MATH 115–02, Calculus I with Analytic Geometry Fall 2022

Instructor: Dr. Willis, Professor of Mathematics

Office: Discovery Hall (DSCH), room 368

Telephone: 308 865-8868

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Office Hours: Remote only: WF 10:00 – 11:00; TR 9:30 – 11:00; Non-remote Monday 10:00 – 11:00²; or by

appointment, but remote help is preferred

Introduction

Teaching during a pandemic isn't something that I have practiced, so this term is an experiment for me. But we are mathematicians, so we are problem solvers. All of us will need to learn new skills and to find solutions to problems as they arise. I doubt that we can plan for everything that might happen, but we can plan to be flexible and to be creative problem solvers. At anytime in the term, if you have a suggestion or a concern, please let me know–I will consider your suggestion.

If I need to quarantine or if I am ill, I will continue teaching our course online for as long as I am able. If you are unable to attend class, uncomfortable attending class, or need to quarantine, you will be able to continue with the class. Having said that, attending class in person, taking notes, following along, and participating in class discussions is the most effective way to learn mathematics. If you choose to not attend class, learning might be a challenge and you might need to require new skills (self-discipline and time management, for example), but there is *no specific grade penalty* for not attending or not participating in class. Of course, if you choose to not attend class and you do not make a good effort to keep up with the online work (either live classes or recorded), do not expect me to invest much time in helping you dig out of the hole you have dug.

As of August 8, 2022, plans are still evolving to equip classrooms with video capabilities. How well this will work for a *mathematics* class is unknown. My guess is that it will work a great deal better for a class in, for example, American Literature, than calculus. Generally, the recorded mathematics classes that I have viewed (MIT OpenCourseWare, for example) have a camera operator. I doubt that we will have that luxury, making the remote classes harder to follow than the face-to-face classes.

This class might convert to remote learning for any number of reasons, including an administrative decision (university-wide, college, or departmental), low-attendance due to large numbers of class members who need to quarantine, or my own decision based on the safety of the class. The decision to convert to remote learning might be announced long before it happens, or it might happen without much warning. It's prudent, I think, for all class members to be prepared for this class, and possibly all classes, to be converted to remote learning.

Regardless of how this class is taught, either face-to-face or remotely, our assessments (in-class work, online homework, semester exams, and final exam) will be the same. Also, the grading scale for assigning course grades will also be the same regardless of how this class is delivered. And the course material will also be the same if the class switches to remote learning for part of the term. Given that the *assessments, topics*, and *grading scales* will be the same regardless of delivery, our class will have *one syllabus*, not multiple documents that attempt to cover all possibilities. Having a unified syllabus will, I think, help promote clarity.

¹To contact me by email, send your message to willisb@unk.edu, use your Loper mail account, and include a descriptive subject line. If you reply to a message that I have sent to the entire class, it might go to my junk folder.

²To meet with me face-to-face on Monday, you must first phone me and we will decide on an on-campus location for meeting. My office is too small to allow for meeting students and to maintain a safe distance.

Finally, please live your lives for the next sixteen weeks responsibly. When you act recklessly with your health, you are jeopardizing the health of your classmates, friends, and family. The scientific evidence is that we all can help to squash the pandemic by acting responsibly to protect our own health and the health of others. It would be, I think, a good semester to build or strengthen hobbies—I might suggest reading, creative writing, or learning to play the guitar in the dorm stairwell at 2 a.m. And of course, it will be a good semester to put an extra effort into keeping up with your classwork, especially with calculus.

