

# Math 105 – Math in Society

Portland Community College, SE Campus  
2305 SE 82<sup>nd</sup> Ave., Portland, OR 97216  
CRN: 45338 & 48175, 4 Credits



M/W: 9:00 – 11:20 am

SCOM 324

Fall 2018

Instructor: Cara Lee

Email: [cara.lee@pcc.edu](mailto:cara.lee@pcc.edu)

Telephone: 971-722-3773

Office: SCOM 214

Website: [www.caraleemath.com](http://www.caraleemath.com)

Student Office Hours: **Mon/Thurs, 11:30-1:00 pm** in SCOM 214

**Tues/Wed, Noon-1 pm** in the Tutoring Center, AND by appointment, just ask!

**Welcome! You belong here!** I value differences and appreciate working with students of all races, ethnicities, ages, documentation statuses, sexual orientations, gender identities and expressions, abilities, sizes, shapes, socio-economic backgrounds and educational backgrounds. I plan to learn as much from you as I hope you will learn from the experience of this class. PCC is a sanctuary college and you can read more at <https://www.pcc.edu/resources/undocumented-students/>.

**Teaching Philosophy:** I believe education is vital to our democracy. Higher education is the main pathway to a higher income and more fulfilling work. College is also a time of exploration and meeting people who are different from us. I love connecting with people and playing with numbers and patterns. My goal is for you to be comfortable and confident with math so you are prepared to make important life decisions. I want to get to know you and how you learn. I want you to challenge ideas and ask lots of questions. I strive to make learning relevant and fun!

**Grading Philosophy:** You are a person separate from your grade. I am always on your side in grading and I want you to succeed. A score is a measure of the skills you have demonstrated and communicated. I will do my best to provide useful feedback on your work and your participation so you can learn. There is not just one way to do anything so your way is more valuable to you than my way. You will be discussing ideas and concepts with your group. I want you to internalize the material and write it up in your own way. No two papers should look identical.

**Link to Description, Outcomes and Course Content:**

<http://www.pcc.edu/ccog/default.cfm?fa=ccog&subject=MTH&course=105>

**Required Materials:**

- **Free Online Textbook:** [http://spot.pcc.edu/~caralee/Math\\_105](http://spot.pcc.edu/~caralee/Math_105). You can get an optional printed copy at the bookstore for \$18. It is loose-leaf so you'll need a 3-ring binder to put it in.
- **Free Online Homework System:** <https://www.myopenmath.com>.
  - Course ID: 40375
  - Enrollment Key: math105fallmw
- **1 or 1 ½-inch 3-ring binder**, 5 or more dividers (or post-it notes or flags), lined paper, pencils and erasers and sharpener. A few colored pens, pencils or highlighters are recommended.
- **Scientific calculator.** A graphing calculator is also fine if you already have one, but not required for this class.
- **Microsoft Excel or Google Sheets.** Link for free Microsoft Office for Students: <https://products.office.com/en-US/student/office-in-education>.
- **Headphones or earbuds** if watching videos in public spaces.

## What is a flipped class?

In our class, that means the lecture and introductory learning takes place before class (as homework), and the harder problem-solving work (that is usually homework) takes place in class, where you have the guidance and help of classmates and the instructor. There will also be online homework problems to reinforce your learning.

## Why is our class flipped?

The image on the right shows the average amount people retain when learning through lecture, reading, etc. It's not surprising that most people retain more by discussing, doing and teaching others. This is what I want to spend most of our valuable class time on. We can use technology for the lecture, audio visual and demonstrations, which are also very important.

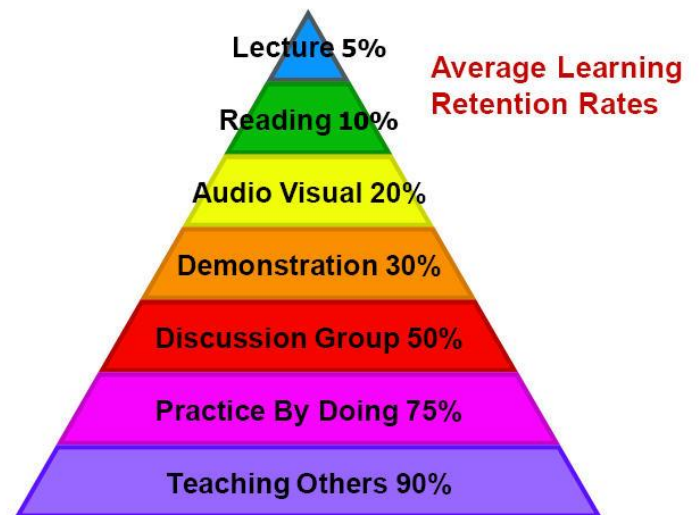
**Class Prep Assignment:** You will get a class prep assignment for every class. It will be a combination of watching videos, reading the book, researching online and reflection questions. This will be turned in at the beginning of class for credit. These activities are carefully designed to prepare you for the group activities in class, and the practice problems.

