

Course Syllabus

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ASTR120 Syllabus (Fall 2017)

- Lectures are held Tuesdays & Thursdays from 11 am to 12:15 pm in ATL 2400.
- Discussion is held Fridays from 1 pm to 1:50 pm.
 - Section 0101 meets in ATL 2400.
- The required textbook is Bennett et al., *The Cosmic Perspective* (8e), with *Modified MasteringAstronomy* (see below).
- The instructor is Prof. Cole Miller:
 - Office: PSC 1114.
 - Phone: 301-405-1037
 - Email: miller@astro.umd.edu (<mailto:miller@astro.umd.edu>)
 - Office hours: M 10 am, W 2 pm, and by appointment
- The teaching assistant (TA) for Section 0101 is **Elizabeth Tarantino**:
 - Office: PSC 1238
 - Email: ejtino@astro.umd.edu (<mailto:ejtino@astro.umd.edu>)
 - Office hours: Tue 1-2 and Fri 2-3
- The course grader is **Andrew Leisner**:
 - Office: ATL 1224
 - Email: aleisner@terpmail.umd.edu (<mailto:aleisner@terpmail.umd.edu>)
 - Office hour: Mon 3-4

Course Overview

This course presents a broad introduction to the science of astronomy and astrophysics. It is designed to be a two-semester sequence with the first semester (ASTR120) concentrating on our solar system and exoplanet systems, and the second semester (ASTR121) focusing on stars, galaxies, and the universe in general. The intent of this course is to give students a solid background in the primary physical concepts relevant to astronomy and astrophysics, and a broad exposure to the astronomical universe. **This course is for science majors or those with a strong interest in science.**

In addition to learning about our universe, a primary goal of this course is to develop scientific thinking and problem-solving abilities. Equations and numerical calculations will be a major component of this class. **A solid knowledge of algebra, geometry, trigonometry, and other aspects of precalculus is essential for this class.**

This course satisfies a 3-credit Physical Sciences CORE component and a Distributive Studies (Natural Sciences) General Education component. ASTR120 has a corequisite of MATH140, and no prerequisites. **The calculus co-requisite is new, and will allow us to go into greater mathematical and conceptual depth than was possible in previous versions of this course. This will give potential astronomy majors a strong boost in their preparation for later classes in the astronomy sequence.**

Course Structure and Expectations

This course normally consists of two lectures and one discussion period each week.

The lectures are on Tuesdays and Thursdays from 11 am to 12:15 pm in ATL 2400. The lectures serve to reinforce and supplement textbook content. The lectures also provide a crucial forum for general questions and class discussion. You are expected to attend all lectures, and you are responsible for all material in the posted lecture notes, apart from anything clearly indicated as optional or bonus material, even if we do not cover it in lecture.

You will be provided with a voting card for class participation that you must bring to each lecture. If you lose your voting card, you can make or print a new one (PDF available [here](#) ; there is also a [version suitable for mobile devices](#) ). This tool is meant to help me assess class mastery of learning goals, so it is important to be honest in your answers. You will not be judged on your answers, nor should you judge anyone else! However, it is important to come prepared each lecture by doing the assigned reading and online exercises.

There will also be group work in lecture. It is critical to insist on further discussion if you do not feel satisfied with a particular outcome during a group exercise—this is a learning environment, not a contest, and everyone should help each other! Note you can also communicate with other students via the tools available on ELMS for this course.

The discussion periods (Fridays from 1 pm to 1:50 pm, in the same room as the lectures) serve a variety of roles. Primarily they provide an opportunity to think about and apply the course material. These periods are also a forum for question-and-answer sessions, problem-solving practice, and group discussions of issues brought up in the lectures. You are expected to attend discussion, and 15% your grade will depend on your participation in these sessions. Liz Tarantino will lead the discussion sections, and she has authority over the section activities and grading. There is a separate syllabus for discussion.

Learning Goals

We hope you develop an appreciation for our place in the universe by taking this course. In addition, at the end of this course you should be able to....

- Convey the current state of knowledge regarding basic astronomy, our solar system, and extrasolar planets to a non-specialist.
- Solve complex problems requiring application of multiple astrophysical concepts, using precalculus and (toward the end of the semester) calculus.
- Collaborate with others to develop shared knowledge.
- Write scientifically and communicate your results effectively.

