

**MONTGOMERY COLLEGE**  
**DEPARTMENT OF MATHEMATICS**  
**ROCKVILLE CAMPUS**  
**Mathematical Ideas; MATH115A CRN 31151**  
**Spring 2018**

**Professor:** Dr. Fred Katiraie ([fred.katiraie@montgomerycollege.edu](mailto:fred.katiraie@montgomerycollege.edu))  
**Classroom:** Science Center Room 461  
**Class Hours:** Monday, Wednesday, Friday from 10:00 AM to 11:25 AM  
**Office Hours:** Tuesdays 6:00 to 6:30 PM,  
Thursdays 1:30 to 2:00 PM, and please see the following:

**Office:** Science Center Room 354P  
**Phone:** (240) 567-8060

**Optional Review Sessions for Math 115A Students:** Thursdays 5:00—6:00 PM in Ackerman Learning Center  
(formerly Math Science Center) Room 103

**Optional Review Sessions for Calculus II Students:** Wednesdays 4:30—6:30 PM in Ackerman Learning Center  
(formerly Math Science Center) Room 103

**Optional Review Sessions for Calculus I Students:** Wednesdays 2:00—4:00 PM in Ackerman Learning Center  
(formerly Math Science Center) Room 103

**Website:** <http://web4students.montgomerycollege.edu/facultyFTPSites/fkatira1/>

**Math Club Tutoring Hours in Science Center Room 362:** Fridays 3:00 to 5:00 PM.

**Course Description:** Math 115A is intended as a terminal course in mathematics for students of the arts and humanities. Its goal is twofold: to fulfill the requirement that students be “proficient” in college level algebra and to give arts and humanities students a survey of mathematical thinking and quantitative reasoning in a variety of different areas of study and real life applications. As part of the first goal, students must pass an algebra proficiency exam in order to get credit for this class (regardless of their performance on other assessments). **Prerequisite:** A grade of C or better in MATH080 (formerly known as MA 094) or a grade of A in MA 091, MA 091A or MA 091D, or appropriate score on the Accuplacer Algebra Test or consent of the department. **Assessment levels:** EN 101/101A RD 120.

**Course Outcomes:** The course outcomes for MA 115A can be found on the department website:  
<http://www.montgomerycollege.edu/Departments/math/Outcomes/MA115Aoutcomes.pdf>

**Textbook:** *Quantitative Literacy Thinking Between the Lines*, Crauder et al, WH Freeman and Company,

You may choose to get the webassign access code by one of the following options:

**Option 1) Webassign Access Code (which has access to eBook ISBN: 9781319038618. The above can be purchased for \$79.50 at the MC Bookstore.**

**Obtaining The physical Textbook is Optional: Quantitative Literacy (Loose Pgs) Author: Crauder ISBN: 9781464125164**

**Copyright Year:** 2015

**Publisher:** W. H. Freeman & Company \$154.00 at the MC Bookstore.

**Required Supplies:** A Graphing calculator, and Webassign Access Code

**Calculator Policy:** A TI-83 or TI-84 graphing calculator (any model) is **required** for this class. You definitely need a working calculator during tests. Please don't expect to borrow one! **You may not share calculators with other students during a test.** Neither may you use a cell phone as a calculator. Changing the batteries in your calculator periodically ensures that your calculator is in working condition when you need it! **You are required to bring your calculator to each and every class.**

**Attendance:** You are expected to attend every class, and have your textbook, paper & pencil and calculator with you. Observe that attendance will be considered in your performance in the class. If you miss a class you are responsible for getting the notes and assignments in on time. **I expect you to arrive to class on time.**

**Please be aware that you may be dropped if you accumulate absences whose sum is equivalent to more than one week worth of classes. As a result a student may be dropped before the college official deadline date for “withdrawals with a W”.**

If you should miss a class, it is your responsibility to find out what you have missed and to read the book to study the material. Please ask one of your fellow classmates for assignments. Do not expect that during my office hours I should summarize for you what you have missed.

