

**ECON 245 A01
Descriptive Statistics and Probability
CRN 11099**

Fall Session: 2020 09 -- Term 1

Class Web Page - <http://web.uvic.ca/~bettyj/245>

INSTRUCTOR: Betty J. Johnson

E-Mail: bettyj@uvic.ca

Online Office Hours: Tuesday and Friday 11:30 to 12:30 pm (Zoom)

<https://uvic.zoom.us/j/92167553171?pwd=OE9XWi84Mk1Ub21WbW5MNG5WMzISdz09>

Tophat: Course code: 220364

<https://app-ca.tophat.com/e/220364>

text: 1-(647)-931-6504

Textbook: WebAssign key: uvic.bc 5513 9756

Course Content

The objective of this course is to introduce you to techniques and tools to deal with economic data and economic applications. Probability theory and descriptive statistics are central to modern applied economics. A clear understanding of such ideas is important in the subsequent study of economics.

Economics 245 is the foundation of a series of courses in the teaching of quantitative economics. In particular, it will introduce you to basic statistical concepts and characteristics of economic data. By providing insight into various economic data sets, you will be better equipped to summarize and interpret economic events in a meaningful and efficient fashion.

The course is roughly divided into two components: (i) descriptive economic statistics and (ii) probability and random variables. Part (i) deals essentially with how to **describe** and **summarize** characteristics of economic data. In the process of doing this we will learn about some aspects of data manipulation that are central to the way in which agencies, such as Statistics Canada, publish economic information. Part (ii) provides **applications** of probability, and **insight** into the statistical characteristics of random sampling. Such background material is necessary for us to subsequently learn about statistical inference, a topic that forms the basis for Economics 246.

LECTURES: On Tophat. I will post pre-recorded lectures with imbedded questions each week to replace the face-to-face lectures. These recordings will highlight the important and challenging material that is required. Use these recording, rather than the entire text chapters to represent what is required. Not all parts of every chapter referenced is required.



LABORATORY CLASSES:

Laboratory classes are scheduled for this course. You need to register in a Laboratory section. The Laboratory sessions cover formal classwork, with an instructor present on Zoom, and they run **all term**. The first few laboratory classes are designed to provide you with an introduction to the EViews computing package. A Tophat lab will be assigned during that time and submission of answers to the lab exercise will *be time sensitive*.

| Lab Section | Day | CRN# | Time | Location | Tophat Lab Code |
|-------------|----------|-------|---------|------------------|-----------------|
| B01 | Monday | 11100 | 3:30 pm | Wifi and EViews. | 005735 |
| B02 | Monday | 11101 | 4:30 pm | Wifi and EViews. | 851532 |
| B03 | Tuesday | 11102 | 2:30 pm | Wifi and EViews. | 020261 |
| B04 | Tuesday | 11103 | 3:30 pm | Wifi and EViews. | 795587 |
| B05 | Thursday | 11104 | 2:30 pm | Wifi and EViews. | 445989 |
| B06 | Thursday | 11105 | 3:30 pm | Wifi and EViews. | 206718 |
| B07 | Thursday | 11106 | 4:30 pm | Wifi and EViews. | 075578 |
| B08 | Thursday | 11107 | 5:30 pm | Wifi and EViews. | 950245 |

Students can now download a free version of EViews to use for assignments, etc.

Zoom for UVic: <https://uvic.zoom.us/>

Sign in with your Netlink account.

<http://www.eviews.com/EViews11/EViews11Univ/evuniv11.html>



EViews 11 University Edition

[Purchase Online](#)

[EViews Tutorial Video](#)

[License and Restrictions](#)

[System Requirements](#)

"...AN INEXPENSIVE VERSION OF EViews 11
TARGETED FOR INSTRUCTIONAL USE IN THE
AREAS OF ECONOMETRIC ANALYSIS,
FORECASTING, AND STATISTICS"...

EViews 11 University Edition for Windows and Mac

EViews University Edition has the same powerful econometric and analytical methods used in the EViews Enterprise Edition.

EViews University Edition is a modern econometric, statistics, and forecasting package that offers powerful analytical tools within a flexible, easy-to-use interface. With EViews' easy to use point-and-click graphical user interface, you can concentrate on using EViews without having to learn complicated command syntax or navigate through layers of menus. Thousands of universities, academic institutions, and professors worldwide are using EViews to teach econometrics and time-series analysis.