Office Hours and Email

You are welcome and encouraged to attend the office hours of myself, the TA, and grader, or to request an appointment by email. We will try to respond to email within 24 hours on weekdays, or on Monday morning for email sent over the weekend. If you email us the day that an assignment is due or on the day of an exam, you may not get a response right away, so plan accordingly. Try to remember to put "ASTR120" in the subject line of any email.

Notifications

This syllabus, the course schedule, homework assignments, and other course-related information can be accessed on ELMS/Canvas. IMPORTANT: class notifications will be broadcast through this online portal, so if you do not have access you must inform us as soon as possible. It is recommended that you check for notifications no less frequently than once per weekday. We will assume that you are receiving all messages, so check with us right away if you think you missed a notification.

Textbook

The required textbook for this course is Bennett's The Cosmic Perspective (8th Ed.), with Modified MasteringAstronomy. There are several purchasing options listed below. Note this is the full two-semester version of the textbook that covers both the solar system (ASTR120) and stars and galaxies (ASTR121). Those of you intending to major in Astronomy are encouraged to buy a hardcopy of the textbook as a reference for subsequent courses. Because we will be making use of the online component of the textbook, (Modified) MasteringAstronomy, you are encouraged to get the most recent (8th) edition of the textbook. For exams, you are responsible for all assigned readings in the textbook along with any extensions/supplements presented in class (lecture notes will be available electronically, but there will also be board work for which you are responsible). Some homework will be based on questions in the textbook, but the full problems will always be written out (because questions often change between editions). Also be aware that there are many helpful resources available for free on the Internet, but online information varies in accuracy and quality, so you are advised never to rely on a single source.

The [University Bookstore](http://umcp.bncollege.com/webapp/wcs/stores/servlet/BNCBHomePage?storeId=15551&catalogId=10001&langId=-1) (<http://umcp.bncollege.com/webapp/wcs/stores/servlet/BNCBHomePage?storeId=15551&catalogId=10001&langId=-1>) has stocked 3 purchase options for the textbook. To find them, access the [course information](https://ntst.umd.edu/soc/search?courseId=ASTR120§ionId=&termId=201608&_openSectionsOnly=on&creditCompare=&credits=&courseLevelFilter=ALL&instructor=&_facetoface=on&_blended=on&_on) (https://ntst.umd.edu/soc/search?courseId=ASTR120§ionId=&termId=201608&_openSectionsOnly=on&creditCompare=&credits=&courseLevelFilter=ALL&instructor=&_facetoface=on&_blended=on&_on) in the Schedule of Classes and click on the little icon of a stack of books in the lower right. The options are 1) bound hardcopy (ISBN 9780134528090); 2) looseleaf hardcopy (ISBN 9780134598666); and 3) eText only (ISBN 9780134567655). All 3 options come with an access code to Modified MasteringAstronomy. You can also purchase a textbook package directly from the [publisher](http://www.mypearsonstore.com/) (<http://www.mypearsonstore.com/>) using the ISBN codes above. Finally, if you purchased a used or standalone textbook elsewhere (e.g., from [amazon.com](http://www.amazon.com/) (<http://www.amazon.com/>)) or via links at [campusbooks4less.com](http://www.campusbooks4less.com) (<http://www.campusbooks4less.com/>), you can purchase access to Modified MasteringAstronomy separately.

If you do not have your textbook (and online access) by the start of classes, you can get temporary access to MasteringAstronomy during the registration process. When you are asked for your access code, look for a link at the bottom of the page to get temporary access. Here is a screenshot: [freeaccess.png](#) 

Reading and Online Assignments

You are required to complete any posted reading prior to lectures. Most lectures will have assigned reading. The lectures reinforce the reading; not all topics will be discussed in lecture, but you are nonetheless responsible for the material if it is in the reading. There will be graded in-class exercises, and occasional quizzes, based on the reading, so you should come prepared each class.

Muddiest Points

After you have done your reading for the upcoming class, you are encouraged to write down the point or points that were *least* clear to you in the "Muddiest Points" entry for that lecture. I will take these into account when I present the lecture, so this is your opportunity to customize the in-class presentations.

