

# CSC343H1F 20239 (All Sections): Introduction to Databases

[Jump to Today](#)

 [Edit](#)

Welcome to CSC343H1! This course provides an Introduction to Databases, and prepares you for later study in the implementation of Database Management Systems.

The material posted on Quercus is required reading. It contains important information, including assignment handouts, the policy on missed work, links to the online discussion forum (Piazza), and announcements. You are responsible for all announcements made in lecture and on Quercus.

Note to Engineers: This course operates under [Faculty of Arts and Science rules](#). (<https://artsci.calendar.utoronto.ca/term-work-tests-and-final-exams>)

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## Table of Contents:

- [Contact Information](#)
  - [Prerequisites](#)
  - [Teaching Style](#)
  - [Marking Scheme](#)
  - [Getting Help](#)
  - [Creating a Positive Learning Environment](#)
  - [Resources](#)
  - [Working with a Partner](#)
  - [Course Policies](#)
  - [Special Consideration](#)
  - [Remark Requests](#)
  - [Academic Integrity](#)
  - [Accessibility Needs](#)
- 

## Contact Information

<p><b>Instructor</b></p>	<p>Diane Horton</p>
<p><b>Lectures</b></p>	<p>L0101/L0102/L2001:  Tuesdays 2-3pm in <a href="https://map.utoronto.ca/?id=1809#!ct/45469?m/494495?s/">MY 150</a>  <a href="https://map.utoronto.ca/?id=1809#!ct/45469?m/494495?s/">(https://map.utoronto.ca/?id=1809#!ct/45469?m/494495?s/)</a></p> <p>Thursdays 1-3pm in <a href="https://map.utoronto.ca/?id=1809#!ct/45469?m/494495?s/">MY150</a>  <a href="https://map.utoronto.ca/?id=1809#!ct/45469?m/494495?s/">(https://map.utoronto.ca/?id=1809#!ct/45469?m/494495?s/)</a></p> <hr/> <p>L0201/L2101:  Wednesdays 1-2pm in <a href="https://map.utoronto.ca/?id=1809#!ct/45469?m/786040?s/?sbc/">AG ALGT</a>  <a href="https://map.utoronto.ca/?id=1809#!ct/45469?m/786040?s/?sbc/">(https://map.utoronto.ca/?id=1809#!ct/45469?m/786040?s/?sbc/)</a></p> <p>Fridays 1-3pm in <a href="https://map.utoronto.ca/?id=1809#!ct/45469?m/786040?s/?sbc/">AG ALGT</a>  <a href="https://map.utoronto.ca/?id=1809#!ct/45469?m/786040?s/?sbc/">(https://map.utoronto.ca/?id=1809#!ct/45469?m/786040?s/?sbc/)</a></p> <p>This is a new lecture hall (the AI Green Theatre)  in the Miles Nadal JCC  750 Spadina Avenue (NW corner of Spadina and  Bloor)</p>
<p><b>Office Hours</b></p>	<p>Beginning Monday, September 11th</p> <p>In my office, BA 4236:  Tuesdays 11am to noon  Wednesdays 10am to 11am  Fridays 10am to 11am</p> <p>The schedule may change. Please see the <a href="#">calendar</a> for the most up to date information.</p>

<b>Email</b> (for personal issues)	<a href="mailto:csc343-2023-09@cs.toronto.edu">csc343-2023-09@cs.toronto.edu</a> ( <a href="mailto:csc343-2023-09@cs.toronto.edu">mailto:csc343-2023-09@cs.toronto.edu</a> )
<b>Discussion Board</b> (for issues relevant to other students)	Piazza. Find our class sign-up link at: <a href="https://piazza.com/utoronto.ca/fall2023/csc343">https://piazza.com/utoronto.ca/fall2023/csc343</a> ( <a href="https://piazza.com/utoronto.ca/fall2023/csc343">https://piazza.com/utoronto.ca/fall2023/csc343</a> )
<b>MarkUs link</b>	<a href="https://markus.teach.cs.toronto.edu/2023-09">https://markus.teach.cs.toronto.edu/2023-09</a> ( <a href="https://markus.teach.cs.toronto.edu/2023-09">https://markus.teach.cs.toronto.edu/2023-09</a> )
<b>PCRS link</b>	<a href="https://pcrs.teach.cs.toronto.edu/csc343-2023-09">https://pcrs.teach.cs.toronto.edu/csc343-2023-09</a> ( <a href="https://pcrs.teach.cs.toronto.edu/csc343-2023-09">https://pcrs.teach.cs.toronto.edu/csc343-2023-09</a> )

## Prerequisites

If you don't have the course prerequisites listed in the [calendar entry](#) (<https://fas.calendar.utoronto.ca/course/csc343h1>), the undergraduate office will contact you with a form to complete in order to request a prerequisite waiver. Waivers are not granted automatically; a decision is made based on whether or not we feel you are well prepared to succeed in the course.