Course Resources

- 1. Our textbook is *University Calculus: Early Transcendentals, Single Variable*, 4th Edition, by Joel R. Hass, Christopher E Heil, Przemyslaw Bogacki, Maurice D. Weir, and George B. Thomas, Jr.
- 2. We will be using the online homework system Pearson MyLab Math. Your online homework grade is a substantial part of your course grade. You *must* sign up for the homework system in the first week of the term. If you purchase a used book without an access code, you will may need to purchase access to the online homework system separately,
- 3. A computer or tablet (not a phone) with an Internet connection to use the online homework.
- 4. If we need to convert this class to remote learning, your computer will need to have a microphone and a camera.
- 5. To complete in class work while working remotely, you will need to print files.
- 6. For exams, you will need a scientific calculator (includes trigonometric, logarithmic, and exponential functions). You do not need anything more fancy than that. You *may* use a graphing calculator, but it will not be of any great advantage.
- 7. You will need a (functioning) camera on your phone or some other device for scanning a document and turning it electronically. Regardless of course delivery (face-to-face or remote), our class will mostly function without paper.
- 8. The UNK Learning Commons³ provides peer tutoring for this class. At least initially, the Learning Commons will be doing its work remotely. Please take advantage of this learning opportunity.
- 9. Pencils, erasers, notebook for note taking. Colored pens or pencils are nice for note taking.
- $10. \ \ Other\ resources\ include\ Desmos^4\ and\ Wolfram\ Alpha^5.\ You\ can\ use\ both\ of\ these\ services\ for\ no\ cost.$

Prerequisite

The prerequisite for this class is either a passing grade (D- or higher) in MATH 103 or a Math ACT score of 23 or above. It is *suggested* (but not required) that if you qualify by your Math ACT score that you have successfully completed four years of high school math, including two years of algebra, one year of geometry, and a senior level pre-calculus class.

Course Objectives

Students will learn the concepts of continuity, the limit, the derivative, and the indefinite and definite integrals. Students will apply these concepts to problems involving the sciences and to applied problems of mathematics including geometry and the extreme values of functions.

³https://www.unk.edu/offices/learning_commons/

⁴https://www.desmos.com/

⁵https://www.wolframalpha.com/

Class time

For face-to-face classes, we will meet for 50 minutes Monday through Friday. Classes on Tuesday and Thursday will be 50, not 75 minutes in length. Should this class convert to remote learning, we will meet asynchronously (meaning you will be able to view the class materials at anytime.)

During face-to-face classes or during remote, but synchronous classes, if you all have a relevant question, please ask. Wearing a mask will, I think, interfere with some of the visual clues I get in class, so maybe I won't always pick up a signal that you have a question—so please be bold and speak up if you have a question.

Office Hours

My office hours, except for Monday morning, will be *remote only*. To meet with me face-to-face on Monday, you must first phone me and we will decide on an on-campus location for meeting. My office is too small to allow for meeting students and to maintain a safe distance.

I will make a substantial effort to help you remotely during non-office hours, including weekends. But my bedtime is early so I will not be usually be available for assistance after 7:00 p.m. each day. Unfortunately, I know that many of you don't even start to think about homework until after 9:00 p.m. If that's the case for you, I will not be able to give you immediate help.

Exams

All exams, including the final exam, will be done remotely using My Math Lab. *You will need to take each exam, including the final exam, during the regularly scheduled exam period.* This is a five credit class, so we will have two exams during final exam week.⁶ The first exam, given on Monday of final exam week, will cover material that follows Exam 3. The second exam, given on Tuesday of final exam week, will cover material from \$1.1 – \$6.3.

I will provide you with a review for each exam. Of course, if we are ahead or behind the course calendar, the exam topics will be adjusted the only cover what we have done in class. The review will clarify the sections covered. The review for the final exam will be the union of all previous reviews.

Online homework

Starting in week two, online homework will be due *every* Saturday at 11:59 p.m. local time. You may either complete working on a problem set immediately after it is covered in class, or you may work on an entire week of work on Saturday night. If you choose to work mostly on Saturday, I might not respond for requests for assistance in time to meet the deadline. If you are a student athlete or attending a university sponsored event and you are traveling, your assignment will still be due on Saturday at 11:59 p.m. local time. If you are too ill to complete your work on time, please communicate with me as soon as possible.

In class work

Every Friday, and possibly more often, we'll have in class work. This work will be done on paper. If you are not attending class, you will need to download the worksheet from Canvas, print it, complete it, photograph it, and turn it in to Canvas. If you attend the face-to-face class, you will still need to photograph your work and turn it in to Canvas. All students will have until 11:59 p.m. local time on the day of in class work to turn the work into Canvas. Traditionally, in class work is done as pair work, but due to the need for distancing, the in class work will be mostly individual, but I will help you with questions.

