with an emphasis on problem solving and critical thinking. This course is designed specifically for students who seek middle grade (4 through 8) teacher certification.

### Course Prerequisites

MATH 1314 passed with a “C” or better.

## REQUIRED MATERIALS

<u>MyMathLab</u>	MyMathLab access is required, and students can register for access at <a href="http://www.mymathlab.com">http://www.mymathlab.com</a> . Computers are available at several places on campus including the Math Lab (WOOD 201) and the library.
<u>Workbook</u>	<i>Mathematics Activities for Elementary School Teachers</i> by Dolan, Williamson, & Muri, 11 <sup>th</sup> Ed. (ISBN-13: 978-0-321-75878-1).
<u>Ruler, Protractor, &amp; Compass</u>	Students should obtain a ruler, protractor, and compass during the first two weeks of class.
<u>Earbuds?</u>	Watching the videos on an Odessa College computer will require a pair of earbuds or headphones. The Math Lab has a limited number of headphones that may be checked out for use in the Math Lab.
<u>Calculator</u>	A calculator is required; a basic calculator is fine for the course. In case you do not already have a calculator, the TI-30 is a relatively inexpensive calculator which will be useful in middle school. Most recommended for middle school is a graphing calculator (the TI-84 in particular) but it is neither necessary nor required for the course.
<u>Paper &amp; Pencils</u>	Standard-size notebook paper and pencils for problem solving and workbook activities.

## OPTIONAL MATERIALS

<u>Textbook</u>	A hardcopy of <i>A Problem Solving Approach to Mathematics for Elementary School Teachers</i> by Billstein, Libeskind, & Lott, 11 <sup>th</sup> Ed. (ISBN-13: 978-0-321-75666-4). Note that MyMathLab includes online access to the textbook.
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## GRADING

At the end of the semester each student's weighted average is computed using the following percentages.\*

Homework Assignments	10%
Workbook Activities	17%
Exam 1-4 (12% each)	48%
Final Exam*	25%
<b>Total</b>	<b>100%</b>

Letter grades are assigned according to the student's weighted average.

Semester Grade	Weighted Average
A	90-100
B	80- 89
C	70- 79
D	60- 69
F	0- 59

\* In order to receive a semester grade of A, B, C, or D the student must score at least 50 on the Final Exam.

Each homework assignment, workbook activity, and exam must be submitted on or before its due date. The Calendar that accompanies this handout shows all start dates and due dates.

### Homework Assignments (10%)

Homework assignments are contained in MyMathLab and are completed online. Each homework assignment will become available in MyMathLab on its start date. The lowest homework assignment score is dropped before calculating the semester average.

### Workbook Activities (17%)

The workbook activities provide a hands-on, manipulative based, problem-solving approach to learning and teaching mathematics. One activity from the workbook is assigned for each chapter.

Each workbook activity assignment will be emailed to students before its start date. Each workbook activity must be completed neatly in pencil. All workbook activity scores are included in the calculation of the semester average.

### Exams (73%)

The exams consist of Exams 1-4 and the Final Exam. Each of Exams 1-4 will become available in MyMathLab on its start date. One score from Exams 1-4 (and no more than one) may be replaced by the Final Exam score.

The Final Exam must be taken in person in the Math Lab in WOOD 201. Students will be required to present an acceptable ID before being allowed to take the Final Exam.

## LATE WORK AND MAKE-UP EXAMS

Late work is accepted, and make up exams are available, only for (1) required participation in an Odessa College athletic event, or (2) the observance of a religious holy day (as defined by Texas Education Code §51.911(2b)). Students are required to notify the instructor prior to any such absence.

## STUDENT COURSE PARTICIPATION

**As a student, I understand that I am responsible for keeping up with the course. To help with this, I**

- will identify alternative computer and internet access in case my primary computer crashes or my internet service is unavailable;
- recognize that the college provides free wi-fi and access to computer labs during regular campus hours to help me with in completing any online assignments; and,
- understand that late work will not be accepted due to technical issues that may arise due to unreliable equipment or service.