## Teaching style

CSC343 is "semi-inverted". You will learn some of the basic material on your own, outside of class time, and I will teach the more challenging material and demonstrate problem-solving in class. There will also regularly be activities that you participate in during class. Be prepared to get your gears turning! There is strong evidence, and our experience also shows, that active learning works better than passively listening to a lecture. I also think it's a lot more fun!

To prepare for these active classes, you will do weekly "prep" activities outside of class. These will involve learning some material on your own, through readings or videos, and

practising things we've learned in class. They will always culminate in some small exercises that you hand in. These weekly activities are not intended to be greatly difficult or time consuming, but they will be pivotal in your learning.

## Lecture recordings

I plan to record my L0101 lectures in MY150 and make them available on Quercus later in the week. However, I find the sound quality on classroom recordings is poor. More importantly, reading/viewing recorded materials will provide a poorer experience than the live lecture. I hope you will choose to attend in person and participate, and if you have to miss a lecture, I encourage you to pause the video and do the exercises where noted.

Course videos and materials belong to your instructor, the University, and/or other source, and are protected by copyright. In this course, you are permitted to download videos and materials for your own academic use, but you should not copy, share, or use them for any other purpose without the explicit permission of the instructor. For example, you are not permitted to post any course materials (worksheets, assignments, starter code, etc.) online.

## Marking Scheme

Lecture Preps	10%	10 Weekly lecture preparation activities (for weeks 2 to 11), each worth 1%	Due Tuesdays before 1pm The first prep is due Tue Sep 12th
Research surveys	1%	Two short surveys. The initial survey will be included in a Lecture Prep. The final survey is due on the last day of classes, Wednesday December 6th, at 11:59pm.	Worth 0.5% each

Assignment 1	8%	Relational Algebra	Wednesday, October 4th before 3pm
Midterm	15%	In person; two hours, during lecture time	Thursday, October 26th or Friday, October 27th (in your section)
Assignment 2 warm-up	2%	SQL and embedding SQL in Python	Wednesday, October 18th before 3pm
Assignment 2	10%	SQL and embedding SQL in Python	Wednesday, November 1st before 3pm
Assignment 3	8%	Database Design	Wednesday, November 29th before 3pm
Final exam	46%	<b>In person</b> ; three hours. You must get 40% or above on the final exam to pass the course; otherwise, your final course grade will be no higher than 47%.	TBA, during the final assessment period.

## Getting Help

### Discussion Board: for sharable questions

Please post your questions about the course material and assignments on our Piazza discussion board so that everyone can benefit from your questions. Feel free to answer other students' questions! Helping someone else learn is one of the most effective ways of deeply learning a subject.

We will monitor the discussion board regularly and answer as many questions as we can. It may take longer near due dates, so try to start assignments early in case you have questions.

## Course email account: for personal matters

Please use the course email account, [csc343-2023-09@cs.toronto.edu](mailto:csc343-2023-09@cs.toronto.edu) (<mailto:csc343-2023-09@cs.toronto.edu>), for personal matters such as missing course work due to illness.

## Instructor office hours: for everything

I welcome all kinds of conversations at office hours. For example, if you are stuck on a problem and unable to make progress, or confused about a concept in the course, or having difficulty working effectively with your partner, please come to see me. I'd love to help!

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## Creating a Positive Learning Environment

We are committed to creating a respectful learning environment in computer science courses for all students and expect that you will adhere to the University of Toronto [Code of Student Conduct](http://www.viceprovoststudents.utoronto.ca/publicationsandpolicies/codeofstudentconduct.htm) (<http://www.viceprovoststudents.utoronto.ca/publicationsandpolicies/codeofstudentconduct.htm>). Please be mindful of how your behaviour influences the atmosphere in our learning community, not just in classes, but also in office hours, on our discussion board, and anywhere that you interact with other students and members of the department.

The University of Toronto is committed to equity, human rights and respect for diversity. All members of the learning environment in this course should strive to create an atmosphere of mutual respect where all members of our community can express themselves, engage with each other, and respect one another's differences. U of T does not condone discrimination or harassment against any persons or communities.