Grades

There will be two "midterms" and one final exam in this course. Overall grades will be determined by these exams, homework assignments, work done during discussion sections, and both in-class and out-of-class activities (the latter being mostly reading-related assignments, and the night lab), with the following

weighting:

Component	Weight
Midterm 1	15%
Midterm 2	15%
Final Exam	20%
Homework	30%
Discussion	15%
In-class	5%

Multiple graded items within each category above have the same weight (for example, if there are N homework assignments, each is worth $1/N$ of your total homework grade).

The following scale will be used to compute letter grades:

Grade	Range
A+	98% and above
A	93% to below 98%
A–	90% to below 93%
B+	87% to below 90%
B	83% to below 87%
B–	80% to below 83%
C+	77% to below 80%
C	73% to below 77%
C–	70% to below 73%
D+	67% to below 70%
D	63% to below 67%
D–	60% to below 63%
F	below 60%

For this course, letter grades correspond to the University's marking system, as follows:

- A+, A, A– denote excellent mastery of the subject and outstanding scholarship;
- B+, B, B– denote good mastery of the subject and good scholarship;
- C+, C, C– denote acceptable mastery of the subject;
- D+, D, D– denote borderline understanding of the subject, marginal performance, and it does not represent satisfactory progress toward a degree;
- F denotes failure to understand the subject and unsatisfactory performance.

As a hypothetical example, suppose you scored 120/150 on midterm 1, 130/150 on midterm 2, and 185/200 on the final, and earned 85% on homework, 90% in discussion, and 80% on in-class activities. Your final grade percentage would be $0.15(120/150) + 0.15(130/150) + 0.2(185/200) + 0.3(0.85) + 0.15(0.9) + 0.05(0.8) = 86.5\%$, or a B+ grade. Grades are always rounded up to the nearest integer.

There will be no curve on the final grades. There may need to be some adjustment to scores depending on the class average. However, any adjustment will be to lower the grade boundaries given above, never to raise them.

This class is too large to provide extra-credit opportunities for missed work, etc. Instead, there will be extra-credit portions of the homework and exams.

Mid-semester grades will be based solely on work completed and graded by the time the grades are submitted.

The Exams

There will be two midterm examinations, each given during class hours. Check the course schedule below for the dates. All midterms are held in the lecture room. These exams (and the final) are closed book with no notes, and you are required to bring a calculator (but are not allowed to program the calculator). A formula sheet will be provided for each exam. Each test will cover material presented in the reading and the lectures (excluding optional or bonus material clearly identified as such). The second midterm and the final are *cumulative*, so you are responsible for material covered by the earlier exam(s). If for whatever reason the

University is officially closed on the exam date, the exam shifts to the next available date.

According to the University examination schedule, the final exam for this course will be held on Wednesday, December 13, from 8:00 am to 10:00 am, in ATL 2400 (the normal lecture room).

Homework Assignments

Homework will be assigned most weeks and is to be turned in at the beginning of class on the designated day (usually Tuesday). It is expected that each homework assignment will take a few hours to complete.

You are required to submit your homeworks in PDF format to the ELMS site. These need to be typed in, not scanned handwriting; scans can be very difficult to read. Note that most editors (e.g., Word) have an option to output to PDF format, and can also be used to typeset equations; if equations are needed, I encourage you to write them out by hand first, to make it easier for you to enter in a PDF form. Equations are especially well-typeset in LaTeX, which is very useful to learn if you plan to have a career in astronomy.

To make it easier for Drew, the PDF file should be named "Lastname_Firstinitial_HWN.pdf". For example, if your name is Pat Smith and you are submitting homework 6, the PDF file you upload would be named Smith_P_HW6.pdf. Thanks for helping!

All homeworks are due at **11:00 am** of the due date (i.e., at the beginning of class). Homeworks turned in after class begins will be considered late and penalized 20%. After the end of class on the due date, no more homework will be accepted. Note that electronic submission means that you can turn in your assignment electronically before you leave home, or even if you are sick. If you experience a valid emergency, you must write me an email or leave me a voice mail message **before the due date** telling me why you will be late. In this case, you must secure a valid written excuse and arrange with me to have the homework turned in as soon as possible and, in any event, absolutely no later than the beginning of the next lecture.