**As a student, I understand that it is my responsibility to communicate quickly with the instructor any issue or emergency that will impact my involvement with or performance in the class. This includes, but is not limited to**

- getting “kicked off” of the system during tests or quizzes;
- having trouble submitting assignments; and
- dealing with a traumatic personal event.

**As a student, I understand that it is my responsibility to understand course material and requirements and to keep up with the course calendar. I will**

- seek out help from my instructor and/or from tutors;
- ask questions if I don’t understand; and
- access my course regularly to keep up with assignments, and
- for online courses, check my email frequently so that I am aware of any important announcements.

**As a student, I understand that I will have the opportunity to provide feedback on my experience in this course through an end-of-course Student Evaluation of Instruction (SEI).**

## **COURSE POLICIES**

### **Disclaimer**

This syllabus is tentative and subject to change in any part at the discretion of the instructor. Any changes will be in accordance with Odessa College policies. Students will be notified of changes, if any, in timely manner.

### **Original Effort**

The work submitted for this course must be original work prepared by the student enrolled in this course. Efforts will be recognized and graded in terms of individual performance, but students are encouraged to collaborate with other students in this course.

### **Digital Protocol**

Inside the classroom, cell phones should be placed on either *vibrate* or *silent* mode and students are not allowed to speak on their phone. During lecture phones should be accessed in emergency cases only.

### **Attendance Policy**

There are no lectures to attend for this section of MATH 1350. However, students are required to take the Final Exam in person in the Math Lab in WOOD 201. The calendar shows the dates and times when the Final Exam may be taken.

### **Grade Inquiry Policy**

It is the responsibility of the student to keep track of assignment submissions and grades. At any point, you are welcome to meet with the instructor to discuss your academic progress.

### General Course Requirements

1. Attend class and participate.
2. Contribute and cooperate with civility.
3. Submit assignments on time. See “Late Work & Make-Up Exams” policy shown above under GRADING.

### Incomplete Policy

An ‘Incomplete’ grade may be given only if:

1. The student has passed all completed work
2. If he/she has completed a minimum of 75% of the required coursework. A grade of an “I” will only be assigned when the conditions for completions have been discussed and agreed upon by the instructor and the student.
3. An Incomplete form is submitted.

### COURSE CALENDAR

Start Date	Due Date	Assignment	Topics
3/17			Introduction
3/17	3/20	9.1	How Probabilities are Determined
3/19	3/21	9.2	Multistage Experiments
3/21	3/23	9.3	Using Simulations in Probability
3/23	3/25	9.4	Odds, Conditional Probability, and Expected Value
3/25	3/27	9.5	Using Permutations and Combinations in Probability
3/27	3/28	WB 1	Workbook Activity
3/29	3/30	<b>Exam 1 (Chapter 9)</b>	
3/31	4/02	10.1	Designing Experiments and Collecting Data
4/01	4/03	10.2	Displaying Data: Part I
4/03	4/05	10.3	Displaying Data: Part II
4/05	4/07	10.4	Measures of Central Tendency and Variation
4/07	4/09	10.5	Abuses of Statistics
4/09	4/10	WB 2	Workbook Activity
4/11	4/12	<b>Exam 2 (Chapter 10)</b>	
4/13	4/15	11.1	Basic Notations
4/14	4/16	11.2	Linear Measure
4/16	4/18	11.3	Curves, Polygons, and Symmetry
4/18	4/20	11.4	More About Angles
4/20	4/21	WB 3	Workbook Activity
4/22	4/23	<b>Exam 3 (Chapter 11)</b>	
4/24	4/26	12.1	Congruence Through Constructions

4/26	4/28	12.2	Additional Congruence Properties
4/28	4/30	12.3	Additional Constructions
4/30	5/02	12.4	Similar Triangles and Other Figures
5/02	5/03	WB 4	Workbook Activity
5/04	5/05	<b>Exam 4 (Chapter 12)</b>	
		<b>Final Exam</b>	
		The Final Exam must be taken in person in the Math Lab in WOOD 201 on Wed 5/06 8:30am-8:30pm, or Thu 5/07 8:30am-8:30pm.	