Using EViews, you can quickly and efficiently manage your data, perform econometric and statistical analysis, generate forecasts or model simulations, and produce high quality graphs and tables.

EViews University Edition is available for \$49.95.

The license will expire after 6 months.

[Buy Now](#)

Only available for faculty and enrolled students.

EViews 11 Student Version Lite

EViews Student Version Lite is free! Students can download EViews Student Version Lite to complete their course work. Professors can now use EViews Student Version Lite to teach econometrics without worrying about cost. Though there are some limitations, EViews Student Version Lite offers you the same powerful analytical methods used in the University Edition. Please refer to the table and descriptions below for more information about EViews University Edition and Student Version Lite limitations.

Teaching and learning econometrics is easier with EViews Student Version Lite. Download your free EViews Student Version Lite license.

[Free Download](#)

Grading

The final grade is determined as follows:

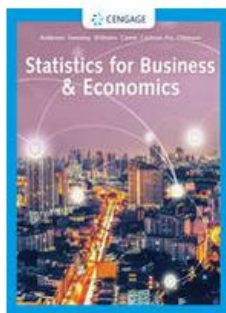
| Item | Weight in grade calculation |
|---|-----------------------------|
| Lecture Questions on Tophat | 10 percent |
| WebAssign Assignments (4) (Text) | 15 percent |
| 2 midterms (<i>open book</i>) on Tophat | 3x15 = 30 percent |
| Labs (10) | 10 Percent |
| Final Exam | 35 Percent |

Midterm(s): The midterm exams are scheduled for October 2 and October 30 at 12:30 p.m..

Textbook (required)

1. **Standard Bound Textbook w/WebAssign Life of Edition Access – ISBN – 9780357196045, Price – \$200.95**
2. **Loose Leaf textbook w/WebAssign Life of Edition Access – ISBN – 9780357196168, Price - \$129.95**
3. **WebAssign stand-alone Life of Edition Access – ISBN – 9780357031391, Price - \$99.95**

Statistics for Business & Economics, 14th Edition



David R. Anderson, Dennis J. Sweeney,
Thomas A. Williams, Jeffrey D. Camm,
James J. Cochran, Michael J. Fry, Jeffrey
W. Ohlmann
ISBN-10: 1337901067
ISBN-13: 9781337901062
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Assignment(s):

There are four online assignments. Assignments will be posted well ahead of the due date and will close at 3 pm PST on the due date. Make sure you have set up your account before you start the assignment.

WebAssign

Betty Johnson,

You have added the following sections that allow self-enrollment. Here are the class keys that students in each section will need to enroll themselves:

| Instructor | Section | Class Key |
|---------------|---------------------------------|-------------------|
| Betty Johnson | Econ 245 Fall 2020, section A01 | uvic.bc 5513 9756 |

Please provide the correct key to your students in each section. If you are a course coordinator, forward this information to the instructor for each section.

Thank you,

The WebAssign Team

Instructions on how to sign up and sign to WebAssign are found on the open website, Tophat and Brightspaces.

WebAssign

This Quick Start Guide provides information to help you start using WebAssign.

ENROLL WITH A CLASS KEY

Your instructor might give you a class key like **MYSCHOOL 1234 5678** to enroll in your class. A class key does not verify payment.

Enroll yourself in each class section only once.

1. Go to <https://webassign.net/login.html> and click **Enroll with Class Key**.
2. Enter your class key and click **Enroll**.
3. If the correct class and section is listed, click **Yes, this is my class**.
4. Sign in or create your account.

I Have a Cengage Account

1. Type your Cengage username and password.
2. Click **Sign In**.
3. If prompted, enter your student ID and click **Submit**.
4. If prompted, either sign in to your existing WebAssign account or create a new WebAssign account.

I Don't Have an Account

1. Click **Create Account**.
2. Type the details for your new Cengage account.
3. Read and acknowledge your acceptance of the Cengage service agreement.
4. Click **Create Account**.

I DON'T HAVE A CLASS KEY

You don't need to enroll yourself or create your WebAssign account.

SIGN IN

1. Go to webassign.net/login.html.
2. Enter your email address and click **Next**.

NOTE Before you create a new account, make sure you do not have an existing account.

3. Enter your password and click **Sign In**. Your Cengage Dashboard displays.
4. Click your WebAssign course. You are now in your WebAssign course.

Forgot Password

You can reset your Cengage password from the sign-in page.