⁶UNK's final exam policy requires that five credit classes meet twice during final exam week; see https://www.unk.edu/offices/registrar/academic_policies_handbook/Final_Exam_Schedules.php

Grading

Your course grade will be based on *online homework assignments* (worth at least 200 points), *in-class work* (worth at least 150 points), four exams, and a final exam (scaled to 150 points). Exams 1,2, and 3 will be worth 100 points each, but Exam 4, given during final exam week, is worth 50 points.

Your course grade will be based on the percent of the available points. Course letter grades will be based on a ten point scale. Except for the grade of A+, grades in the lower third of each decade will be a minus grade and grades in the upper third of each decade will be a plus grade. For example, the B- range is [80,83+1/3), and the B+ range is [86+2/3,90). To earn a grade of A+ requires a course average that exceeds 98%.

Policies

- 1. Since all exams, including the final exam are online, generally only severe illness will be a valid reason to take the exam at a different time. To qualify to make up an exam, you must contact me as soon as you know that you will be too sick to take an exam.
- 2. The final examination will be *comprehensive* and it will be given during the time scheduled by the University. Except for *extraordinary circumstances* you must take the exam at this time. UNK's attendance policy does *not* include "family emergency" as a valid reason for making up missed graded work.
- 3. Generally, online homework will be due at 11:5 p.m. local time each Saturday. If you have an extended illness that keeps you from completing the homework, contact me immediately.
- 4. The course calendar may change. Changes to the schedule can be made in class, but not noted anywhere else. It is your responsibility to learn of changes to the schedule.
- 5. Phones and other such devices must be turned off and *out of sight* during lecture portions of classes.
- 6. If you have questions about how your work has been graded, *immediately* ask me for an explanation.
- 7. This class has no option for extra credit.

Learning Commons

UNK provides assistance to help you improve your academic performance. The Learning Commons, located on the Second floor of the Calvin T. Ryan Library, centralizes several academic services in one convenient place: Language Learning Support, Library Services, Subject Tutoring, Success Coaching, Supplemental Instruction, and the Writing Center are all offered in a casual, collaborative environment. Most services are facilitated by fellow UNK students, which means you will be able to learn and practice more effective study skills, problem-solving techniques, and writing strategies with people who have been there and done that! Statistics indicate that students who come to the LC regularly are more likely to succeed in their classes—so come early and come often. For more information about schedules and services, contact the Learning Commons at 865-8905 or visit them online at www.unk.edu/lc.

Academic Honesty Policy

Using unauthorized materials while taking a exam will earn you a failing grade on that assessment. For online homework and in-class work, you may seek help from the Learning Commons, the textbook or other documents, from me, or from classmates. Other forms of academic dishonesty include:⁷

1. Cheating.

⁷For a definitions and explanation, see https://catalog.unk.edu/undergraduate/academics/academic-regulations/academic-integrity-policy/

- 2. Fabrication and falsification.
- 3. Plagiarism.
- 4. Abuse of academic materials and/or equipment.
- 5. Complicity in academic dishonesty: Helping or attempting to help another student to commit an act of academic dishonesty.
- 6. Falsifying grade reports: Changing or destroying grades, scores or markings on an examination or in an instructor's records.
- 7. Misrepresentation to avoid academic work.

For UNK's procedure for handling possible infractions, see https://www.unk.edu/offices/reslife/_documents/academic-integrity-policy.pdf.

General Studies and Learning Outcomes⁸

For students under a catalog years of 2019–2020 or before, earning a passing grade in MATH 115 effectively excuses you from the general studies mathematics requirement, and the five credits for this class count toward general studies credits. For students under the catalog year 2020–2021, it is not known (as of August 8, 2022) if MATH 115 will fulfill your general studies LOPER 4 (Mathematics, statistics, & quantitative reasoning) requirement. .9 The purpose of General Studies for pre-2020-2012 is:

The UNK General Studies program helps students acquire knowledge and abilities to: understand the world, make connections across disciplines, and contribute to the solution of contemporary problems.

And the purpose of the current GS program in LOPER 4 is to

"develop core academic skills in collecting and using information, communications in speech and writing, and quantitative reasoning."

