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.

<table>
<thead>
<tr>
<th>Lab Section</th>
<th>Day</th>
<th>CRN#</th>
<th>Time</th>
<th>Location (TBA)</th>
<th>Tophat Lab Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>B01</td>
<td>Monday &amp; Thursday</td>
<td>32670</td>
<td>2:30 pm</td>
<td>Zoom.</td>
<td>584090</td>
</tr>
<tr>
<td>B02</td>
<td>Monday &amp; Thursday</td>
<td>32671</td>
<td>3:30 pm</td>
<td>Zoom.</td>
<td>528203</td>
</tr>
<tr>
<td>B03</td>
<td>Monday &amp; Thursday</td>
<td>32672</td>
<td>4:30 pm</td>
<td>Zoom.</td>
<td>374026</td>
</tr>
<tr>
<td>B04</td>
<td>Monday &amp; Thursday</td>
<td>33243</td>
<td>2:30 pm</td>
<td>Zoom.</td>
<td>411123</td>
</tr>
<tr>
<td>B05</td>
<td>Monday &amp; Thursday</td>
<td>33244</td>
<td>2:30 pm</td>
<td>Zoom.</td>
<td>280190</td>
</tr>
<tr>
<td>B06</td>
<td>Monday &amp; Thursday</td>
<td>33245</td>
<td>2:30 pm</td>
<td>Zoom.</td>
<td>002532</td>
</tr>
</tbody>
</table>

Zoom for UVic: [https://uvic.zoom.us/](https://uvic.zoom.us/)
Sign in with your Netlink account.

Grading
The final grade is determined as follows:

<table>
<thead>
<tr>
<th>Item</th>
<th>Weight in grade calculation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lecture Questions on Tophat</td>
<td>15 percent</td>
</tr>
<tr>
<td>WebAssign Assignments (4) (Text)</td>
<td>15 percent</td>
</tr>
<tr>
<td>3 Exams (open book) on Tophat</td>
<td>3x20 = 60 percent</td>
</tr>
<tr>
<td>Labs (10)</td>
<td>10 Percent</td>
</tr>
</tbody>
</table>

Exams: The exams are scheduled for May 21, June 4 and June 25 at 12:30 p.m..

Textbook (required)

Statistics for Business & Economics, 14th Edition

WebAssign Student Registration Video -
https://www.youtube.com/watch?v=A49yAIpwgCc&feature=youtu.be

WebAssign Student Tech Support info: Phone # - 1-800-310-5661 (9am-7pm EST), e-mail – support.cengage.ca

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

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:

<table>
<thead>
<tr>
<th>Instructor</th>
<th>Section</th>
<th>Class Key</th>
</tr>
</thead>
<tbody>
<tr>
<td>Betty Johnson</td>
<td>Economics 245 Summer 2021 A01, section A01</td>
<td>uvic.bc 7011 9619</td>
</tr>
</tbody>
</table>

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
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 MYSCCHOOL 12345678 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.
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 into 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: 1.6+ GHz / multi-core
• Display: 1366 x 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

<table>
<thead>
<tr>
<th>Topic</th>
<th>Chapter</th>
<th>Week</th>
<th>Due Dates and Exam Information</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Topic 1: Introduction</strong></td>
<td>1, 2, 3</td>
<td>1-2</td>
<td>Lecture 1: May 17&lt;br&gt;Lecture 2: May 17&lt;br&gt;Lecture 3: May 17&lt;br&gt;Required to remain in class&lt;br&gt;Assignment #1 due May 19 @ 3 pm (Wednesday)&lt;br&gt;Exam 1 May 19 @ 12:30 pm&lt;br&gt;Lecture 4: May 24&lt;br&gt;Lecture 5: May 24&lt;br&gt;Lecture 6: May 24</td>
</tr>
<tr>
<td><strong>Topic 2: Descriptive Statistics</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Topic 3: Index Numbers</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Topic 3: Index Numbers and Time Series</strong></td>
<td>20, 17</td>
<td>3-4</td>
<td>Assignment #2 due May 28 @ 3 pm (Friday)&lt;br&gt;Lecture 7: May 31&lt;br&gt;Lecture 8: May 31&lt;br&gt;Lecture 9: May 31&lt;br&gt;Exam 2 June 4 @ 12:30 pm&lt;br&gt;Lecture 10: June 7&lt;br&gt;Lecture 11: June 7&lt;br&gt;Lecture 12: June 7</td>
</tr>
<tr>
<td><strong>Topic 4: Probability</strong></td>
<td>4, 5, 6</td>
<td>5-6</td>
<td>Assignment #3 due June 11 @ 3 pm (Friday)&lt;br&gt;Lecture 13: June 14&lt;br&gt;Lecture 14: June 14&lt;br&gt;Lecture 15: June 14&lt;br&gt;Lecture 16: June 21&lt;br&gt;Lecture 17: June 21&lt;br&gt;Assignment #4 due June 23 @ 3 pm (Wednesday)</td>
</tr>
<tr>
<td><strong>Topic 5: Discrete Random Variables</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Topic 6: Continuous Random Variables; Normal Distribution</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Review Lectures</strong></td>
<td></td>
<td>7</td>
<td>Lecture 18: June 21&lt;br&gt;Exam 3: June 25 @ 12:30 pm</td>
</tr>
</tbody>
</table>
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/89259287012?pwd=ZlVkYzgrNEIBZENZaG5ZaGQ0YVhJUT09

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.