**Class Binder:** There are some bad work habits which may hinder one's performance in a course such as this one. As an example, sloppy handwriting often causes careless mistakes that lead to unnecessary confusion and lack of confidence in one's work. In order to ensure that your work for this course is organized, you will be required to have a 3-ring binder (or a folder of your choice) which contains separate sections for:

- Worksheets,
- Homework assignments
- Quizzes, tests and handouts ( such as syllabus )
- Class notes

**Homework:**

Do it on a daily basis! This is the way of studying math and it's the only way to master the material.

**Course Requirements:**

**Homework** The majority of homework will be assigned online through MathPortal (included with the textbook bundle). **No extensions will be granted for HW.** All homework should be completed before the next lecture. However, homework will be due later to allow for any unexpected emergencies. For this reason, computer difficulties are not a valid reason for not doing homework. Computers are available to you at the Math/Science Center in MT 02.

To sign up for your course:

1. Go to <http://Webassign.net> (Mac users need to use Firefox).
2. Use the Self Enrollment, Class Key:

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3. Create username and password for yourself. (Be sure to write them down and remember them).
4. Now, you can use the access code that came with your textbook bundle (which you purchased from MC bookstore), or you can purchase the access code directly from the Webassign.net website.

**From the book portion**

**When you don't have access to the internet practice, do problems from the book.**

Questions on homework will be discussed at the beginning of each class; however, I recommend that you come to my office (see office hours), or use the Math Science Center to clarify your questions.

**Some problems may be assigned to turn in. NO SPIRAL PAPER ACCEPTED, neatness required, papers should be stapled!!!!**

**Exams** There will be 4 exams given on the following dates. Dates for exams are subject to change but will be discussed in class. If you miss class, it is your responsibility to read the class summary or ask a fellow student what you missed.

Algebra Competency Test	Friday, March 2 <sup>nd</sup>
Exam 1	Friday, March 23 <sup>rd</sup>
Exam 2	Friday, April 13 <sup>th</sup>
Exam 3	Wednesday, May 2 <sup>nd</sup>

**Grading Policy and Criteria:**

<i>Assessment</i>	<i>Percentage</i>
Exam 1	15%
Exam 2	15%
Exam 3	15%
Homework	10%
Quizzes	20%
Final Exam	25%

A	90%-100%
B	80%-89%
C	70%-79%
D	60%-69%
F	< 60%

Excellent Webassign Homework      With This, You Can Drop Your Lowest Quiz  
Attendance & Participation      With This, You Can Drop Another Lowest Quiz  
Math Science Center Visits      With This, You Can Drop Yet Another Lowest Quiz

If you miss an assignment, you will receive a score of 0 for that assignment. Note that your score on the Algebra Competency Test does not count towards your final grade.

**You MUST score at least 70% on the Algebra Competency Test to pass the course. If you don't pass the test, you will be given one more try to pass a similar test. If you don't pass on the second attempt, you will not receive a passing grade in Math 115A and you will not be allowed to sit in the class. If you do not show up for the first attempt of the Algebra Competency Test, you will not be allowed a second attempt unless you have a DOCUMENTED excuse. You will be advised to withdraw from the class so you don't receive an "F". If you do not show up for a scheduled second attempt of the Algebra Competency Test, you are advised to withdraw from the class so you don't receive an "F".**

**Make-up Policy:** There will be no makeup exams after an exam is missed. Arrangements to take exams on another day must be made **PRIOR** to the day of the test and are only considered for approved documented excuses. Appointments do not count as documented excuses. You must notify me immediately (by email) of any emergency that prevents you from taking an exam at a given time. Be sure to provide contact information so I can communicate with you. If you do not notify me before the end of the exam day, you may receive a grade of 0 on that exam.

The second attempt of the Algebra Competency Test must be taken within one week of the first attempt in the Assessment Center. If you do not show for the test (1<sup>st</sup> or 2<sup>nd</sup> attempt) at the specified time, you will earn a 0.