## 3 parts of each class:

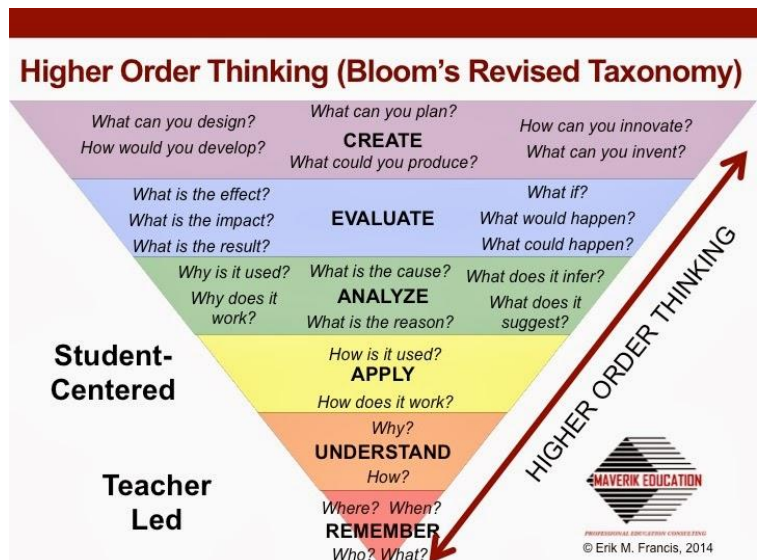
1. Warm-up
2. Group Activities
  - During this time, you can focus on group discussion, practice by doing and teaching others.
  - Record all your work on the activity pages for later reference.
3. Wrap-up: Sharing solutions, presenting, answering questions, look at the class prep assignment for the next class.

## Set yourself up for success:

- ✓ Arrive 5-10 minutes early to find your table and get settled in
- ✓ Be ready to start working with your group on time
- ✓ Be willing to work with all classmates and help everyone to be successful
- ✓ Be willing to try all the group roles
- ✓ Ask lots of questions – questions can be as valuable as the answers
- ✓ Don't be afraid to try something, even if it might not work. Trial and error is valuable!
- ✓ Record all your practice and creative work so you can review it later.



Source: National Training Laboratories, Bethel, Maine



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## Resources

**Math Help:** The Student Learning Center or Tutoring Center offers free math tutoring. It is located on the first floor of the library. The tutoring center is open M-Th, 10am - 6pm, and Fri, Sat, 10am - 2 pm. The schedule is updated at <http://www.pcc.edu/resources/tutoring/southeast>.

*If there is no struggle,  
there is no progress.  
~Frederick Douglass*

Tutoring is also available at other campuses. Online tutoring available free to all PCC students with extended and weekend hours: <https://www.etutoring.org/login.cfm?institutionid=229&returnPage>

**Computers for Check-out:** The library has laptops and calculators for students to check out. Ask at the library desk if any are available.

**Computer Labs:** Each PCC campus has its own computer resource center. As a PCC student, you have access to the computer, internet and printing (\$10 printing allowance per term) in the lab during their open hours. The Southeast Student Computing Center (SCC) is open 7 days a week and has over 65 computers for student use. The SCC is located on the first floor of the library, right next to the tutoring center. Here's a link for the hours: <http://www.pcc.edu/resources/computer-labs/southeast/>