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## Resources

These two resources are suggested to support your learning in the course:

- The textbook "A First Course in Database Systems" by Jeffrey D. Ullman and Jennifer Widom, 2008 (3rd Edition), available online from the [publisher](#)

(<http://www.mypearsonstore.com/bookstore/product.asp?isbn=013600637X&xid=PSED>) , [Chapters Indigo \(http://www.chapters.indigo.ca/home/search/?keywords=A%20First%20Course%20in%20Database%20Systems&pageSize=12\)](http://www.chapters.indigo.ca/home/search/?keywords=A%20First%20Course%20in%20Database%20Systems&pageSize=12) , or [Amazon \(http://www.amazon.ca/s/ref=nb\\_sb\\_ss\\_i\\_0\\_34?url=search-alias%3Daps&field-keywords=a+first+course+in+database+systems&x=0&y=0&prefix=a+first+course+in+database+systems\)](http://www.amazon.ca/s/ref=nb_sb_ss_i_0_34?url=search-alias%3Daps&field-keywords=a+first+course+in+database+systems&x=0&y=0&prefix=a+first+course+in+database+systems) . It is also available on two-hour loan at the Engineering Library in the Sandford Fleming Building. It may or may not be available at the UofT Bookstore at this time.

- Jennifer Widom at Stanford University has several free mini-courses [available on edX \(https://www.edx.org/school/stanfordonline\)](https://www.edx.org/school/stanfordonline) , but in a somewhat synchronous mode that starts September 2nd.

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## Working with a Partner

**Preps:** All weekly preps must be done individually.

**Assignments:** For the assignments, you have the option of partnering with one other CSC343 student, and I encourage you to do so. You may choose your own partner, and it need not be the same person for each assignment. Your partner may come from any section of the course. Both partners will receive the same mark for joint assignments. Once you begin working on an assignment, you may not dissolve your partnership without my permission. The deadline for requesting this is 3 days before the original assignment due date.

If you choose to work with a partner for an assignment, you must declare your group on MarkUs. You should declare it as soon as your group is formed, and certainly well before the deadline. Groups cannot be declared once the original assignment due date has passed. Please note that even if you are working alone on an assignment, you must still declare your "group" on MarkUs. Email the course account ([csc343-2023-09@cs.toronto.edu \(mailto:csc343-2023-09@cs.toronto.edu\)](mailto:csc343-2023-09@cs.toronto.edu)) for help if you're having trouble forming a group.

**Choose well:** Before partnering, have a conversation about expectations and work habits. What mark are you aiming for on this assignment? Do you like to start early or are you a procrastinator? Do you typically work late at night or during business hours? Sharing your answers and working out any differences is probably more important than comparing your

technical backgrounds.

**Working together:** Working with a partner has the potential to lighten your workload and enhance your learning or to increase your workload and impair your learning, depending on how you work together. Remember that you are responsible for learning the course material underlying all parts of the assignments. Just dividing up the work can result in a less successful assignment, as you won't benefit from your partner's insights, and could lead to disaster on the tests, as you won't have become proficient in all aspects of the course. You will have the most success if you truly work together.

**If a partner doesn't meet a commitment:** Don't avoid talking with your partner in these situations. It doesn't have to be a conflict; you can start by asking what's happening with them, and work together on a resolution. If you need help, please come talk to us. If your partner misses several commitments, be *sure* to talk with us.

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## Course Policies

### Late Assignments

There is a one-hour grace period for assignments. You may submit at any time during this period without penalty.

We recognize that unexpected problems, illness, and disability-related barriers sometimes make it difficult to submit assignments on time. For this reason, we are adopting a policy of radical generosity with respect to assignment submissions. You may request an extension of up to **four days** for an assignment submission by completing a form (link to be provided). Notes:

- **MarkUs:** After making this request, the extension will automatically appear on MarkUs within two business days; please do not contact us if you don't see it right away.
- **Partner:** If you are working with a partner
  - You must create your group on MarkUs and make sure your partner has been invited before requesting the extension.
  - Only one partner needs to request the extension.
  - You may not dissolve your partnership after requesting an extension without contacting the course email address first.
- **Deadline to request extension:** You may request this extension up to 4 days after the



assignment due date. However, note that the extended time will be relative to the assignment deadline, not relative to when you request the extension.