Our mathematics specifc learning outcomes are:

- 1. Apply mathematical logic to solve equations.
- 2. Describe problems using mathematical language.
- 3. Solve problems given in mathematical language using mathematical or statistical tools.
- 4. Interpret numerical data or graphical information using mathematical concepts and methods.
- 5. Construct logical arguments using mathematical language and concepts.
- 6. Use mathematical software effectively.

⁸These are UNK's general studies outcomes for mathematics.

⁹Suggestion: If your catalog year is 2020-2021, don't loose sleep over this issue. Almost surely, this issue will be resolved in a way that is fair and reasonable. I'm including these learning outcomes because (a) they are valid (b) including them will help strengthen the case that this course satisfies the required learning outcomes for a General Studies mathematics class.

Covid-19 Policies¹⁰

The following are the responsibilities of the course instructor (so "I" means "me," not "you."):

- 1. What do I do if a student emails me and says they have COVID-19 symptoms?
 - (a) Instruct the student to contact the Public Health Center (PHC): 308-865-8279 or unkhealth@unk.edu
 - (b) Advise the student to not return to class until given instructions by the PHC
 - (c) Encourage the student to communicate with you on their absences
- 2. What do I do if a student informs me that they have tested positive for COVID-19?
 - (a) Instruct the student to contact the Public Health Center immediately at 308-865-8279 or unkhealth@unk.edu
 - (b) Inform the student that they will not be able to return to class without a clearance form from the Public Health Center. The clearance form must be received by faculty/staff prior to returning
 - (c) Faculty/Staff should contact the Public Health Center for guidance on possible quarantining and whether it will be necessary. A seating chart will be vital to identify people who may have been in close contact with the positive case.
 - (d) Ensure the privacy of the student who tested positive. Classmates are not privy to this person's medical information.
- 3. What can I expect from a student returning from isolation after testing positive for COVID-19?
 - (a) A medical clearance form from the Public Health Center via email. This form will tell you the date the student is permitted to return.
- 4. What if a student informs me that they must be in quarantine for 14 days due to exposure?
 - (a) Instruct the student to contact the Public Health Center, which will track quarantine days and give a return date.
 - (b) The student must have a medical clearance from the Public Health Center to return to class.
 - (c) Give the student options for alternative attendance such as attending class synchronously or doing work through Canvas.
- 5. Should I send an announcement that a student in class tested positive?
 - (a) An informational announcement should inform the class that there has been a possible exposure, and that the Public Health Center will contact anyone identified as a close contact with guidance on symptom monitoring.
 - (b) UNK Communications, in collaboration with the Public Health Center, will handle campus-wide and community notifications when necessary.
- 6. What if a student wants to know the name of the student who tested positive?
 - (a) Disclosing a student's name is a HIPAA violation, therefore you are not permitted to announce the student's name. If a student is concerned that they were exposed, direct them to the Public Health Center.
- 7. What should I do if I develop symptoms?

¹⁰Verbatim from UNK covid Task Force

- (a) Contact the Public Health Center immediately for guidance on next steps: 308-865-8279 or un-khealth@unk.edu
- 8. Can I get tested at the Public Health Center on Campus and is there a charge?
 - (a) Yes. The Public Health Center provides COVID-19 testing.
 - (b) There is no charge except under certain circumstances. Staff can review with you your options for testing.
- 9. What if a student tells me they tested positive for Coronavirus and need accommodations?
 - (a) Refer the student to Disability Services to register for temporary accommodations: 308-865-8214, unkdso@unk.edu
 - (b) Disability Services will send faculty a letter to notify instructors of approved accommodations.
- 10. What do I do if I test positive for COVID-19? How should I tell my class?
 - (a) There is no expectation that you disclose personal health information to your class. If you test positive, contact the Public Health Center. They will contact your students without giving your name.
 - (b) Students will only need to know how to proceed in your absence.
 - (c) You must be cleared by the Public Health Center before returning to campus.
- 11. What if a student refuses to wear a mask?
 - (a) Remind the student of the COVID-19 campus policy about wearing a mask. If a student continues to refuse, you can ask them to leave the building. If this matter persists, refer the student to the CARE Team.

