

**University of Delaware**  
**Department of Mathematical Sciences**

## **Fall 2020 SYLLABUS: MATH 117-11: Precalculus for Scientists & Engineers**

**Instructor:** Melissa Fuentes **Email Address:** [melfue@udel.edu](mailto:melfue@udel.edu)

**Course Website:** <https://melfue.wixsite.com/udwebsite/math117-fall2020>

**Course Meeting Times:** MWF 1:25 – 2:15 PM (Lecture), T 12:30 – 1:20 PM (Discussion)

Check Canvas for our Zoom Meeting ID and password.

*All lectures and discussions will be recorded and uploaded to Canvas under “Media”.*

**Office Hours:** Wednesdays 3:30-4:30 PM, Fridays 11 AM-12PM, 2:30-3:30 PM

*Held via Zoom – same meeting ID and password as lecture and discussion.*

**Textbook:** *Precalculus: Mathematics for Calculus* 7th Ed. by Stewart, Redlin, Watson (purchase not necessary).

**Course Prerequisites:** Math Placement score of 65 or above or a grade of C- or better in Math 010 Intermediate Algebra. The content of Math 010 is assumed known and you may be in serious jeopardy if you have not mastered this content prior to taking Math 117.

**Course Description:** This course provides the basis for skills and understandings needed for the study of calculus and other sciences.

**The major topics of Math 117 include:** Review and summary of algebra skills, functions and their associated notation (linear, quadratic, polynomial, rational, exponential, logarithmic, and trigonometric functions), graphing principles, composition of functions, inverse functions.

All of these topics provide the skills and understandings needed to succeed in Math 241, *Analytic Geometry and Calculus A* and many science courses.

### **Required Materials:**

- **Web Assign Access (includes e-book).** Web Assign is a web-based software program associated with the text through which you will be completing assignments and accessing your e-book. You may opt for a 2-week trial to begin. For WebAssign registration instructions, [click here](#). **WebAssign Class Key:** udel 8776 9427
- **Scientific Calculator required.** You will be required to use a scientific calculator on exams and quizzes. The TI-30XIIS is highly recommended. Only scientific calculators are allowed – this is a very specific type of calculator. **Graphing calculators, phone calculators, or any other electronic devices are not allowed on classwork, assignments, exams, and quizzes.**

*If you add the course late, email me to set up a Zoom appointment so that I can go over any assignments or announcements you have missed. It is your responsibility to catch up with the rest of the class. All missed assignments must be completed within two weeks of beginning class.*

**Technical requirements:** The entirety of this course will be online with course meetings and office hours done via the **Zoom** meeting platform, quizzes and exams done via Canvas, and assignments done through Web Assign which is a product that includes all course homework assignments, e-textbook, etc. You must have a **reliable** computer and internet is required.

- **Computer:** You must have a computer that is no more than 4 years old running. Windows or Mac OSX with a working webcam and microphone.
- **Internet access:** You must have a high speed and stable internet connection that performs with at least 10 mbps upload and download speeds. Test your connection speed at <https://www.speedtest.net/>.
- **Scanner:** Phone scanners or other devices can be used. You will need to upload pdf files to Canvas for classwork worksheets, quizzes, and exams. I recommend using SmallPDF (<https://smallpdf.com/download>), which is free and works on iPhones and androids.

- **LockDown Browser + Webcam Requirement:** This course requires the use of LockDown Browser and a webcam for online exams. The webcam can be the type that's built into your computer or one that plugs in with a USB cable.  
Watch this brief video to get a basic understanding of LockDown Browser and the webcam feature:  
<https://www.respondus.com/products/lockdown-browser/student-movie.shtml>

## Course Assessments

**Course Schedule & Classwork Worksheets:** You will find the course schedule, classwork worksheets, suggested practice problems, and useful study resources on the course website. Please check the course page on a daily basis. Your classwork is part of your Quizzes and Classwork grade, which is worth 10% of your course grade.

**Pre-Class Assignments:** Once a week you will be required to complete a short assignment before lecture. The assignment will be posted on WebAssign after the preceding lecture and will be available 24 hours before a lecture to complete (always due 1 minute prior to lecture). If a pre-class assignment is assigned before a lecture, I will assume at the beginning of the lecture that you have watched the included video and that you have solved the associated problems.

**WebAssign Homework:** WebAssign is the Internet program associated with the textbook and the course. The problems on WebAssign will mirror several of the problems done during lectures and discussions, but they will vary in difficulty. Your HW assignments for the week will be available on Mondays by 12 AM and you will have the entire week to complete them, until Sundays at 11:59 PM. You can go in and out of an assignment as many times as you like, just as you would as you work a textbook assignment.

Some suggestions:

- DO NOT rush through your WebAssign homeworks.
- Do NOT focus exclusively on the WebAssign assignments. Achieving high scores on the Web Assign assignments, does NOT necessarily mean you will do well on quizzes and exams.