- **Asking for a shorter then a longer extension:** If you initially request a shorter (e.g., 2-day extension), you can fill out the form again to request a longer extension. We will always use the most recent extension request you have submitted (for a total extension of up to 4 days after the assignment due date).
- **If you miss your extended deadline:** Any work submitted beyond whatever extension you received plus the one-hour grace period (even 1 second beyond) will not be graded.
- **Using this policy more than once:** You may make use of this policy on as many assignments as you require. However, if you submit extension requests for more than one assignment, we may reach out to connect you with campus supports to help you stay on track in the future (e.g. your college registrar).
- **If you get an extension and then fall ill:** If a student has been granted an extension of 4 days and then becomes ill on the extended deadline, no further extension will be given unless the student has been ill for more than 4 days and further documentation is provided.

While it may seem like a "no-brainer" to always request a four-day extension for each assignment, we strongly recommend not making this request lightly. We have designed your assignments so that they can be completed by their actual deadlines, and we believe that for the vast majority of students, meeting these deadlines is the best way to keep up with the course material. Please do not use this policy to simply shift the original deadline in your mind.

## Longer Extensions

Students who are registered with Accessibility services are free to use this policy. However, if you would like to request more than 4 days of extra time to complete an assignment, please reach out to the course email address before the original assignment deadline.

If you find yourself in a serious medical or emergency situation where a 4-day extension will not be sufficient, please email the course account before the original assignment due date. We may require further documentation or confirmation from your college registrar, and further extensions are not always granted. So, you should submit any partial work that you've completed before the original assignment due date. Please also complete an

Absence Declaration on ACORN when appropriate, and send the notification to the course email address.

## Late Preps

For weekly preps, **no late submissions will be graded**, as their purpose is to prepare everyone for lecture.

## Missed Midterm

You may request special consideration if you missed the midterm due to illness or other extenuating circumstances by submitting the special consideration form (link to be provided). You will be asked to provide additional information, and this will be reviewed by the course staff. You should also complete an Absence Declaration on ACORN when appropriate, and send the notification to the course email address. Special consideration is NOT always granted. If it is granted, the weight of your midterm will be transferred to the final exam.

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## Special Consideration

If you need to request special consideration (as described above), you will be required to affirm that you are abiding by the [Code of Behaviour on Academic Matters \(http://www.governingcouncil.utoronto.ca/Assets/Governing+Council+Digital+Assets/Policies/PDF/ppjun011995.pdf\)](http://www.governingcouncil.utoronto.ca/Assets/Governing+Council+Digital+Assets/Policies/PDF/ppjun011995.pdf), in particular that it is an offence

*to engage in any form of cheating, academic dishonesty or misconduct, fraud or misrepresentation not herein otherwise described, in order to obtain academic credit or other academic advantage of any kind.*

That is, you must confirm that you are truly experiencing an emergency, and acknowledge that to falsely claim so is an academic offence. Applying does not guarantee that you will be granted special consideration.

Special Consideration Request Form: link to be provided. Please carefully read the policy above on late work before submitting a request.

**IMPORTANT:** Submit an request for special consideration as soon as possible. It is easier

to resolve situations earlier rather than later. If your emergency will affect your ability to complete coursework for more than a few days, or in multiple courses, we recommend you also talk to your Registrar -- they are very helpful in such situations.

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## Remark Requests

Mistakes sometimes happen when marking. If you feel there is an issue with the marking of your assignment or test, you may request that it be remarked. Remark requests are accepted for two weeks after the item is returned, and are submitted via MarkUs. You must give a specific reason for a remark request, referring to a possible error or omission by the marker. Remark requests without a specific reason will not be accepted.

We will respond to remark requests before the final grades are submitted at the end of the term. We aim to do these sooner, but it is not always possible.

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## Academic Integrity

The work you submit must be your own. It is an academic offence to copy someone else's work. This includes their code, their words, and even their ideas. Whether you copy or let someone else copy, it is an offence. Academic offences are taken very seriously, and penalties can go well beyond 0 on the piece of work.

At the same time, I want you to benefit from working with other students. You are welcome to work with other csc343 students on learning and understanding course material. For example, you may work through examples that help you understand course material or a new technology, or help each other configure your system to run a supporting piece of software. You are also welcome to work with other csc343 students on **learning and understanding** related to assignments, including:

- Understanding the handout
- Understanding the architecture of starter code
- Understanding specifications for a query, update or method
- Getting more familiar with Python (some Engineering students may not have learned this language)
- Learning an unfamiliar library (we'll be using `psycopg2`)

- Making connections to other course material or concepts
- Understanding error messages (without looking at the code)

However, other than between partners, *collaboration on assignment solutions is strictly forbidden*. For example, these are not allowed:

- Working out the steps of a solution together
- Drafting code together
- Understanding solution code generated by generative AI
- Improving code quality
- Debugging (i.e., diagnosing the source of an error message or incorrect results)
- Fixing code (i.e., changing the code to eliminate an error message or produce correct results)

The most certain way to protect yourself is not to discuss assignment solutions or the ideas behind them with students other than your partner. Certainly you must not let others see your assignment solutions, even in draft form, or even your rough work.