You may work in groups to discuss problem-solving strategy, but **you must submit your own solution to each assignment**. Note that you must cite your source(s) on any essay-style questions, and this includes any websites you referenced. Note that all websites are fair game, but you must indicate the URL of any website that you used. Always show all of your work, and include units (e.g., meters, seconds, light years) as appropriate! You may not copy solutions from the internet. **You also may not copy wording from our textbook!**

Course Policies

By enrolling in this course you agree to abide by the campus [Course Related Policies \(http://www.ugst.umd.edu/courserelatedpolicies.html\)](http://www.ugst.umd.edu/courserelatedpolicies.html), which apply to this course. These include policies on student conduct, attendance, grades, and your rights. Specific considerations regarding some of these policies are below.

Missed Exams or Work

Attendance and in-class participation are a requirement for the lectures and discussion section of this course. As detailed in the relevant section of the [Course Related Policies \(http://www.ugst.umd.edu/courserelatedpolicies.html\)](http://www.ugst.umd.edu/courserelatedpolicies.html), certain absences may be excused if written documentation is provided. Waivers shall be made at our discretion on a case-by-case basis.

The major scheduled grading events in this course are the two midterms and the final exam on the dates shown in the schedule below. Except in the case of emergencies, an excused absence from an exam must be requested in writing during the schedule adjustment period. A medically necessitated absence during an exam requires documentation from a medical professional. Any other emergency necessitating missing an exam requires a prompt written explanation, and documentation. For an excused absence during an exam, a make-up exam will be given at a mutually agreed upon time. Make-up exams may be written or oral, at our discretion.

If you are unable to attend a lecture or discussion, you must notify your instructor or TA **in advance**, or as soon as possible in extenuating circumstances. Note that electronic copies of discussion activities will **not** be posted; you must pick up missed work from the TA in person during office hours.

Use of Electronic Devices

You may use tablets, and/or laptops in class (but NOT during exams) for taking notes or looking up something pertinent to the discussion. **If you use a tablet or laptop, you must sit in the far back row to avoid distracting your fellow students.** Otherwise you are expected to be focusing on the lecture or class work. All phones must be silenced. If you are expecting an urgent call, let one of us know before the lecture begins to minimize disruption. If use of an electronic device becomes disruptive (and this can include loud keyboard tapping!), you will be asked to be reseated or to leave the room altogether.

If you ask to leave the room during a quiz or exam, you must leave all electronic devices with the proctor.

Course Evaluation

Your participation in the evaluation of courses through [CourseEvalUM \(https://www.courseevalum.umd.edu/\)](https://www.courseevalum.umd.edu/) is a responsibility you hold as a student member of our academic community. Your feedback is confidential and important to the improvement of teaching and learning at the University as well as to the tenure and

promotion process. Please go directly to the website (<http://www.courseevalum.umd.edu/> (<https://www.courseevalum.umd.edu/>)) to complete your evaluations during the final two weeks of the semester. By completing all of your evaluations each semester, you will be able to access online the evaluation reports for the hundreds of courses for which 70% or more students submitted their evaluations.

The Honor Code

Our campus has a nationally recognized Code of Academic Integrity, administered by the Student Honor Council. This Code sets standards for academic integrity at Maryland for all undergraduate and graduate students. As a student you are responsible for upholding these standards for this course. It is very important for you to be aware of the consequences of cheating, fabrication, facilitation, and plagiarism. For more information on the Code of Academic Integrity or the Student Honor Council, please visit <http://www.studentconduct.umd.edu/> (<http://www.studentconduct.umd.edu/>).

To further exhibit your commitment to academic integrity, remember to sign the Honor Pledge on all examinations: "I pledge on my honor that I have not given or received any unauthorized assistance on this examination/assignment."

There are a couple of potential gray areas that arise naturally in this course. For homework and retests, you are permitted to work with other students in the class. In fact, you are encouraged to do so. This includes discussion of the problem and solution in a cooperative, mutually contributing fashion. However, you should write out your answer in your own words. **You should NOT, under any circumstances, simply copy someone else's homework and call that "working together."** That would be a serious violation of the Honor Code. **You should also NOT seek out or use "solution sets" from previous students or from Internet sources.** You may seek help on homework problems from your TA, your grader, or myself.

If you have questions regarding what is appropriate and what is not, please talk to me.