## LEARNING OUTCOMES

Upon successful completion of this course, students will be able to

- demonstrate the use of mathematical reasoning by solving open-ended elementary and middle school problems;
- explain and apply basic concepts of probability;
- formulate questions that can be addressed with data and collect, organize, and display relevant data to answer them;
- analyze characteristics and properties of geometric shapes and develop mathematical arguments about geometric relationships; and
- explain relationships among measurable attributes of objects and determine measurements.

## ODESSA COLLEGE POLICIES

### Tuition Discounts

The **“First Course is Free”** discount waives standard tuition and fees for the first 3 credit hours taken at Odessa College. The discount applies to high school graduates taking their first class at Odessa College as well as transfer students taking their first class at Odessa College.

The **“Academic Progress Discount”** provides a 10% tuition discount upon completion of 30 credit hours until reaching 45 credit hours. It provides a 20% discount upon completion of 45 credit hours until reaching 60 credit hours. Student must maintain a 2.0 GPA to remain eligible for the discount.

### Academic Policies

Note that the OC Student Handbook states (page 32) that “[i]n cases of academic dishonesty, the instructor has the authority to impose appropriate scholastic penalties. Complaints or appeals of disciplinary sanctions may be filed in accordance with the college due process procedure. Copies of the college due process procedure are available in the office of The Director of Student Life (CC104).”

For more information on your rights and responsibilities as a student at Odessa College, please refer to the following: *The 411 of OC: Student Handbook; Student Rights & Responsibilities*  
<http://www.odessa.edu/dept/studenthandbook/handbook.pdf>

## Scholastic Dishonesty

Scholastic dishonesty shall constitute a violation of these rules and regulations and is punishable as prescribed by board policies. Scholastic dishonesty shall include, but not be limited to, cheating on a test, plagiarism and collusion.

### "Cheating on a test" shall include:

- Copying from another student's test paper
- Using test materials not authorized by the person administering the test.
- Collaborating with or seeking aid from another student during a test without permission from the test administrator.
- Knowingly using, buying, selling, stealing or soliciting, in whole or in part, the contents of an unadministered test.
- The unauthorized transporting or removal, in whole or in part, of the contents of the unadministered test.
- Substituting for another student, or permitting another student to substitute for one's self, to take a test.
- Bribing another person to obtain an unadministered test or information about an unadministered test.
- "Plagiarism" shall be defined as the appropriating, buying, receiving as a gift, or obtaining by any means another's work and the unacknowledged submission or incorporation of it in one's own written work.
- "Collusion" shall be defined as the unauthorized collaboration with another person in preparing written work for fulfillment of course requirements. (Source: *Odessa College Student Handbook*)

## Special Populations/Disability Services/Learning Assistance

Odessa College complies with Section 504 of the Vocational Rehabilitation Act of 1973 and the Americans with Disabilities Act of 1990. If you have any special needs or issues pertaining to your access to and participation in this or any other class at Odessa College, please feel free to contact me to discuss your concerns. You may also call the Office of Disability services at 432-335-6861 to request assistance and accommodations.

Odessa College affirms that it will provide access to programs, services and activities to qualified individuals with known disabilities as required by **Section 504 of the Rehabilitation Act of 1973 and Title II of the Americans with Disabilities Act of 1990 (ADA)**, unless doing so poses an undue hardship or fundamentally alters the nature of the program or activity. Disabilities may include hearing, mobility or visual impairments as well as hidden disabilities such as chronic medical conditions (arthritis, cancer, diabetes, heart disease, kidney disorders, lupus, seizure disorders, etc.), learning disabilities or psychiatric or emotional disabilities. A student who comes to Odessa College with diagnosed disabilities which may interfere with learning may receive accommodations when the student requests them and submits proper documentation of the diagnosis. A Request for Accommodations form and guidelines for beginning the request process are available in the OC Help Center or on the Odessa College web site at <http://www.odessa.edu/dept/counseling/disabilities/index.htm>. The college strives to provide a complete and appropriate range of services for students with disabilities such as assistance with testing, registration, information on adaptive and assistive equipment, tutoring, assistance with access and accommodations for the classroom where appropriate. For information regarding services, students with disabilities should contact the Office of Disability Services in the OC Help Center located in Room 204 of the Student Union Building or call 432-335-6433. (Source: *Odessa College Catalog of Courses 2012-2013, page 52*)