The university community is deeply concerned for the well-being of its students, faculty, and staff. Keeping each other as safe as possible will require commitment from each of us; failure to do so will literally place lives in danger. The full policy relating to mitigation of the spread of infectious diseases can be found at https://www.unk.edu/coronavirus/Policies that apply to all courses (online, remote, blended, or face-to-face) include:

- 1. Students shall monitor their health daily.
- 2. No student shall attend classes in person while sick.
- 3. Those who have had contact with positive-tested individuals or show COVID-19 related symptoms must have clearance from the Public Health Center prior to returning to face-to-face classes.
- 4. There will be no penalties for missing classes for COVID-19 related absences. Students will still be responsible for course content through alternative attendance or other options arranged with the instructor.

Additional policies specific to face-to-face instruction include the following:

- 1. During Phases I and II, all students are required to wear masks that cover the nose and mouth at all times during class and at any time, inside or outside, where physical distancing of at least 6' is not possible. Instructors shall maintain 16' of distance from students while lecturing but may be closer, if masked.
- 2. Instructors have the authority to direct students who refuse to wear masks to leave the classroom. Students who have medical issues that make masks inadvisable should contact Disability Services for Students at 308-865-8214 to request an exemption.

- 3. Students shall not arrive for class more than 5 minutes before the scheduled start time for the course. Instructors shall dismiss students promptly at the end time and all shall leave the classroom promptly. Students who have questions should use office hours rather than before/after class times.
- 4. Instructors and students should clean their desks prior to class. Cleaning materials will be provided.
- 5. Additional requirements for Phase III, for specialty courses such as labs or performing arts, or for experiential learning are detailed below.

Questions regarding COVID-19 should be directed to the Public Health Center unkhealth@unk.edu or 308-865-8254. Questions regarding the COVID-19 academic policy should be directed to Sr. Vice Chancellor Bicak at bicakc@unk.edu. Questions regarding department specific requirements should be directed to Dr. Katherine Kime, Office: DSCH 337, Phone: (308) 865-8532, Email: kimek@unk.edu.

The above directions must be followed by everyone for the health and safety of our University. Students who do not comply may face disciplinary action from the university. Violations of any University or Campus Policy is a violation of the Student Code of Conduct.

Students with Disabilities It is the policy of the University of Nebraska at Kearney to provide flexible and individualized reasonable accommodation to students with documented disabilities. To receive accommodation services for a disability, students must be registered with the UNK Disabilities Services for Students (DSS) office, 175 Memorial Student Affairs Building, 308-865-8214 or by email unkdso@unk.edu.

UNK Statement of Diversity & Inclusion UNK stands in solidarity and unity with our students of color, our Latinx and international students, our LGBTQIA+ students and students from other marginalized groups in opposition to racism and prejudice in any form, wherever it may exist. It is the job of institutions of higher education, indeed their duty, to provide a haven for the safe and meaningful exchange of ideas and to support peaceful disagreement and discussion. In our classes, we strive to maintain a positive learning environment based upon open communication and mutual respect. UNK does not discriminate on the basis of race, color, national origin, age, religion, sex, gender, sexual orientation, disability or political affiliation. Respect for the diversity of our backgrounds and varied life experiences is essential to learning from our similarities as well as our differences. The following link provides resources and other information regarding D&I: https://www.unk.edu/about/equity-access-diversity.php

Students Who are Pregnant It is the policy of the University of Nebraska at Kearney to provide flexible and individualized reasonable accommodation to students who are pregnant. To receive accommodation services due to pregnancy, students must contact Cindy Ference in Student Health, 308-865-8219. The following link provides information for students and faculty regarding pregnancy rights. http://www.nwlc.org/resource/pregnant-and-parenting-students-rights-faqs-college-and-graduate-students

Reporting Student Sexual Harassment, Sexual Violence or Sexual Assault Reporting allegations of rape, domestic violence, dating violence, sexual assault, sexual harassment, and stalking enables the University to promptly provide support to the impacted student(s), and to take appropriate action to prevent a recurrence of such sexual misconduct and protect the campus community. Confidentiality will be respected to the greatest degree possible. Any student who believes she or he may be the victim of sexual misconduct is encouraged to report to one or more of the following resources:

- 1. Local Domestic Violence, Sexual Assault Advocacy Agency 308-237-2599
- 2. Campus Police (or Security) 308-865-8911
- 3. Title IX Coordinator 308-865-8655

Retaliation against the student making the report, whether by students or University employees, will not be tolerated.