## Grading

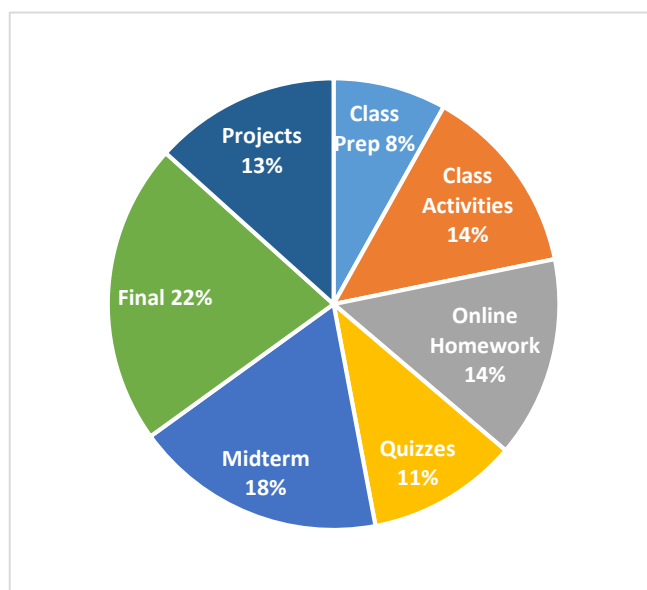
Course grades will be calculated as follows. You can check your grade in MyOpenMath at any time.

<u>Course Components</u>	<u>Points</u>
Class Prep Assignments (15 x 3 pts each)	45
Class Activities (19 x 4 pts each)	76
MyOpenMath Online Homework	80
4 Quizzes (20 each, lowest 1 dropped)	60
Individual Project	24
Team Project	50
Midterm Test	100
<u>Final Test*</u>	<u>120*</u>
Total	555

\*You must earn 65% or higher on the final to pass the course with an A, B or C.

The lowest quiz score will be dropped to allow for illness and emergencies. You also have 5 late passes inside MyOpenMath. These will extend the deadline for an online homework assignment. If it is past the late pass window, email Cara to use it.

You can check your scores and overall grade at any time in MyOpenMath. Check to make sure that your scores match what is in the gradebook.



**Make-up policy.** Class attendance and engagement is very important for your success. Communication is the most important thing if you are sick or have an emergency. You need to complete all work to be successful in the class. Read below for specific scenarios.

### **What do I do if...**

**I am late for class:** Please come in at any time! It is better to come for any part of class than not at all. If persistent lateness becomes an issue we will talk about it. Notify a classmate or the instructor if you are able but this is not required.

**I need to leave early:** Please let me know during class or by email.

**I will be absent:** Please let me know beforehand or afterward, as soon as you are able. Go to the notes website at [www.caraleemath.com/math-105](http://www.caraleemath.com/math-105) and view any resources from that day after they are posted (usually by the end of the class day). Complete the notes and activities and show them to me to make up the points.

**I will be absent and a Class Prep assignment is due:** You can send it to me a copy electronically or bring it to the next class.

**I missed MyOpenMath deadlines:** You have 5 late passes inside MyOpenMath, which will extend your deadline. If it's past the window, email Cara to use them. There are also extra credit review problems to make up lost points. If you have missed more than that please talk with me.

**I miss a quiz or a test:** Please let me know in advance, or as soon as possible in an emergency. Do not wait until the next class because I want to give the quiz or test back. Make an appointment with the testing center and let me know when your appointment is. Let the testing center know if you need to cancel or reschedule an appointment.

**Testing Center Info:** Student Commons 118, [testing.se@pcc.edu](mailto:testing.se@pcc.edu), 971-722-6277 or 6253. Bring a photo ID. <https://www.pcc.edu/resources/testing/locations.html>

**Class is cancelled due to weather, instructor illness or other circumstances:** Please check your email as soon as you are able. We will not get to make up class time, so I will send resources and instructions for you to complete the homework and stay on schedule.

**I feel lost, behind or frustrated with the class:** Please talk to me or email me. I have been there, too, and I am here to help you. It's better to get help as soon as possible. Don't spin your wheels. Sometimes people think they don't belong in college, but that's not true. Getting stuck and working through it is part of college. It just takes college experience to know that. You can also talk with classmates and use other campus resources. Use my office hours, the tutoring center and free online tutoring.

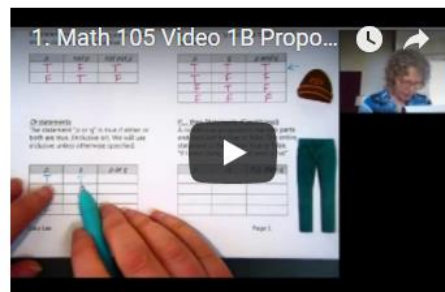
**Electronic Devices.** You are encouraged to have a device with internet access for class activities, but it is not required. Use it only for class activities, please. I will ask you to put it away if it is distracting you from classwork.