If a student misses Exam 1, 2, or 3 due to a documented emergency, then the final exam percentage grade will replace the missing test grade. If a student misses more than one exam, only the first missed exam score will be replaced. All others will receive a score of 0.

At the end of the course, if you earn 90% or higher on your Homework AND have 3 or less absences (note that 2 tardiness equals 1 absence), then I will replace your lowest exam grade from Exams 1, 2, and 3 with your final exam percentage grade.

There are no makeup quizzes.  
No late homework will be accepted for any reason.

**Please be advised that on the day of exam/quiz:**

*I will not provide calculators/pencils.  
You will not be permitted to leave the room.  
You may not use or even hold a cell phone.  
You will not be allowed to share calculators*

**Make-up Policy:** There are NO MAKE UPS for quizzes and exams.

**Important Dates:** Refer to the TENTATIVE SCHEDULE page

**E-mail Communication Statement:** MC student e-mail is an official means of communication for Montgomery College. Students are responsible for information and announcements sent via MC e-mail, and it is expected that students check their student e-mail regularly. When e-mailing **professor Aronne, please use your MC e-mail account, proper grammar and punctuation. On the subject indicate your name, last name, class and time of your class.**

## Ackerman Learning Center (formerly known as Math Science Center)

**Math/Science Tutoring Lab:** There is a tutoring lab in room 109 of Science Center West.

This service is **FREE** to Montgomery College students.

Please **DO NOT WAIT TO THE LAST MINUTE!**

Go to the lab on a regular basis – get to know the facilities and the tutors. The lab phone number is (301)279-5200.

<http://cms.montgomerycollege.edu/edu/department2.aspx?id=27408>

**MSC Fall hours of operation are:**

Monday - Thursday	8:00 a.m.	-	8:00 p.m.
Friday	8:00 a.m.	-	4:00 p.m.
Saturday	10:00 a.m.	-	3:00 p.m.
Sunday	Closed		

**Accommodations for Students with Disabilities Statement:** Disability Support Services (240-567-5058)

*Any student who may need an accommodation due to a disability, please make an appointment to see me during my office hour. In order to receive accommodations, a letter from Disability Support Services(R-CB122; G-SA175; or TP-ST120) will be needed. Any student who may need assistance in the event of an emergency evacuation must identify to the Disability Support Services Office; guidelines for emergency evacuations are at:*

[www.montgomerycollege.edu/dss/evacprocedures.htm](http://www.montgomerycollege.edu/dss/evacprocedures.htm).

**Attendance Policy:** You are expected to attend all class sessions, arrive on time and stay for the entire session. *If you are absent more than four times, you may be dropped from the class without warning.* Note that two tardies count as one absence. If you decide to drop the class, **you** must submit a drop form to the registrar or you will receive an F.

A tardy is arriving late to class or leaving before class has ended. Early in the semester, I will ask you your name when you arrive late or leave early. Eventually, I will know your name but will still record tardies silently. **Keep in mind that arriving late for class is disruptive to your fellow students.**

IF YOU MISS A CLASS, DO NOT EMAIL ME ASKING WHAT YOU MISSED. It is your responsibility to find out what you missed by asking a fellow student, checking syllabus, or see our course website.

**Important Dates:** The comprehensive 2 hour final exam will be given Monday May 11<sup>th</sup> from 12:30 pm – 2:30 pm. All students are required to take the exam at the scheduled time.

**Dropping:** Check with MyMC Class Schedule for YOUR Specific Deadlines to Drop with W for Spring 2015

**Last Day to Drop with Refund:**

**Last day to Add/Drop without W:**

**Last day to Drop with W:**

**E-mail Communication Statement:** MC student e-mail is an official means of communication for Montgomery College. Students are responsible for information and announcements sent via MC e-mail, and it is expected that students check their student e-mail regularly. When e-mailing an instructor, it is expected that students use their MC student e-mail account.