Be cautious with private tutors, as some cross the line and tell students the answers - and they routinely engage with multiple students who all end up submitting nearly identical work.

## Using generative AI

In this course, you may use generative artificial intelligence (AI) tools, including ChatGPT and GitHub Copilot, as learning aids and to help complete assignments. I strongly recommend that you focus your use of generative AI on the learning and understanding side. If you use generative AI at all, keep in mind that it may produce content which is incorrect or misleading, or inconsistent with the expectations of this course. In addition, these tools have not been vetted by the University of Toronto and might not meet University standards for privacy, intellectual property, security, accessibility, and records retention. I encourage you to review the privacy policy of any generative AI tool you plan to use, in particular, to understand how your interactions will be stored and used by the tool in the future.

If you use generative AI more specifically to help you *so/lve* course work, please keep in mind these additional, important points:

- I caution you to not rely heavily on these tools to complete your coursework. Instead,

we recommend treating generative AI as a supplementary tool only for exploration or for drafting content. Ultimately, you (and not any AI tool) are responsible for your own learning in this course, and for all the work you submit for credit. It is your responsibility to critically evaluate the content generated, and to regularly assess your own learning independent of generative AI tools. Over reliance on generative AI may give you a false sense of how much you've actually learned, which can lead to poor performance on the midterm test or final exam, in later courses, or in future work or studies after graduation.

- These tools may be subject to service interruptions, software modifications, and pricing changes during the semester. This is not sufficient reason to request an assignment extension.
- You will not be permitted to use generative AI on the midterm or final exam.

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## Accessibility Accommodations











The University provides academic accommodations for students with disabilities in accordance with the terms of the Ontario Human Rights Code. This occurs through a collaborative process that acknowledges a collective obligation to develop an accessible learning environment that both meets the needs of students and preserves the essential academic requirements of the University's courses and programs.










Students with diverse learning styles and needs are welcome in this course. If you have a disability that may require accommodations, please feel free to [contact us](mailto:csc343-2022-09@cs.toronto.edu) (<mailto:csc343-2022-09@cs.toronto.edu>) and/or the St George Campus [Accessibility Services](https://studentlife.utoronto.ca/department/accessibility-services/) (<https://studentlife.utoronto.ca/department/accessibility-services/>) office.



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## Course Summary:

Date	Details	Due
Tue Oct 18, 2022	 <a href="https://q.utoronto.ca/courses/315097/assignments/1096535">Lecture Prep for Week 7</a> <a href="https://q.utoronto.ca/courses/315097/assignments/1096535">https://q.utoronto.ca/courses/315097/assignments/1096535</a>	due by 1pm