**Food and Drink.** You may have beverages and cold snacks. Make sure you leave the classroom neat for the next class. Please do not bring hot food or other items that may disturb or distract others.

## Graded Course Components

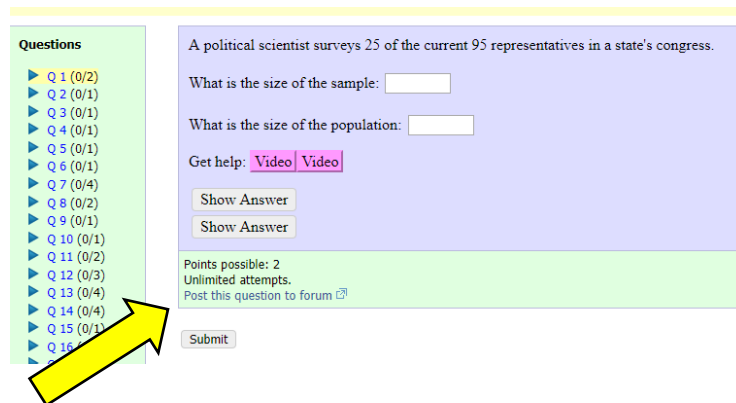
The suggested study guideline is 2 hours of homework/studying for each hour in class (10 hours/week for our class). This varies by student, so you may need more or less time.

**Class Prep Assignments:** A combination of videos, reading, research and personal reflections. Take notes on the worksheet and turn it in at the beginning of class. It will be graded and returned so you can use your notes for the class activities. All materials are on [www.caraleemath.com](http://www.caraleemath.com).



**Group Activities:** Most of your time in this class will be spent on group activities and problem solving. We will spend the entire class time working each day. It is important to find the right pace for you and the quality of your work is just as important as the quantity of work.

**MyOpenMath Online Homework:** Online homework assignments are due as shown on the course calendar and inside our course MyOpenMath shell. Do your best to complete the homework problems for each section covered in class before the next time class meets. The next day's material will often build upon the last. Write the steps down in your notebook or print a copy of the homework problems and write your work on that paper. Then you can use your work to study for the quizzes and tests.



If you get stuck or have a question, **post it to the forum** using the link at the bottom of the problem. You can respond to other students' questions and I will also respond. You can also get help in the tutoring center. You can ask a tutor to go to the computer with you for help.



**Quizzes:** There will be four individual quizzes to check your understanding of concepts, procedures, applications, and technology. The quizzes will start at the beginning of class and last about 30 minutes. The lowest quiz score will be dropped to allow for a bad day or emergency.

**Individual Project:** There will be one individual project with a presentation as indicated on the course calendar. More details will be given in class.

**Team Project:** There will be one team project with a presentation as indicated on the course calendar. This will be a quantitative analysis of a topic of your choice.

**Tests:** There will be a midterm and a cumulative final test. Test dates are shown on the course calendar. Completing class prep, class activities and practice problems is the best way to prepare for the tests. If testing anxiety or math anxiety are a concern for you, we have campus resources to help. Please talk with me early in the term.

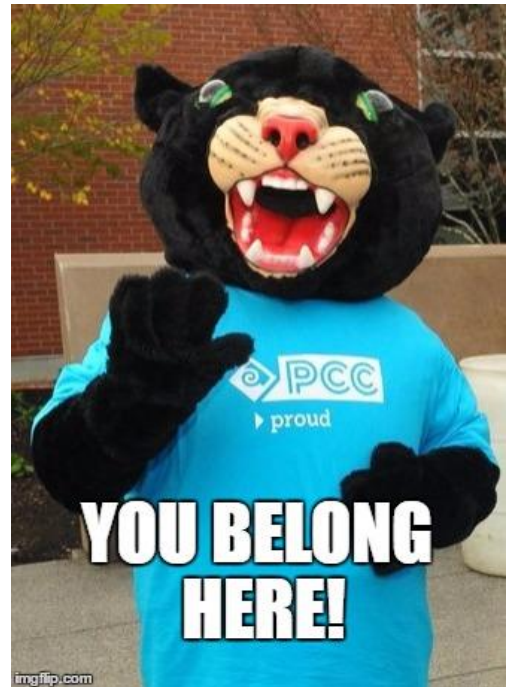
**Extra Credit Policy:** A few bonus points will be available during the term, up to about 3% of the course points. Extra credit is not a substitute for regular course work, which must be completed to succeed.