## Dropping a Course or Withdrawing from College

Students wishing to drop a non-developmental course may do so online using WebAdvisor, at the Wrangler Express, or Registrar’s Office. A student wishing to drop a developmental course or withdraw from college should obtain a drop or withdrawal form from the Wrangler Express or the Registrar’s Office. Students are encouraged to consult with instructors prior to dropping a class. Students may not completely withdraw from the college by use of the Web. Students must drop a class or withdraw from college before the official withdrawal date stated in the class schedule. Students who are part of the Armed Forces Reserves may withdraw with a full refund if the withdrawal is due to their being ordered into active duty. A copy of the student’s orders must be presented to the Registrar’s Office at the time of the withdrawal. For details, please contact the Office of the Registrar. **No longer attending class does not automatically constitute withdrawal from that class, nor does a student’s notification to an instructor that the student wishes to be dropped. Failure of a student to complete the drop/withdrawal process will result in a grade of “F.”** (Source: *Odessa College Catalog of Courses 2012-2013, page 36*)

## STUDENT SUPPORT SERVICES AND TECHNICAL SUPPORT

### Blackboard Support

#### I can’t log into my Blackboard Course, who do I contact?

Contact the Student Success Center: 432-335-6673 or online at [https://www.odessa.edu/dept/ssc/helpdesk\\_form.htm](https://www.odessa.edu/dept/ssc/helpdesk_form.htm). The SSC can provide you with your Blackboard login name. If you are not sure what your password is, they can reset your password.

#### I’m having a problem in my Blackboard Course, who do I contact?

For any problem that you have in your online course, always contact your Instructor first. Refer to the Instructor’s Contact Information area of the Syllabus for their preferred method of contact and the expected response time.

#### Additional Blackboard Help Resources:

Service	Assistance Provided	Available
<b>Blackboard Help for Students</b>	Website with a searchable list of topics on how to navigate and use Blackboard for online courses.	Online <a href="#">Click here.</a>
<b>Blackboard On Demand Learning Center for Students</b>	This website provides an extensive list of short tutorial videos for student activities performed in Blackboard.	Online <a href="#">Click here.</a>
<b>Blackboard Collaborate: First Time Users</b>	If you have never used Blackboard Collaborate before, this website provides a system requirements check, configuration instructions, and training and resources area.	Online <a href="#">Click here.</a>
<b>Blackboard Collaborate: Essentials for Participants</b>	This website provides essential information for Participants of Collaborate sessions. Any Collaborate user, whether first-time or experienced, would benefit from reviewing the information here.	Online <a href="#">Click here.</a>

### Student E-mail Support

**How do I set up, access, or update my Odessa College Student E-mail account?** Go to this website and follow the directions on the page: <http://www.odessa.edu/gmail/>.

**I can't access my student email! I forgot my password!**

Contact the Student Success Center: 432-335-6673 or online at [https://www.odessa.edu/dept/ssc/helpdesk\\_form.htm](https://www.odessa.edu/dept/ssc/helpdesk_form.htm). They can provide you with assistance in accessing your student email (created by OC) and can also assist with resetting your student email password. Make sure to have your student ID number available!

**Your Blackboard login name is associated with your OC created student email account. All Correspondence for this course will be submitted using your Odessa College student email address.**

**Support for Students with Disabilities****How do I contact the Office of Special Populations?**

<i>Main Number</i>	432-335-6861
<i>Campus Location</i>	SUB 204N in the Student Union Building
<i>Email</i>	Becky Rivera-Weiss - <a href="mailto:brivera@odessa.edu">brivera@odessa.edu</a>
<i>Website</i>	To find out more about services provided by the Special Populations office, please visit: <a href="http://www.odessa.edu/dept/counseling/disabilities/index.htm">http://www.odessa.edu/dept/counseling/disabilities/index.htm</a>