1. Go to webassign.net/login.html.
2. On the sign-in page, click **Need help signing in > Forgot password**.
3. Type your email address and click **Reset via email**. Cengage sends you an email.
4. Open the email and click **Reset Your Password**.
5. Type your new password in both password fields.

NOTE

Your password must contain:

- at least 8 characters
- a lowercase letter
- an uppercase letter
- a number

PURCHASE ACCESS

WebAssign gives you free access for two weeks after the start of class. To continue using WebAssign after that, either enter an access code or purchase access online.

NOTE An access code included with some textbooks verifies that you have already purchased WebAssign access.

I have an access code

1. Verify your access code at webassign.net/user_support/student/cards.html.
2. Sign in to WebAssign.
3. Click **Enter Access Code or Purchase Access**.
4. Enter your access code and click **Redeem**.

I do not have an access code

1. Sign in to WebAssign.
2. Click **Enter Access Code or Purchase Access**.
3. Select the items you want to purchase and click **Continue**.
4. Review the items in your cart and click **Start Secure Checkout**.
5. Enter your billing address and click **Next**.
6. Select your payment method and enter your payment information.

Upgrade to Unlimited

1. Sign in to your Cengage account.
2. On your dashboard, click **Review Purchase Options**.
3. Choose a subscription.
 - a. If subscribing to Cengage Unlimited, select the length of your subscription.
4. Click **Subscribe Now**.
5. Enter your billing address and click **Next**.
6. Select your payment method and enter your payment information.

SYSTEM REQUIREMENTS

SUPPORTED BROWSERS

Windows®

- Chrome™ 79 and later
- Firefox® 74 and later
- Edge 17 and later

macOS™

- Chrome 79 and later
- Safari® 13 and later

Linux®

- Firefox 59 or later

NOTE LockDown Browser® assignments cannot be accessed on Linux.

iOS

- Safari 11 or later (iPad only)

NOTE Flash® and Java™ content does not work on iOS.

LockDown Browser assignments cannot be accessed on iOS.

Features and content are not optimized for a small screen size and might be difficult to use.

WORKSTATION RECOMMENDATIONS

- Download bandwidth: 5+ Mbps
- RAM: 2+ GB
- CPU: 1.8+ GHz / multi-core
- Display: 1366 × 768, color
- Graphics: DirectX, 64+ MB
- Sound (for some content)

MORE INFORMATION AND SUPPORT

Search the online help for answers to most questions.

Information in this guide is intended for US students. For international support, visit the online help.

webassign.net/manual/student_guide/

WEBASSIGN STATUS

Check the current status of WebAssign at techcheck.cengage.com.

CONTACT US SUPPORT

ONLINE: support.cengage.com
CALL: 800.354.9706

Course Schedule

| Topic | Chapter | Week | Due Dates and Exam Information |
|--|----------|-------|--|
| Topic 1: Introduction Topic 2: Descriptive Statistics Topic 3 Index Numbers | 1, 2, 3 | 1-3 | Lecture 1: Sept. 12 Lecture 2: Sept. 13 Lecture 3: Sept. 15 Required to remain in class Lecture 4: Sept. 19 Lecture 5: Sept. 26 Assignment #1 due Sept. 25 @ 3 pm |
| Topic 3 Index Numbers and Time Series | 20, 17 | 4-6 | Lecture 6: Oct. 3 Lecture 7: Oct. 10 Lecture 8: Oct. 17 Exam 1 October 2 @ 12:30 pm Assignment #2 Due Oct. 16 @ 3 pm |
| | | | |
| Topic 3: Time Series Topic 4 Probability Topic 5: Discrete Random Variables | 17, 4, 5 | 7-9 | Lecture 9: Oct. 24 Lecture 10: Oct. 31 Lecture 11: Oct. 31 Lecture 12: Nov. 7 Exam 2 October 30 @ 12:30 pm |
| | | | |
| Topic 5: Discrete Random Variables Topic 6 Continuous Random Variables; Normal Distribution | 5, 6 | 10-13 | Lecture 13: Nov. 14 Lecture 14: Nov. 21 Lecture 15: Nov. 21 Lecture 16: Nov. 28 Lecture 17: Dec. 4 Lecture 18: Dec. 4 Assignment #3 due Nov. 13 @ 3 pm Assignment #4 due Dec. 4 @ 3 pm. |
| | | | |

Communication:

Office hours: The University of Victoria has a site licence for Zoom conferencing. I will set a schedule Zoom meetings twice a week.