If you have questions regarding the information in this email please contact Mary Chinnock Petroski, Chief Compliance Officer (petroskimj@unk.edu or phone 8400).

Course Calendar

Exams will be given on the last class day (generally Friday) of the week they are scheduled.

Week	Week of	Section	Topic & Assessment	<u>arca.</u>
1	8 / 24	\$1.1	Functions and Their Graphs	
		\$1.2	Combining Functions; Shifting and Scaling Graphs	
		§1.3	Trigonometric Functions	TTTA7 1
	0.701	\$1.4	Graphing with Software	HW 1
2	8 / 31	§1.5	Exponential Functions	
		\$1.6	Inverse Functions and Logarithms	III 0
		\$2.1	Rates of Change and Tangent Lines to Curves	HW 2
3	9 / 7	\$2.2	Limit of a Function and Limit Laws	
		§2.3	The Precise Definition of a Limit	
		\$2.4	One-Sided Limits	HW 3
4	9 / 14	§2.5	Continuity	
		\$2.6	0 1 1	Exam 1& HW 4
5	9 / 21	§3.1	Tangent Lines and the Derivative at a Point	
		§3.2	The Derivative as a Function	
		§3.3	Differentiation Rules	HW 5
6	9 / 28	§3.4	The Derivative as a Rate of Change	
		§3.5	Derivatives of the Trigonometric Functions	
		§3.6	The Chain Rule	HW 6
7	10 / 5	§3.7	Implicit Differentiation	
		§3.8	Derivatives of Inverse Functions and Logarithms	
		§3.9	Inverse Trigonometric Functions	HW 7
8	10 / 12	§3.10	Related Rates	
		§3.11	Linearization and Differentials E	Exam 2 & HW 8
9	10 / 19	§4.1	Extreme Values of Functions on Closed Intervals	HW 9
10	10 / 26	§4.2	The Mean Value Theorem	
		§4.3	Monotonic Functions and the First Derivative Test	HW 10
11	11 / 2	§4.4	Concavity and Curve Sketching	
		§4.5	Indeterminate Forms and L'Hôpital's Rule	
		§4.6	Applied Optimization	HW 11
12	11 / 9	§4.6	Applied Optimization (continued)	
		§4.7	Newton's Method	
		§4.6	Antiderivatives	HW 12
13	11 / 16	§5.1	Area and Estimating with Finite Sums	
	10	§5.2		am 3 & HW 13
14	11 / 23	\$5.3	The Definite Integral	
	11 , 20	\$5.4	The Fundamental Theorem of Calculus	
		§5.5	Indefinite Integrals and the Substitution Method	HW 14
15	11 / 30	§6.1	Volumes Using Cross-Sections	
10	11 / 50	§6.2	Volumes Using Cylindrical Shells	
		§6.2 §6.3	Arc Length	HW 15
16	12 / 7	30.0	Catch up and Review	1111 13
17	12 / 14		Exam 4 (50 points) Monday 14 December 2020, 13:0	0 – 15:00
11	12/14		Comprehensive Final Exam Tuesday 15 December 2	
			Comprehensive rinai exam ruesuay 15 December 2	.020, 10.30 – 12.30

Additional learning resources

MyLab | Math has many learning resources. In the left column, look for a link to "eText Contents." From there, you will find a link to the textbook. You can navigate to a specific page in the book by entering the page number in the box in the top middle. Also in the left column, look for a link to "Video Resource Library." From there, selecting a chapter and section and clicking on "video" gives a list of videos to watch. Instead, selecting "Multimedia Textbook," gives us the texbook.

The lectures of Professor Leonard follows our course fairly well. For a link to all of his calculus videos, start here: https://www.youtube.com/channel/UCoHhuummRZaIVX7bD4t2czg

Here is a listing of our sections with a link to a corresponding Professor Leonard video. For some sections, there doesn't seem to be a matching video from Professor Leonard; for these, please use the resources from our textbook.'