**Math Science Center:** Rockville Campus, Math/Science Center, Macklin Tower 02, 240-567-5200,

Hours: M-T 8-8, F 8-4, S 10-3 (subject to change)

<http://www.montgomerycollege.edu/Departments/mathscriv/>

**MyMC:** Use your MyMC account to access class summaries, the syllabus, and handouts including worksheets and solution sets. I will post an update after each and every class detailing due dates and topics discussed during that class period. If you miss class, this is your resource to find out what you missed! If you email me, I will refer you to the class summary located on MyMC. To access this information, login to your MyMC account. Select the MyCOURSES tab and select MATHEMATICAL IDEAS. Click on FILES to access the documents listed above.

## **Classroom Expectations**

Students are expected to conduct themselves in a professional manner while in the classroom. No food is allowed. No videotaping allowed. **Cell phones and pagers must be turned off before entering the classroom.** No texting, no surfing, no talking, no chewing gum. Disruptive behavior (including being disrespectful to anyone in the classroom) will not be tolerated. I *will* call you out if you disrupt the classroom in any way and you will be asked to leave the classroom. If you do not leave, I will contact Security. If your cellphone is out during class, you may be asked to leave the classroom.

**Talking, holding a cell phone, or sharing calculators after the first student receives a quiz or exam is considered cheating. Copying another person's work for any assignment is considered cheating.**

### **College Policies that Support this Course, MA115A**

**Student Code of Conduct (Standards of College Behavior):** Montgomery College seeks to provide an environment where discussion and expression of all views relevant to the subject matter of the class are recognized and necessary to the educational process. However, students do not have the right to interfere with the faculty member's right to teach or the other students' rights to learn. Faculty and staff set the standards of behavior that are within the guidelines and spirit of the Student Code of Conduct or other College policies for classrooms, events, offices, and areas, by announcing or posting these standards early in the semester. For more information, please refer to Number 42001 in [http://cms.montgomerycollege.edu/pnp/#Chapter\\_4](http://cms.montgomerycollege.edu/pnp/#Chapter_4)

**Academic Regulations (Academic Honesty):** Academic dishonesty in college is a very serious offense. Each student is expected to do his/her own work on all quizzes and tests and class and homework exercises. Students who engage in any act that the classroom instructor judges to be academic dishonesty or misconduct are subject to sanctions. For more information, please refer to Number 42001 in [http://cms.montgomerycollege.edu/pnp/#Chapter\\_4](http://cms.montgomerycollege.edu/pnp/#Chapter_4)

**Attendance Policy:** Students are expected to attend all class sessions. In cases involving excessive absences from class, the instructor may drop the student from the class. An excessive absence is defined as one more absence than the number of classes per week during a fall or spring semester; the number of absences is pro-rated for accelerated sessions.

**Withdrawal and Refund Dates:** It is the student's responsibility to drop a course. Non-attendance of classes or failure to pay does not constitute official withdrawal. To view specific drop deadlines, log into your MyMC account:

Click on 'My Class Schedule' under Student Quick Links

Select the current term

Click on 'View Drop Deadline Dates' at the bottom of the page

**Audit Policy:** All students registered for audit are required to consult with the instructor before or during the first class session in which they are in audit status, and students are required to participate in all course activities unless otherwise agreed upon by the student and instructor at the time of consultation.

**Accommodations for Students with Disabilities Statement (Disability Support Services):** Any student who needs an accommodation due to a disability should make an appointment to see the course instructor during office hours. In order to receive accommodations, a letter from Disability Support Services (LOCATIONS: Germantown-SA 189; Rockville-CB 122; or Takoma Park/Silver Spring-ST 122) will be needed. Furthermore, any student who may need assistance in the event of an emergency evacuation must identify to the Disability Support Services Office; guidelines for emergency evacuations for individuals with disabilities are found at: <http://cms.montgomerycollege.edu/EDU/Plain2.aspx?id=4162>

**Veteran's Services:** If you are a veteran or on active or reserve status and you are interested in information regarding opportunities, programs and/or services, please visit the Combat2College Web site at <http://www.montgomerycollege.edu/combat2college/>

**Inclement Weather(Delayed Opening or Closing of the College):** On occasion, Montgomery College will announce a late opening or early closing of a specific campus or the entire college because of weather conditions or other emergencies.