<https://uvic.zoom.us/j/92167553171?pwd=OE9XWi84Mk1Ub21WbW5MNG5WMzISdz09>

Open Website: web.uvic.ca/~bettyj/245

- This site is an open access website for anyone to see what we are doing in class. No subscription code is required.
- I load up a course calendar, announcements and interesting links on this website.
- Incomplete notes and test practice will appear here.

Tophat

- Tophat is used extensively for the course. All students are expected to be fully functional with the system.
- All of the full lecture notes will be posted in Tophat.
- Class exams will be given using Tophat.
- Announcements will appear in Tophat

BrightSpaces (NEW!)


- BrightSpaces is used as a **third** means of delivering information for the course. All students are expected to be fully functional with the system. Your grades will be posted on Brightspaces.
- The lecture notes will **NOT** be posted in BrightSpaces.

All announcements will be posted in BrightSpaces, Tophat and my “open access” website web.uvic.ca/~bettyj/245. Students are advised to check regularly for updates.

Course add and drop dates

The following fee reductions apply to undergraduate students and auditors enrolled in undergraduate courses. Please note that acceptance deposits are not refundable.

Add and drop dates for standard 2020-2021 Winter Session courses



| Term | Start date | End date | 100% fee reduction | Add deadline | 50% fee reduction | Academic drop no fee reduction |
|-------------|------------|----------|--------------------|--------------|-------------------|--------------------------------|
| First term | Sep 9 | Dec 4 | Sep 22 | Sep 25 | Oct 13 | Oct 31 |
| Second term | Jan 6 | Apr 7 | Jan 19 | Jan 22 | Feb 9 | Feb 28 |

Winter session - first term

September 2020

Labour Day

Monday, September 7th

First year registration and opening assembly for Faculty of Law

Tuesday, September 8th

First term classes begin for all faculties

Wednesday, September 9th

Last day for course changes in Faculty of Law

Thursday, September 17th

Last day for 100% reduction of tuition fees for standard first term and full year courses

Tuesday, September 22nd

50% of tuition fees will be assessed for courses dropped after this date. For non-standard courses, see [Course add and drop dates](#)

Last day for graduate students to register in a personal leave in first term

Tuesday, September 22nd

Last day for adding courses that begin in the first term

Friday, September 25th

Last day for paying first term fees without penalty

Wednesday, September 30th

October 2020

Senate meets

Friday, October 2nd

Thanksgiving Day

Monday, October 12th

Last day for 50% reduction of tuition fees for standard courses

Tuesday, October 13th

100% of tuition fees will be assessed for courses dropped after this date. For non-standard courses see [Course add and drop dates](#)

Senate Committee on Academic Standards meets to approve Convocation lists

Wednesday, October 21st

Last day for withdrawing from first term courses without penalty of failure

Saturday, October 31st

November 2020

Senate meets

Friday, November 6th

Fall Convocation

Monday, November 9th until Tuesday, November 10th

Reading Break (except Faculty of Law)

Monday, November 9th until Wednesday, November 11th

Remembrance Day

Wednesday, November 11th

Faculty of Graduate Studies deadline to apply to graduate for Spring Convocation

Sunday, November 15th

Students completing in the Fall term only

December 2020

Last day of classes in the first term for Faculty of Law

Thursday, December 3rd

National Day of Remembrance and Action on Violence Against Women

Friday, December 4th

Classes and exams cancelled from 11:30 am - 12:30 pm

Last day of classes in first term for all faculties except the Faculty of Law

Friday, December 4th

Senate meets

Friday, December 4th

First term examinations begin for all faculties

Monday, December 7th

Undergraduate deadline to apply to graduate for Spring Convocation

Tuesday, December 15th

First term examinations end for all faculties

Monday, December 21st

Christmas Day

Friday, December 25th

University closed

Friday, December 25th until Sunday, January 3rd

Boxing Day

Saturday, December 26th

University Policy

Grading Scale:

| | | | | | | | | | |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| A+ | A | A- | B+ | B | B- | C+ | C | D | F or N |
| 90-100 | 85-89 | 80-84 | 77-79 | 73-76 | 70-72 | 65-69 | 60-64 | 50-59 | 0-49 |

Students should review the University's more detailed [summary of grading](#).