Section	Alternative lecture		
\$1.1	https://www.youtube.com/watch?v=1EGFSefe5II&list=PLF797E961509B4EB5&index=3&t=0s		
§1.1 §1.2	https://www.youtube.com/watch?v=fUsIP5jyA&list=PLF797E961509B4EB5&index=4		
§1.2 §1.3	https://www.youtube.com/watch:v=10srsjyx&fist=PLF797E961509B4EB5&index=4&t=0s		
§1.5 §1.5	(our textbook)		
\$1.6	(our textbook)		
\$2.1 & \$2.2	https://www.youtube.com/watch?v=54_XRjHhZzI&list=PLF797E961509B4EB5&index=5		
\$2.2	https://www.youtube.com/watch?v=VSqOZNULRjQ		
\$2.3	(our textbook)		
\$2.4	(our textbook)		
\$2.5	https://www.youtube.com/watch?v=OEE5-M4aY4k&list=PLF797E961509B4EB5&index=8&t=0s		
\$2.6	https://www.youtube.com/watch?v=-PYebK8DKPc&list=PLF797E961509B4EB5&index=21		
§3.1 & §3.2	https://www.youtube.com/watch?v=9621LfW-8Jo&list=PLF797E961509B4EB5&index=9		
\$3.3	https://www.youtube.com/watch?v=EY6FHX6asU0&list=PLF797E961509B4EB5&index=10		
\$3.3	https://www.youtube.com/watch?v=AvCQQ3X4Nuc&list=PLF797E961509B4EB5&index=11		
\$3.4	https://www.youtube.com/watch?v=qr1WXiq3S3k&list=PLF797E961509B4EB5&index=12		
§3.5	https://www.youtube.com/watch?v=RJJSiNz5oto&list=PLF797E961509B4EB5&index=13		
\$3.6	https://www.youtube.com/watch?v=8dr1dZjfhmc&list=PLF797E961509B4EB5&index=14		
§3.7	https://www.youtube.com/watch?v=RUS4mKo9tBk&list=PLF797E961509B4EB5&index=15		
§3.8	(our textbook)		
§3.9	(our textbook)		
§3.10	https://www.youtube.com/watch?v=43Qt6wc44To&list=PLF797E961509B4EB5&index=16		
\$3.11	(our textbook)		
\$4.1	https://www.youtube.com/watch?v=Mx39JbbzEAo&list=PLF797E961509B4EB5&index=17		
\$4.2	https://www.youtube.com/watch?v=qW89xdGfSzw&list=PLF797E961509B4EB5&index=18		
§4.3	https://www.youtube.com/watch?v=nQ6t00RDQ3I&list=PLF797E961509B4EB5&index=19		
§4.4	https://www.youtube.com/watch?v=8u6woY05aL0&list=PLF797E961509B4EB5&index=22		
§4.5	(our textbook)		
§4.6	https://www.youtube.com/watch?v=SWZcq_biZLw&list=PLF797E961509B4EB5&index=23		
§4.7	(our textbook)		
§4.8	https://www.youtube.com/watch?v=b2ZFpE_yrLg&list=PLF797E961509B4EB5&index=24		
§5.1 & §5.2	https://www.youtube.com/watch?v=F0uuW-I6icY&list=PLF797E961509B4EB5&index=26		
§5.3	https://www.youtube.com/watch?v=K00RDCt5Ig0&list=PLF797E961509B4EB5&index=27		
§5.4	https://www.youtube.com/watch?v=xjtEfSOvY2o&list=PLF797E961509B4EB5&index=28		
§5.5	https://www.youtube.com/watch?v=aiBD9aI69C8&list=PLF797E961509B4EB5&index=25		
§5.6	https://www.youtube.com/watch?v=c7wur9Lixb0&list=PLF797E961509B4EB5&index=29		
§6.1	https://www.youtube.com/watch?v=GJOJ14712_4&list=PLF797E961509B4EB5&index=30		
§6.2	https://www.youtube.com/watch?v=BDmlottZVd4&list=PLF797E961509B4EB5&index=31		
§6.3	https://www.youtube.com/watch?v=5Yuw1jCBq-0&list=PLF797E961509B4EB5&index=32		