## Important College Policies and Information

**Title IX/Non-Discrimination:** Portland Community College is committed to creating and fostering a learning and working environment based on open communication and mutual respect. If you believe you have encountered sexual harassment, sexual misconduct, sexual assault, or discrimination based on race, color, religion, age, national origin, veteran status, sex, sexual orientation, gender identity, or disability please contact the Office of Equity and Inclusion at (971) 722-5840 or [equity.inclusion@pcc.edu](mailto:equity.inclusion@pcc.edu). You can read more and find a confidential reporting form at <http://www.pcc.edu/about/equity-inclusion/>.

You are also welcome to talk to me, just know that all instructors are mandatory reporters for Title IX and child abuse issues to the college. You may speak with designated confidential people such as counselors in SCOM and staff in the Women's Resource Center and the Queer Resource Center. I would be happy to walk with you to the place of your choice.



**Listening Intervention Team for Equity (LITE)** is a PCC resource for students, faculty, and staff who have experienced inequity or need guidance to navigate challenging dynamics at the college across cultures, races, ethnicities, gender identity or expression, sexual orientations, ability, faiths, and other aspects of identity. The LITE listener will offer compassion, help you process your experiences, share skill-building techniques and problem-solving strategies, and connect you with other existing support resources. **To talk to a LITE listener about experiences of inequity you have had at PCC,** go to <https://www.pcc.edu/about/equity-inclusion/listening-intervention-team-for-equity.html> then click on a coordinator or listener name for contact information.

**Sanctuary College:** PCC promotes the success, dignity, and worth of every individual by providing a safe environment where the examination of divergent ideas, experiences and systems of inequality adds depth to the learning experience. PCC strives to provide opportunity to all students and the appropriate level of support services to ensure the highest level of success. For more information and resources, see <https://www.pcc.edu/resources/undocumented-students/>.

**FERPA (Family Education Rights and Privacy Act):** You have the right to privacy of your personal information and educational records. I can only send email to your secure MyPCC email account so that I am communicating with you confidentially.

**Accessibility:** If you are working with Disability Services I will be happy to work with you on your accommodations, just let me know. If you believe you may need an accommodation you can start the process at [www.pcc.edu/resources/disability](http://www.pcc.edu/resources/disability).

**Inclement weather or emergencies:** Campus closures will be announced on TV, radio, [www.pcc.edu](http://www.pcc.edu), and the college switchboard, 971-722-6111.

**Audits:** Students must obtain instructor permission to audit a course by the deadline posted by the college.

**Registration and Dropping:** Students may attend this course only if registered. Students who are unable to attend must drop the course online or through the Registration Office. To have tuition charges removed, the course must be dropped by the student before the drop deadline posted on MyPCC and in the class schedule. Students who stop attending without dropping will receive a grade of F due to college policy.

**Drop and Withdrawal Deadlines:** [www.pcc.edu/registration/dropping](http://www.pcc.edu/registration/dropping)

**Pass/No Pass Grades:** Choose a grading option of letter grade (A-F), or Pass/No Pass (P/NP) via the computer registration system by the deadline posted by the college. Talk with your advisor as some degree/certification programs may not accept Pass/No pass grades.

**Incompletes:** Incompletes are rarely given, and allowed only if at least 75% of the work is already completed, with a current grade of "C" or above. A contract for completion must be signed by the student and instructor to receive an incomplete.

**Academic Integrity:** Being a successful student and living successfully requires you to develop a strong sense of personal and professional integrity. Completing your own academic work is a requirement of PCC. Students that engage in any form of academic dishonesty will receive a verbal and written warning. Further academic dishonesty can result in a zero for the test or assignment, an F for the class and/or charges for violation of the Student Conduct Code.