Course Policies

This course adheres to the [Undergraduate Course Policies](#) of the Department of Economics that deal with the following issues:

- Academic concessions
- Academic integrity (plagiarism and cheating)
- Attendance
- Grading
- Inclusivity and diversity
- Late adds
- Late assignments
- Repeating courses
- Review of an assigned grade
- Sexualized violence prevention and response
- Students with a disability
- Term assignments and debarment from examinations
- Travel plans
- Waitlists

The following policies are explicitly included because of their importance.

Examinations

Participation online for all scheduled examinations is mandatory. Consideration for missed examinations will be given only on the basis of documented illness, accident or family affliction, and for no other reasons. In the event of a missed final examination, students are advised to follow the procedures outlined in the [University Calendar](#).

Students are advised not to make work or travel plans until after the examination timetable has been finalized. Students who wish to finalize their travel plans at an earlier date should book flights that depart after the end of the examination period. There will be no special accommodation if travel plans conflict with the examination.

Waitlist Policies

- **Instructors have no discretion to admit waitlisted students or raise the cap on the course.**
- Students on the waitlist should discuss with the instructor how to ensure they are not behind with coursework in the event they are admitted.
- **Registered students who do not participate as specified in this outline during the first 3 class "meetings" for Fall Term courses, may be dropped from the course. This will be assessed by not completing the assigned course lecture and questions during that time.**
- Registered students who decide not to take the course are responsible for dropping the course, and are urged to do so promptly out of courtesy toward waitlisted students.
- Waitlist offers cease after the last date for adding courses irrespective of published waitlists.

Academic Integrity

Academic integrity requires commitment to the values of honesty, trust, fairness, respect, and responsibility. Students are expected to observe the same standards of scholarly integrity as their academic and professional counterparts. A student who is found to have engaged in unethical academic behaviour, including the practices described in the [Policy on Academic Integrity](#) in the University Calendar, is subject to penalty by the University.

Review [What is Plagiarism](#) for the definition of plagiarism. Note: Submitted work may be checked using plagiarism detection software.

University Policy on Human Rights, Equity and Fairness

The University is committed to promoting, providing and protecting a positive, supportive and safe learning and working environment for all its members.

See [General University Policies](#)

Accessibility & Health Resources

Centre for Accessible Learning

Students with diverse learning styles and needs are welcome in this course. In particular, if you have a disability/health consideration that may require accommodations, you are free to approach me; however, you must register with the [Centre for Accessible Learning](#) (CAL) for formal arrangements to be made. The CAL staff are available by appointment to assess specific needs, provide referrals and arrange appropriate accommodations. The sooner you let us know your needs the quicker we can assist you in achieving your learning goals in this course.

[Health Services](#) - University Health Services (UHS) provides a full service primary health clinic for students, and coordinates healthy student and campus initiatives.

[Counselling Services](#) - Counselling Services can help you make the most of your university experience. They offer free professional, confidential, inclusive support to currently registered UVic students.

[Elders' Voices](#) - The Office of Indigenous Academic and Community Engagement (IACE) has the privilege of assembling a group of Elders from local communities to guide students, staff, faculty and administration in Indigenous ways of knowing and being.

Course Experience Survey (CES)

I value your feedback on this course. Towards the end of term you will have the opportunity to complete a confidential course experience survey (CES) regarding your learning experience. The survey is vital to providing feedback to me regarding the course and my teaching, as well as to help the department improve the overall program for students in the future.

When it is time for you to complete the survey, you will receive an email inviting you to do so. If you do not receive an email invitation, you can go directly to the [CES log-in](#). You will use your UVic NetLink ID to access the survey, which can be completed on your laptop, tablet or mobile device. I will remind you nearer the time, but please be thinking about this important activity, especially the following three questions, during the course.

- What strengths did your **instructor** demonstrate that helped you learn in this course?
- Please provide specific suggestions as to how the **instructor** could have helped you learn more effectively.
- Please provide specific suggestions as to how this **course** could be improved.



Repeating Courses

Be aware of the policy regarding the repeating of courses; see [University Calendar](#).

In order to request permission to attempt this course for the third time, you must follow the instructions provided under the [Repeating Courses](#) policy on the Economics website.

Failure to obtain permission will result in deregistration from the course.