Date	Details	Due
Tue Oct 25, 2022	 <a href="https://q.utoronto.ca/courses/315097/assignments/1096537">Lecture Prep for Week 8</a> ( <a href="https://q.utoronto.ca/courses/315097/assignments/1096537">https://q.utoronto.ca/courses/315097/assignments/1096537</a> )	due by 1pm
Tue Nov 1, 2022	 <a href="https://q.utoronto.ca/courses/315097/assignments/1096539">Lecture Prep for Week 9</a> ( <a href="https://q.utoronto.ca/courses/315097/assignments/1096539">https://q.utoronto.ca/courses/315097/assignments/1096539</a> )	due by 1pm
Tue Nov 15, 2022	 <a href="https://q.utoronto.ca/courses/315097/assignments/1096536">Lecture Prep for Week 10</a> ( <a href="https://q.utoronto.ca/courses/315097/assignments/1096536">https://q.utoronto.ca/courses/315097/assignments/1096536</a> )	due by 1pm
Tue Nov 22, 2022	 <a href="https://q.utoronto.ca/courses/315097/assignments/1096538">Lecture Prep for Week 11</a> ( <a href="https://q.utoronto.ca/courses/315097/assignments/1096538">https://q.utoronto.ca/courses/315097/assignments/1096538</a> )	due by 1pm
Tue Sep 12, 2023	 <a href="https://q.utoronto.ca/courses/315097/assignments/1096549">Prep 2</a> ( <a href="https://q.utoronto.ca/courses/315097/assignments/1096549">https://q.utoronto.ca/courses/315097/assignments/1096549</a> )	due by 1pm
Tue Sep 19, 2023	 <a href="https://q.utoronto.ca/courses/315097/assignments/1096550">Prep 3</a> ( <a href="https://q.utoronto.ca/courses/315097/assignments/1096550">https://q.utoronto.ca/courses/315097/assignments/1096550</a> )	due by 1pm
Tue Sep 26, 2023	 <a href="https://q.utoronto.ca/courses/315097/assignments/1096551">Prep 4</a> ( <a href="https://q.utoronto.ca/courses/315097/assignments/1096551">https://q.utoronto.ca/courses/315097/assignments/1096551</a> )	due by 1pm
Tue Oct 3, 2023	 <a href="https://q.utoronto.ca/courses/315097/assignments/1096552">Prep 5</a> ( <a href="https://q.utoronto.ca/courses/315097/assignments/1096552">https://q.utoronto.ca/courses/315097/assignments/1096552</a> )	due by 1pm
Wed Oct 4, 2023	 <a href="https://q.utoronto.ca/courses/315097/assignments/1096540">Assignment 1</a> ( <a href="https://q.utoronto.ca/courses/315097/assignments/1096540">https://q.utoronto.ca/courses/315097/assignments/1096540</a> )	due by 3pm
Tue Oct 10, 2023	 <a href="https://q.utoronto.ca/courses/315097/assignments/1096553">Prep 6</a> ( <a href="https://q.utoronto.ca/courses/315097/assignments/1096553">https://q.utoronto.ca/courses/315097/assignments/1096553</a> )	due by 1pm

Date	Details	Due
Tue Oct 17, 2023	 <a href="https://q.utoronto.ca/courses/315097/assignments/1096554">Prep 7 (https://q.utoronto.ca/courses/315097/assignments/1096554)</a>	due by 1pm
Wed Oct 18, 2023	 <a href="https://q.utoronto.ca/courses/315097/assignments/1141250">Assignment 2 warmup (https://q.utoronto.ca/courses/315097/assignments/1141250)</a>	due by 3pm
Tue Oct 24, 2023	 <a href="https://q.utoronto.ca/courses/315097/assignments/1096555">Prep 8 (https://q.utoronto.ca/courses/315097/assignments/1096555)</a>	due by 1pm
Tue Oct 31, 2023	 <a href="https://q.utoronto.ca/courses/315097/assignments/1096556">Prep 9 (https://q.utoronto.ca/courses/315097/assignments/1096556)</a>	due by 1pm
Wed Nov 1, 2023	 <a href="https://q.utoronto.ca/courses/315097/assignments/1096541">Assignment 2 (https://q.utoronto.ca/courses/315097/assignments/1096541)</a>	due by 3pm
Tue Nov 14, 2023	 <a href="https://q.utoronto.ca/courses/315097/assignments/1096547">Prep 10 (https://q.utoronto.ca/courses/315097/assignments/1096547)</a>	due by 1pm
Tue Nov 21, 2023	 <a href="https://q.utoronto.ca/courses/315097/assignments/1096548">Prep 11 (https://q.utoronto.ca/courses/315097/assignments/1096548)</a>	due by 1pm
Wed Nov 29, 2023	 <a href="https://q.utoronto.ca/courses/315097/assignments/1096542">Assignment 3 (https://q.utoronto.ca/courses/315097/assignments/1096542)</a>	due by 3pm
Wed Dec 6, 2023	 <a href="https://q.utoronto.ca/courses/315097/assignments/1096544">Final Survey (https://q.utoronto.ca/courses/315097/assignments/1096544)</a>	due by 11:59pm
	 <a href="https://q.utoronto.ca/courses/315097/assignments/1096543">Final Exam (https://q.utoronto.ca/courses/315097/assignments/1096543)</a>	

Date	Details	Due
	 <a href="https://q.utoronto.ca/courses/315097/assignments/1096545">Initial Survey</a> ( <a href="https://q.utoronto.ca/courses/315097/assignments/1096545">https://q.utoronto.ca/courses/315097/assignments/1096545</a> )	
	 <a href="https://q.utoronto.ca/courses/315097/assignments/1096546">Midterm Test</a> ( <a href="https://q.utoronto.ca/courses/315097/assignments/1096546">https://q.utoronto.ca/courses/315097/assignments/1096546</a> )	