PCC Grading Guidelines:

<http://www.pcc.edu/resources/academic/standardspractices/AcademicStandardsandPractices-GradingGuidelines.html>

PCC Code of Student Conduct:

<http://www.pcc.edu/about/policy/student-rights/studentrights.pdf#academicintegrity>

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## **Southeast Campus Resources** <https://www.pcc.edu/resources/#student>

### Library

- Check out books, calculators, laptops, 1<sup>st</sup> floor desk
- Tutoring Center and Computer Lab, 1<sup>st</sup> Floor
- Reading and Writing Center, Library 218

### Tabor Hall

- Student Resource Information: ASPCC Hub
- Panther Food Pantry and Emergency Bus Tickets: Tabor 105
- Veteran's Resource Center: Tabor 120
- Career Exploration Center, Jobs and Internships: Tabor 147
- Women's Resource Center and Lifetracks Program: Tabor 148
- Queer Resource Center: Tabor 149
- Multicultural Center: Tabor 150
- Bike Rentals, Childcare Grants, Clubs, ASPCC: Tabor 152
- Public Safety and Lost and Found: Tabor 153

### Student Commons Building (SCOM)

- Disability Services: SCOM 112
- Advising: SCOM 116, Schedule at Information Desk
- Counseling, up to 8 free sessions: SCOM Info Desk or 971-722-6240

### PCC Links

- Free Online Tutoring: [www.pcc.edu/resources/tutoring/etutor/](http://www.pcc.edu/resources/tutoring/etutor/)
- Emergency Grants: <https://www.pcc.edu/enroll/paying-for-college/emergency-funds.html>
- Childcare Center: <https://www.pcc.edu/resources/child-care/>

## **Community Resources**

- Call to Safety, 503-235-5333, <https://calltosafety.org/resources/>,
- <https://www.auntbertha.com/>, <https://211.org>
- Columbia County Mental Health Line, 503-397-6161
- Washington County Crisis Line, 503-291-9111
- Yamhill County Crisis Line, 503-434-7523,
- Clackamas County 24-hour Crisis Line, 503-654-2288



# Math 105 Calendar

The sections listed will be worked on in class that day. Class prep items for those sections are due at the beginning of class.

	<b>Monday</b>	<b>Wednesday</b>	<i>MyOpenMath Due Sun by 11:59pm</i>
Sept 24, 26 Week 1	<i>Course Introduction</i> 1.4 (Chromebooks)	1.1-1.2 <i>Individual Project Handed Out</i>	<i>MyOpenMath orientation due 1.4, 1.1, 1.2</i>
Oct 1, 3 Week 2	<b>Quiz 1 (Sections 1.4, 1.1-1.2)</b> 1.3	2.1-2.2 (Chromebooks)	<i>1.3, 2.1, 2.2</i>
Oct 8, 10 Week 3	<b><i>Individual Project Due</i></b> 2.3-2.4 (Chromebooks) <i>Team Project Handed Out</i>	2.4-2.5 (Chromebooks)	<i>2.3, 2.4, 2.5</i>
Oct 15, 17 Week 4	<b>Quiz 2 (Sections 1.3, 2.1-2.4) (Computer Lab)</b> Library Research Session <i>Midterm review handed out</i>	3.1-3.2 (Chromebooks)	<i>3.1, 3.2</i>
Oct 22, 24 Week 5	<b>Midterm Chapters 1-3.1 (Computer Lab)</b>	<i>Inservice Day No Classes before 4pm College and tutoring open</i>	
Oct 29, 31 Week 6	3.3-3.4 (Chromebooks)	<b><i>Project Slides Due (Share with Cara)</i></b> 4.1	<i>3.3, 3.4, 4.1</i>
Nov 5, 7 Week 7	<b>Quiz 3 (Sections 3.2-3.4)</b> 4.2	4.3	<i>4.2, 4.3</i>
Nov 12, 14 Week 8	<i>Veteran's Day Holiday College Closed</i>	D.1	<i>D.1</i>
Nov 19, 21 Week 9	<b>Project due - Event in the Great Hall</b> Family and friends welcome (Visit other class from 2-3:50)	D.2	<i>D.2</i>
Nov 26, 28 Week 10	D.3	D.4	<i>D.3, D.4</i>
Dec 3, 5 Week 11	<b>Quiz 4 (D.1-D.3)</b> D.5 <i>Final review handed out</i>	Catch up and Review Class Celebration	<i>D.5</i>
Dec 10, 12 Finals Week	<b>Final Exam Cumulative (Computer Lab)</b>	No Class Have a great break!	

This schedule is tentative and subject to change due to class circumstances, weather, etc. Updates will be given in class and online.