A Safe Learning Environment

The campus is meant to be a safe place to learn, free from harassment and intimidation of any kind. If you have experienced any form of harassment as a member of the university community, you should contact the [Office of Civil Rights & Sexual Misconduct](http://www.umd.edu/Sexual_Misconduct/) (http://www.umd.edu/Sexual_Misconduct/) on campus. Please be aware that faculty are required by law to report any instance of misconduct brought to their attention. For confidential assistance, contact [CARE](http://www.health.umd.edu/care/) (<http://www.health.umd.edu/care/>).

Students with Special Needs

Students with a documented disability who wish to discuss academic accommodations should contact us as soon as possible. Also be sure to contact the campus [Disability Support Service](http://www.counseling.umd.edu/DSS/) (<http://www.counseling.umd.edu/DSS/>) if you have not done so already. Students requiring accommodations for exams must provide the necessary documentation no later than 1 class period prior to the exam to ensure that the request can be met.

Financial Aid

If you are experiencing difficulty paying for tuition or textbooks, consider contacting the [Office of Student Financial Aid](http://www.financialaid.umd.edu/) (<http://www.financialaid.umd.edu/>). We recognize that the cost of the textbook for this course can be a burden, but one thing to keep in mind is that at least you get to use it for 2 semesters! We do feel the textbook and accompanying online supplement are essential to achieving the learning goals of this course.

Additional Help

If you are experiencing difficulties in keeping up with the academic demands of this course, you may wish to contact the campus [Learning Assistance Service](http://www.counseling.umd.edu/LAS/) (<http://www.counseling.umd.edu/LAS/>). Their academic coaches can help with time management, reading, math learning skills, note-taking, and exam preparation skills. All their services are free to UM students. If your writing skills could use improvement, check with the campus [Writing Center](http://www.english.umd.edu/writingcenter/) (<http://www.english.umd.edu/writingcenter/>). For other counseling needs, try the campus [Counseling Center](http://www.counseling.umd.edu/) (<http://www.counseling.umd.edu/>) and the [Mental Health Service](http://www.health.umd.edu/mentalhealth/) (<http://www.health.umd.edu/mentalhealth/>) in the Health Center.

Copyright Notice

Class lectures and other materials, including anything distributed during discussion, may not be reproduced for anything other than personal use without written permission from the instructor.

Course Summary:

Date

Details

Wed Aug 30, 2017	 Muddiest Points for August 31 (https://myelms.umd.edu/courses/1227103/assignments/4486754)	due by 11:59pm
Thu Aug 31, 2017	 Introduction to the Course (https://myelms.umd.edu/courses/1227103/assignments/4461163)	due by 11am
	 Reading for August 31 (https://myelms.umd.edu/courses/1227103/assignments/4486737)	due by 11am
Fri Sep 1, 2017	 Discussion 1 (https://myelms.umd.edu/courses/1227103/assignments/4496253)	due by 11:59pm
Mon Sep 4, 2017	 Muddiest Points for September 5 (https://myelms.umd.edu/courses/1227103/assignments/4486760)	due by 11:59pm
Tue Sep 5, 2017	 Homework 1 (https://myelms.umd.edu/courses/1227103/assignments/4471970)	due by 11am
	 Reading for September 5 (https://myelms.umd.edu/courses/1227103/assignments/4486752)	due by 11am
Wed Sep 6, 2017	 Muddiest Points for September 7 (https://myelms.umd.edu/courses/1227103/assignments/4490804)	due by 11:59pm
Thu Sep 7, 2017	 Reading for September 7 (https://myelms.umd.edu/courses/1227103/assignments/4490805)	due by 11am
Fri Sep 8, 2017	 Pre-Discussion Question 02 (https://myelms.umd.edu/courses/1227103/assignments/4495086)	due by 7am
	 Discussion 2 (https://myelms.umd.edu/courses/1227103/assignments/4500188)	due by 11:59pm
Mon Sep 11, 2017	 Muddiest points for September 12 (https://myelms.umd.edu/courses/1227103/assignments/4496264)	due by 11:59am
Tue Sep 12, 2017	 Homework 2 (https://myelms.umd.edu/courses/1227103/assignments/4485986)	due by 11am
	 Reading for September 12 (https://myelms.umd.edu/courses/1227103/assignments/4496263)	due by 11am
Wed Sep 13, 2017	 Muddiest Points for September 14 (https://myelms.umd.edu/courses/1227103/assignments/4498191)	due by 11:59pm
Thu Sep 14, 2017	 Lecture Quiz #1 (https://myelms.umd.edu/courses/1227103/assignments/4499761)	due by 11am
	 Reading for September 14 (https://myelms.umd.edu/courses/1227103/assignments/4498190)	due by 11am
Fri Sep 15, 2017	 Pre-Discussion Question 03 (https://myelms.umd.edu/courses/1227103/assignments/4499537)	due by 7am
	 Discussion 3 (https://myelms.umd.edu/courses/1227103/assignments/4503678)	due by 11:59pm
Mon Sep 18, 2017	 Muddiest Points for September 19 (https://myelms.umd.edu/courses/1227103/assignments/4500661)	due by 11:59pm
Tue Sep 19, 2017	 Homework 3 (https://myelms.umd.edu/courses/1227103/assignments/4485989)	due by 11am
	 Reading for September 19 (https://myelms.umd.edu/courses/1227103/assignments/4500662)	due by 11am
Wed Sep 20, 2017	 Muddiest Points for September 21 (https://myelms.umd.edu/courses/1227103/assignments/4501821)	due by 11:59pm
Thu Sep 21, 2017	 Reading for September 21 (https://myelms.umd.edu/courses/1227103/assignments/4501820)	due by 11am
Fri Sep 22, 2017	 Pre-Discussion Question 04 (https://myelms.umd.edu/courses/1227103/assignments/4503070)	due by 7am
	 Discussion 4 (https://myelms.umd.edu/courses/1227103/assignments/4506351)	due by 11:59pm
Mon Sep 25, 2017	 Muddiest Points for September 26 (https://myelms.umd.edu/courses/1227103/assignments/4504030)	due by 11:59pm
Tue Sep 26, 2017	 Homework 4 (https://myelms.umd.edu/courses/1227103/assignments/4501819)	due by 11am
	 Reading for September 26 (https://myelms.umd.edu/courses/1227103/assignments/4504028)	due by 11am
Wed Sep 27, 2017	 Muddiest Points for September 28 (https://myelms.umd.edu/courses/1227103/assignments/4505431)	due by 11:59pm
Thu Sep 28, 2017	 Reading for September 28 (https://myelms.umd.edu/courses/1227103/assignments/4505430)	due by 11am
Fri Sep 29, 2017	 Pre-Discussion Question 05 (https://myelms.umd.edu/courses/1227103/assignments/4505937)	due by 7am
	 Discussion 5 (https://myelms.umd.edu/courses/1227103/assignments/4509727)	due by 11:59pm
Mon Oct 2, 2017	 Muddiest Points for October 3 (https://myelms.umd.edu/courses/1227103/assignments/4506741)	due by 11:59pm