**Learning Resources Center (LRC; Library)****How do I contact the Learning Resource Center?**

<i>Main Number</i>	432-335-6640
<i>FAQ Service</i>	LibAnswers: <a href="http://libanswers.odessa.edu">http://libanswers.odessa.edu</a>
<i>Contact a Specific OC Librarian</i>	Pat Quintero at 432/335-6350 or <a href="mailto:pquintero@odessa.edu">pquintero@odessa.edu</a> Donna Clark at 432/335-6645 or <a href="mailto:dclark@odessa.edu">dclark@odessa.edu</a> Carolyn Petersen at 432/335-6641 or <a href="mailto:cpetersen@odessa.edu">cpetersen@odessa.edu</a>
<i>LRC Services and Guidelines Website</i>	<a href="https://www.odessa.edu/dept/library/services/index.htm">https://www.odessa.edu/dept/library/services/index.htm</a>

**Equipment and Services Provided:**

The Murry H. Fly Learning Resources Center (LRC) supports the college's curriculum resulting in a primary emphasis on each student's individual study and research needs. The faculty and staff work with the LRC's Technical Services and Public Services Departments in choosing materials to support all college programs. More than 59,000 books, 50,000 electronic books, 350 current periodicals, 6,700 media holdings, eight newspapers, and 60 databases are available to enhance the educational process.

Equipment/Services Available	Used For	Available
Books, videos, CDs	Research	On Campus and Online

Specialized databases not available online for free	Research	On Campus and Online
Magazines, newspapers, & scholarly journals	Research	On Campus and Online
Computers	Research & word processing	On Campus
Selected textbooks for short-term use	Course work	On Campus
Trained staff	Answer "where do I find...?"	On Campus and Online
Tutorials	Tips for research strategies	On Campus and Online
Photocopiers, VHS/DVD players, FAX service	For course work	On Campus
Quiet study areas	For course work	On Campus

### Student Success Center (SSC) / AVID Center

#### How do I contact the Student Success Center?

*Appointments are preferred, but walk-ins will be served as soon as possible.*

<b>Main Number</b>	432-335-6673
<b>Campus Location</b>	1st floor of the Library
<b>Website with Additional Help and Information</b>	<a href="http://www.odessa.edu/dept/ssc/">http://www.odessa.edu/dept/ssc/</a>
<b>Live Online Assistance / Chat</b>	<a href="#">Click Here</a> (If no one is currently available, please put your email and question(s) in the appropriate areas of the form and hit 'send.' Your question(s) will be addressed as soon as an SSC staff member becomes available.)

#### Equipment and Services Provided:

The purpose of the Odessa College Student Success Center is to provide assistance to students in meeting their academic and career goals. The SSC strives to continually provide new and updated resources that will empower all Odessa College students to succeed at OC and beyond.

Equipment/Services Available	Used For	Available
Tutoring by CRLA & Avid trained tutors	Understanding course work and motivation	On Campus and Online <a href="#">Click here for more information.</a>
Student Information Seminars (SIS)	Demo email, Blackboard and SSC resources	On Campus and Online <a href="#">Click here for more information.</a>
Study Skills	Tools needed to succeed	On Campus and Online

		<a href="#">Click here for more information.</a>
Basic Technology	To navigate classes, email, etc.	On Campus and Online
Plato Web	Practice for TEAS test and basic math, science, etc.	On Campus and Online <a href="#">Click here for more information.</a>
Project T.I.E.	Practice for GED/COMPASS	On Campus and Online <a href="#">Click here for more information.</a>
Student Orientation/Tour	Show individual students where their classes will be. SIS presentation	On Campus
M.O.R.E. Mentoring Program	Networking, tips to navigate college life successfully	On Campus <a href="#">Click here for more information.</a>
Smart thinking	Online tutoring service. Connect with an e-structor and interact with a live tutor.	Online <a href="#">Click here for more information.</a>

## Veterans Support

### How do I contact the office for Veteran's Outreach?

<b>Main Number</b>	432-335-6833
<b>Campus Location</b>	204M (Help Center) in the Student Union Building
<b>Email</b>	Gloria Rangel - <a href="mailto:grangel@odessa.edu">grangel@odessa.edu</a>
<b>Website</b>	To find out more about services provided by the Veteran's Outreach office, please visit: <a href="http://www.odessa.edu/dept/counseling/veterans/index.htm">http://www.odessa.edu/dept/counseling/veterans/index.htm</a>