Add and drop dates for standard 2021 Summer Session courses

<table>
<thead>
<tr>
<th>Term</th>
<th>Start date</th>
<th>End date</th>
<th>Duration</th>
<th>100% fee reduction &amp; add deadline</th>
<th>50% fee reduction</th>
<th>Academic drop no fee reduction</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>May 5</td>
<td>Jul 30</td>
<td>87</td>
<td>May 17</td>
<td>Jun 6</td>
<td>Jun 30</td>
</tr>
<tr>
<td>2</td>
<td>May 10</td>
<td>Jun 25</td>
<td>47</td>
<td>May 16</td>
<td>May 27</td>
<td>Jun 9</td>
</tr>
<tr>
<td>3</td>
<td>Jul 5</td>
<td>Aug 20</td>
<td>47</td>
<td>Jul 11</td>
<td>Jul 22</td>
<td>Aug 4</td>
</tr>
<tr>
<td>4</td>
<td>May 10</td>
<td>Jun 2</td>
<td>24</td>
<td>May 13</td>
<td>May 18</td>
<td>May 25</td>
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<tr>
<td>5</td>
<td>Jun 3</td>
<td>Jun 25</td>
<td>23</td>
<td>Jun 5</td>
<td>Jun 11</td>
<td>Jun 17</td>
</tr>
<tr>
<td>6</td>
<td>Jul 5</td>
<td>Jul 27</td>
<td>23</td>
<td>Jul 7</td>
<td>Jul 13</td>
<td>Jul 19</td>
</tr>
<tr>
<td>7</td>
<td>Jul 28</td>
<td>Aug 20</td>
<td>24</td>
<td>Jul 31</td>
<td>Aug 5</td>
<td>Aug 12</td>
</tr>
</tbody>
</table>
# Summer session
See [undergraduate](#) and [graduate](#) Summer Session add and drop dates.

## May 2021
**May - August courses begin for all faculties**
Wednesday, May 5th

**Senate meets**
Friday, May 7th

**May and May-June courses begin**
Monday, May 10th

**Last day for Faculty of Law course changes**
Wednesday, May 12th
For more details regarding Summer 2021 Important Dates, see [www.uvic.ca/law/jd/courseregistration/index.php](http://www.uvic.ca/law/jd/courseregistration/index.php)

**Last day for graduate students to register in a personal leave in summer**
Tuesday, May 18th

**Victoria Day**
Monday, May 24th

**Senate Committee on Academic Standards meets to approve Convocation lists**
Thursday, May 27th

**Fees deadlines for summer**
Monday, May 31st
See [undergraduate](#) and [graduate](#) add and drop dates for standard summer courses

## June 2021
**May Courses End**
Wednesday, June 2nd

**June Courses Begin**
Thursday, June 3rd

**Spring Convocation**
Monday, June 7th until Friday, June 11th

**May-June and June Courses End**
Friday, June 25th

## July 2021
**Canada Day**
Thursday, July 1st
University Policy

Grading Scale:

<table>
<thead>
<tr>
<th>Grade</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>A+</td>
<td>90-100</td>
</tr>
<tr>
<td>A</td>
<td>85-89</td>
</tr>
<tr>
<td>A-</td>
<td>80-84</td>
</tr>
<tr>
<td>B+</td>
<td>77-79</td>
</tr>
<tr>
<td>B</td>
<td>73-76</td>
</tr>
<tr>
<td>B-</td>
<td>70-72</td>
</tr>
<tr>
<td>C+</td>
<td>65-69</td>
</tr>
<tr>
<td>C</td>
<td>60-64</td>
</tr>
<tr>
<td>D</td>
<td>50-59</td>
</tr>
<tr>
<td>F or N</td>
<td>0-49</td>
</tr>
</tbody>
</table>

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 Summer 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. 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.
<table>
<thead>
<tr>
<th>Week #</th>
<th>Monday</th>
<th>Tuesday</th>
<th>Wednesday</th>
<th>Thursday</th>
<th>Friday</th>
</tr>
</thead>
<tbody>
<tr>
<td>(1)</td>
<td>May 10</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>10 Start!</td>
<td>11</td>
<td>12</td>
<td>13</td>
<td>14</td>
</tr>
<tr>
<td>(2)</td>
<td>May 17</td>
<td>17</td>
<td>18</td>
<td>19 Assignment #1</td>
<td>20 Lab 2</td>
</tr>
<tr>
<td></td>
<td>Lab 1</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(3)</td>
<td>Jan 24</td>
<td>24</td>
<td>25</td>
<td>26</td>
<td>27 Lab 3</td>
</tr>
<tr>
<td></td>
<td>Victoria Day Holiday</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(4)</td>
<td>May 31</td>
<td>31</td>
<td>1</td>
<td>2</td>
<td>3 Lab 5</td>
</tr>
<tr>
<td></td>
<td>Lab 4</td>
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</tr>
<tr>
<td>(5)</td>
<td>June 7</td>
<td>7</td>
<td>8</td>
<td>9</td>
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<tr>
<td>(6)</td>
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<td>16</td>
<td>17 Lab 9</td>
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<td>Lab 8</td>
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</tr>
<tr>
<td>(7)</td>
<td>June 21</td>
<td>21</td>
<td>22</td>
<td>23 Assignment 4</td>
<td>24</td>
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<tr>
<td></td>
<td>Lab 10</td>
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