Tue Oct 3, 2017	 Homework 5 (https://myelms.umd.edu/courses/1227103/assignments/4504819)	due by 11am
	 Reading for October 3 (https://myelms.umd.edu/courses/1227103/assignments/4506740)	due by 11am
Wed Oct 4, 2017	 Muddiest Points for October 5 (https://myelms.umd.edu/courses/1227103/assignments/4508173)	due by 11:59pm
Thu Oct 5, 2017	 Reading for October 5 (https://myelms.umd.edu/courses/1227103/assignments/4508171)	due by 11am
Fri Oct 6, 2017	 Pre-Discussion Question 06 (https://myelms.umd.edu/courses/1227103/assignments/4508154)	due by 7am
	 Discussion 6 (https://myelms.umd.edu/courses/1227103/assignments/4509992)	due by 11:59pm
Tue Oct 10, 2017	 Midterm #1 (https://myelms.umd.edu/courses/1227103/assignments/4461229)	due by 11am
Wed Oct 11, 2017	 Muddiest Points for October 12 (https://myelms.umd.edu/courses/1227103/assignments/4512604)	due by 11:59pm
Thu Oct 12, 2017	 Reading for October 12 (https://myelms.umd.edu/courses/1227103/assignments/4512603)	due by 11am
Fri Oct 13, 2017	 Pre-Discussion Question 07 (https://myelms.umd.edu/courses/1227103/assignments/4512930)	due by 7am
	 Discussion 7 (https://myelms.umd.edu/courses/1227103/assignments/4516481)	due by 11:59pm
Mon Oct 16, 2017	 Muddiest Points for October 17 (https://myelms.umd.edu/courses/1227103/assignments/4514612)	due by 11:59am
Tue Oct 17, 2017	 Homework 6 (https://myelms.umd.edu/courses/1227103/assignments/4512458)	due by 11am
	 Reading for October 17 (https://myelms.umd.edu/courses/1227103/assignments/4514611)	due by 11am
Wed Oct 18, 2017	 Muddiest Points for October 19 (https://myelms.umd.edu/courses/1227103/assignments/4514615)	due by 11:59pm
Thu Oct 19, 2017	 Reading for October 19 (https://myelms.umd.edu/courses/1227103/assignments/4514614)	due by 11am
Fri Oct 20, 2017	 Pre-Discussion Question 08 (https://myelms.umd.edu/courses/1227103/assignments/4516157)	due by 7am
	 Discussion 8 (https://myelms.umd.edu/courses/1227103/assignments/4519313)	due by 11:59pm
Mon Oct 23, 2017	 Muddiest Points for October 24 (https://myelms.umd.edu/courses/1227103/assignments/4516317)	due by 11:59am
Tue Oct 24, 2017	 Homework 7 (https://myelms.umd.edu/courses/1227103/assignments/4514616)	due by 11am
	 Reading for October 24 (https://myelms.umd.edu/courses/1227103/assignments/4516316)	due by 11am
Wed Oct 25, 2017	 Muddiest Points for October 26 (https://myelms.umd.edu/courses/1227103/assignments/4517901)	due by 11:59pm
Thu Oct 26, 2017	 Reading for October 26 (https://myelms.umd.edu/courses/1227103/assignments/4517902)	due by 11am
Fri Oct 27, 2017	 Pre-Discussion Question 09 (https://myelms.umd.edu/courses/1227103/assignments/4519036)	due by 7am
	 Discussion 9 (https://myelms.umd.edu/courses/1227103/assignments/4522500)	due by 11:59pm
Mon Oct 30, 2017	 Muddiest Points for October 31 (https://myelms.umd.edu/courses/1227103/assignments/4519318)	due by 11:59pm
Tue Oct 31, 2017	 Homework 8 (https://myelms.umd.edu/courses/1227103/assignments/4517900)	due by 11am
	 Reading for October 31 (https://myelms.umd.edu/courses/1227103/assignments/4519317)	due by 11am
Wed Nov 1, 2017	 Muddiest Points for November 2 (https://myelms.umd.edu/courses/1227103/assignments/4520937)	due by 11:59am
Thu Nov 2, 2017	 Reading for November 2 (https://myelms.umd.edu/courses/1227103/assignments/4520936)	due by 11am
Fri Nov 3, 2017	 Pre-Discussion Question 10 (https://myelms.umd.edu/courses/1227103/assignments/4521831)	due by 7am
	 Discussion 10 (https://myelms.umd.edu/courses/1227103/assignments/4522743)	due by 11:59pm
Tue Nov 7, 2017	 Midterm #2 (https://myelms.umd.edu/courses/1227103/assignments/4461230)	due by 11am
Wed Nov 8, 2017	 Muddiest Points for November 9 (https://myelms.umd.edu/courses/1227103/assignments/4524519)	due by 11:59pm