- ❖ *If a class can meet for 50% or more of its regularly scheduled meeting time **OR** if the class can meet for 50 minutes or more, it will meet.*
- ❖ Montgomery College will always operate on its regular schedule unless otherwise announced. Depending on the nature of the incident, notifications of emergencies and changes to the College's operational status will be communicated through one or more communication methods including the College's web page <http://montgomerycollege.edu>

For the most up-to-date information regarding College openings, closings, or emergencies, all students, faculty, and staff are encouraged to sign up for email and text alerts via Montgomery College ALERT. Registration information is available at [www.montgomerycollege.edu/emergency](http://www.montgomerycollege.edu/emergency)

**Communication:** The Montgomery College e-mail account is the official means of communication. Check your email account routinely for course announcements, invoices, important admission/registration information, waitlist status etc.

**Course Changes:** The instructor reserves the right to alter the schedule of the course if necessary but will notify the students of any changes to the schedule before the changes are implemented.

**MA 115A Tentative Course Schedule Spring 2016**

<b><i>Week (Dates)</i></b>	<b><i>Chapter's Sections</i></b>
#1 (January 22, 24, 26)	Overview, 2.1, 2.2
#2 (January 29, 31, February 2)	2.2, 3.1 <span style="float:right"><b><i>Quiz 1 Friday</i></b></span>
#3 (February 5, 7, 9)	Exponential Functions, 3.2 <span style="float:right"><b><i>Quiz 2 Friday</i></b></span>
#4 (February 12, 14, 16)	Logarithmic Functions, 3.3 <span style="float:right"><b><i>Quiz 3 Friday</i></b></span>
#5 (February 19, 21, 23)	Quadratic Functions, 3.4 <span style="float:right"><b><i>Quiz 4 Friday</i></b></span>
#6 (February 26, 28, March 2)	Review, Review, <b><i>Algebra Competency Test (on Friday March 2<sup>nd</sup>)</i></b>
#7 (March 5, 7, 9)	4.1, 4.2 <span style="float:right"><b><i>Quiz 5 Friday</i></b></span>
<b>March 12--16</b>	<b>SPRING BREAK (NO CLASSES)</b>
#8 (March 19, 21, 23)	4.3, 1.4, Review, <b><i>Exam 1 (Friday March 23<sup>rd</sup>)</i></b>
#9 (March 26, 28, 30)	5.1, 5.2 <span style="float:right"><b><i>Quiz 6 Friday</i></b></span>
#10 (April 2, 4, 6)	5.3, 5.4 <span style="float:right"><b><i>Quiz 7 Friday</i></b></span>
#11 (April 9, 11, 13)	5.4, Review, <b><i>Exam 2(Friday April 13<sup>th</sup>)</i></b> (Exam 2 will consist of 75 points from sections 5.1, 5.2, 5.3, 5.4, and 25 points from materials from your exam 1)
#12 (April 16, 18, 20)	6.1, 6.2, 6.3 <span style="float:right"><b><i>Quiz 8 Friday</i></b></span>
#13 (April 23, 25, 27)	7.1, 7.2 <span style="float:right"><b><i>Quiz 9 Friday</i></b></span>
#14 (April 30, May 2, May 4)	Review, <b><i>Exam 3(Wednesday May 2<sup>nd</sup>)</i></b> (Exam 3 will consist of 75 points from sections 6.1, 6.2, 6.3, 7.1, 7.2, and 25 points from materials from your exam 2), Review for Final on Friday

**The instructor reserves the right to amend this syllabus as appropriate throughout the semester. Students will be notified of any such changes.**

**Final Exam: FINAL EXAM for our class is on MONDAY May 7<sup>th</sup> at TIME: 10:15 AM – 12:15 PM**

The final exam is comprehensive over all materials from chapters 4, 5, 6, and 7. Failure to take the final will result in a grade of F for the course