According to the University of Victoria Calendar <http://web.uvic.ca/calendar>

“A student may not attempt a course a third time without the prior approval of the Dean of the Faculty and the Chair of the Department in which the course is offered unless the calendar course entry states that the course may be repeated for additional credit. A student who has not received this approval may be deregistered from the course at any point and may be asked to withdraw from his or her declared or intended program.”

In order to request permission to attempt this course for the third time, you must follow the instructions provided under the link **Repeating Courses** at

<http://www.uvic.ca/socialsciences/economics/undergraduate/home/course%20policies/index.php>

Failure to obtain permission will result in deregistration from the course.

E-mail correspondence

Emails should be limited to critical matters, such as inability to attend class, an exam, or prolonged illness, and should include the course name and number in the subject line. Questions on course material should be asked during office hours. The standard format for writing a letter must be used. This means it should begin with a salutation (e.g. Dear....), include full sentences and it must conclude with a signature that includes your **full name and V#**. Text message lingo should not be used.

Electronic devices

Use what you need. You will need access to a computer or smartphone. Exams can be “written” using your phone.

Educational Technology involving storage outside Canada

The following educational technologies, which stores or accesses your personal information outside Canada, is required for this course: Nelson’s Cengage Digital Learning for WebAssign. This product will store your information on an American server.

Personal information is required by the service. The privacy policy and the terms of use list the personal information stored outside of Canada and are available at <https://www.nelson.com/privacy.html>. I encourage you to read these documents. All other technologies, including Tophat, use a Canadian server. I will make you aware if this list changes.

If you are not comfortable with your personal information being stored outside of Canada, please “speak” to me within the first week of class about using an alternative (such as using an alias or nickname). Otherwise, by continuing in this course, you agree to the use of the educational technology in the course and the storage of personal information outside of Canada.

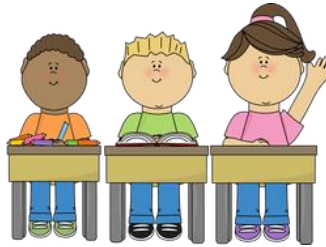
Sexualized Violence Prevention & Response

UVic takes sexualized violence seriously, and has raised the bar for what is considered acceptable behaviour. Students are encouraged to learn more about how the university defines sexualized violence and its overall approach by visiting www.uvic.ca/svp. If you or someone you know has been impacted by sexualized violence and needs information, advice, and/or support please contact the sexualized violence resource office in Equity and Human Rights (EQHR). Contact svpcoordinator@uvic.ca.



















Learning Outcomes

Economics 245 is the first of a series of courses dealing with statistics and econometrics. At the end of the course students should:

- *Understand how to appropriately deal with describing and analyzing basic data sets using economic data.*
- *Perform simple probability*
- *Enhance their personal understanding of Canadian data collection agencies.*



Term Assessment- Fall 2020

| Week # | Monday | Tuesday | Wednesday | Thursday | Friday |
|---|---|---|--|---|------------------|
| (1) Sept. 7-11 | 7 | 8 | 9 First Day!  | 10 | 11 |
| (2) Sept. 14-18 | 14 | 15 Get those 2 Lectures completed! | 16 | 17 | 18 |
| (3) Sept. 21-25 Labs start  | 21  | 22  | 23 | 24  | 25 Asmt 1 due |
| (4) Sept 28-Oct 2 Lab 2 | 28  | 29  | 30 | 1  | 2 Midterm 1 |
| (5) Oct. 5-9 Lab 3 | 5  | 6  | 7 . | 8  | 9 |
| (6) Oct. 12-16 No labs this week | 12 Thanksgiving  | 13 | 14 | 15 | 16 Asmt 2 due |
| (7) Oct. 19-23 Lab 4 | 19  | 20  | 21 | 22  | 23 |
| (8) Oct. 26-31 Lab 5 | 26  | 27  | 28 | 29  | 30 Midterm #2 |
| (9) Nov.2-6 Lab 6 | 2  | 3  | 4 | 5  | 6 |
| (10) Nov. 9-13 | 9 Reading Break | 10 Reading Break | 11 Reading Break | 12 | 13 Asmt 3 due |
| (11) Nov. 16-20 Lab 7 | 16  | 17  | 18 | 19  | 20 |
| (12) Nov. 23-27 Lab 8 | 23  | 24  | 25 | 26  | 27 |
| (13) Nov. 30-Dec 4 Lab 9 | 30  | 1  | 2 | 3  | 4 Asmt 4 due |