**Quizzes:** There will be a quiz every Friday, unless there is an exam scheduled for that day instead. On the Fridays we have quizzes your quiz will be available on Canvas for you to take at any time between 12:00 AM to 11:59 PM.

**Exams:** During the semester there will be 3 exams, each of which are worth 15% of your grade. They will each contain roughly 4 to 5 week's worth of material learned. Any problems similar to WebAssign homework problems, examples done in lecture, pre-class assignment problems, quiz problems, in classwork worksheet problems, or practice problems (listed on the course website) are fair game on the exam!

### Tentative Exam Dates:

**Exam 1:** Friday, Oct. 2<sup>nd</sup>, **Exam 2:** Friday, Nov. 6<sup>th</sup>, **Exam 3:** Wednesday, Dec. 9<sup>th</sup>, **Final Exam:** TBA

**Course Grades:** All grades will be posted on your WebAssign gradebook, but not on Canvas. Your final course grade will be determined by the accumulation of points which will be weighted as follows:

Graded Activity		Percentage
<b>Homework</b>	Pre-Class Assignments 5%	<b>20% total</b>
	WebAssign 15%	
<b>Quizzes &amp; Classwork</b>		<b>10%</b>
<b>Exams</b>	1 <sup>st</sup> Exam 15%	<b>45% total</b>
	2 <sup>nd</sup> Exam 15%	
	3 <sup>rd</sup> Exam 15%	
<b>Cumulative Final Exam</b>		<b>25%</b>

Grade		Percentage	
A	91-100%	C	71-74.999%
A-	88-90.999%	C –	68-70.999%
B+	85-87.999%	D+	65-67.999%
B	81-84.999%	D	61-64.999%
B –	78-80.999%	D –	58-60.999%
C+	75-77.999%	F	0-57.999%

*Please let me know if there is anything I can do to make this course a better and more effective learning experience!*

## Other Course Policies and Important Information

**Communication:** Communication is extremely important in an online course environment. I will be sending out Canvas announcements and emails on a weekly basis, so please be sure to read these announcements and emails! Please do not neglect to contact me if you feel isolated or are having difficulty. I hope you will find the time to visit me during my Zoom office hours. Answering your questions, surveying your work, and providing additional insights are important to your progress and I enjoy working one-on-one with students!

**Extra Credit:** There will be no extra credit assignments given in this course. However, bonus questions may or may not appear in exams and/or quizzes. They will usually be worth 2 to 3 points.

**Make-Up Quizzes & Exams:** Make-up quizzes and exams will only be given for cases when there is a medical/family emergency. **If you miss an exam due to an unexcused absence, your exam score will be zero. If you have to miss an exam due to an excused absence, the documentation must contain a verifiable date and time and be submitted within two days of the exam date.**

**Online Tutoring Resources:** There are free tutoring resources for this course. I recommend you carefully investigate these useful resources:

- Office of Academic Enrichment (OAE): The OAE will provide tutoring remotely through the Zoom program. Please check their website for the latest update: <http://www.ae.udel.edu/>
- **MSLL Open Lab:** This site will also provide free tutoring assistance. The [MSLL webpage](#) will also be updated with more information when we know more.

**DSS:** Any student who needs an accommodation based on a disability should contact the Office of Disability Support Services (DSS) office as soon as possible. The DSS office is located at 240 Academy Street, Alison Hall Suite 130, Phone: 302-831-4643, Fax: 302-831-3261, DSS website ([www.udel.edu/DSS/](http://www.udel.edu/DSS/)). You may contact DSS at [dssoffice@udel.edu](mailto:dssoffice@udel.edu).

**Academic Dishonesty:** Please familiarize yourself with UD policies regarding academic dishonesty. “To falsify the results of one’s research, to steal the words or ideas of another, to cheat on an assignment, to re-submit the same assignment for different classes, or to allow or assist another to commit these acts corrupts the educational process. Students are expected to do their own work and neither give nor receive unauthorized assistance.” Complete details of the university’s academic policies and procedures can be found at [www1.udel.edu/studentconduct/policyref.html](http://www1.udel.edu/studentconduct/policyref.html).

**Application to Math 117:** Follow the instructions carefully on any of the Math 117 assessments. If you have any concerns, please ask. When completing an assignment, quiz, or exam you are only permitted to use a scientific calculator of the type mentioned under Course Materials (see page 1). **No other electronic equipment can be used or be on your person. This includes cell phones, smart watches, etc.** Having a cell phone or any unauthorized materials in your pocket or on your person will be considered a cheating offense and dealt with through the Office of Student Conduct.

*Submission of a course assessment will imply you have agreed to this code of conduct as well as the official [UD student code of conduct](#). We are all responsible for preserving academic integrity of the course assessments.*