Thu Nov 9, 2017	 Reading for November 9 (https://myelms.umd.edu/courses/1227103/assignments/4525554)	due by 11am
Fri Nov 10, 2017	 Discussion 11 (https://myelms.umd.edu/courses/1227103/assignments/4528667)	due by 11:59pm
	 Pre-Discussion Question 11 (https://myelms.umd.edu/courses/1227103/assignments/4525513)	due by 11:59pm
Mon Nov 13, 2017	 Muddiest Points for November 14 (https://myelms.umd.edu/courses/1227103/assignments/4525556)	due by 11:59pm
Tue Nov 14, 2017	 Homework 9 (https://myelms.umd.edu/courses/1227103/assignments/4524518)	due by 11am
	 Reading for November 14 (https://myelms.umd.edu/courses/1227103/assignments/4525555)	due by 11am
Wed Nov 15, 2017	 Muddiest Points for November 16 (https://myelms.umd.edu/courses/1227103/assignments/4527066)	due by 11:59pm
Thu Nov 16, 2017	 Reading for November 16 (https://myelms.umd.edu/courses/1227103/assignments/4527065)	due by 11am
Fri Nov 17, 2017	 Pre-Discussion Question 12 (https://myelms.umd.edu/courses/1227103/assignments/4528596)	due by 7am
	 Discussion 12 (https://myelms.umd.edu/courses/1227103/assignments/4533342)	due by 11:59pm
Mon Nov 20, 2017	 Muddiest Points for November 21 (https://myelms.umd.edu/courses/1227103/assignments/4529666)	due by 11:59pm
Tue Nov 21, 2017	 Homework 10 (https://myelms.umd.edu/courses/1227103/assignments/4527062)	due by 11am
	 Reading for November 21 (https://myelms.umd.edu/courses/1227103/assignments/4529664)	due by 11am
Mon Nov 27, 2017	 Muddiest Points for November 28 (https://myelms.umd.edu/courses/1227103/assignments/4529667)	due by 11:59pm
Tue Nov 28, 2017	 Reading for November 28 (https://myelms.umd.edu/courses/1227103/assignments/4529665)	due by 11am
Wed Nov 29, 2017	 Muddiest Points for November 30 (https://myelms.umd.edu/courses/1227103/assignments/4532086)	due by 11:59pm
Thu Nov 30, 2017	 Homework 11 (https://myelms.umd.edu/courses/1227103/assignments/4529663)	due by 11am
	 Reading for November 30 (https://myelms.umd.edu/courses/1227103/assignments/4532083)	due by 11am
Fri Dec 1, 2017	 Pre-Discussion Question 13 (https://myelms.umd.edu/courses/1227103/assignments/4532666)	due by 7am
	 Discussion 13 (https://myelms.umd.edu/courses/1227103/assignments/4536854)	due by 11:59pm
Mon Dec 4, 2017	 Muddiest Points for December 5 (https://myelms.umd.edu/courses/1227103/assignments/4533272)	due by 11:59am
Tue Dec 5, 2017	 Reading for December 5 (https://myelms.umd.edu/courses/1227103/assignments/4533270)	due by 11am
Wed Dec 6, 2017	 Muddiest Points for December 7 (https://myelms.umd.edu/courses/1227103/assignments/4535300)	due by 11:59pm
Thu Dec 7, 2017	 Homework 12 (https://myelms.umd.edu/courses/1227103/assignments/4532945)	due by 11am
	 Reading for December 7 (https://myelms.umd.edu/courses/1227103/assignments/4535302)	due by 11am
Fri Dec 8, 2017	 Pre-Discussion Question 14 (https://myelms.umd.edu/courses/1227103/assignments/4535806)	due by 10am
	 Discussion 14 (https://myelms.umd.edu/courses/1227103/assignments/4538916)	due by 11:59pm
Wed Dec 13, 2017	 Final Exam (https://myelms.umd.edu/courses/1227103/assignments/4461143)	due by 8am
	 Lecture Quiz #10 (https://myelms.umd.edu/courses/1227103/assignments/4536141)	
	 Lecture Quiz #2 (https://myelms.umd.edu/courses/1227103/assignments/4502244)	
	 Lecture Quiz #3 (https://myelms.umd.edu/courses/1227103/assignments/4506160)	
	 Lecture Quiz #4 (https://myelms.umd.edu/courses/1227103/assignments/4508174)	
	 Lecture Quiz #5 (https://myelms.umd.edu/courses/1227103/assignments/4516173)	
	 Lecture Quiz #6 (https://myelms.umd.edu/courses/1227103/assignments/4519031)	
 Lecture Quiz #7 (https://myelms.umd.edu/courses/1227103/assignments/4522117)		

 [Lecture Quiz #8 \(https://myelms.umd.edu/courses/1227103/assignments/4528356\)](https://myelms.umd.edu/courses/1227103/assignments/4528356)

 [Lecture Quiz #9 \(https://myelms.umd.edu/courses/1227103/assignments/4532781\)](https://myelms.umd.edu/courses/1227103/assignments/4532781)
