Syllabus : Data Management for Computational Science

POINT LOMA NAZARENE UNIVERSITY	**Mathematical, Information, and Computer Sciences** **CSC 3022** **Units: 2**
Fall 2020 | August 17-December 3	

Instructor: Dr. Lori Carter, Ph.D.
Phone: 619.849.2352
Email: lcarter@pointloma.edu

Dr. Carter Office Hours: **During the following hours I will be closely monitoring my email and will respond within minutes. You can also request a Zoom meeting during these times. Feel free to email me at other times, but there may be a greater lag time in my response.**

MW 1:30-2:30

Tuesday: 11-12

Thursday: 11:30-1:00

Thursday: 3:30-4:30

PLNU Mission

To Teach ~ To Shape ~ To Send

Point Loma Nazarene University exists to provide higher education in a vital Christian community where minds are engaged and challenged, character is modeled and formed, and service is an expression of faith. Being of Wesleyan heritage, we strive to be a learning community where grace is foundational, truth is pursued, and holiness is a way of life.

Department Mission

The Mathematical, Information, and Computer Sciences department at Point Loma Nazarene University is committed to maintaining a curriculum that provides its students with the tools to be productive, the passion to continue learning, and Christian perspectives to provide a basis for making sound value judgments.

COURSE DESCRIPTION

An introduction to data management in the context of scientific research. Students will explore the data storage and manipulation requirements for biology, chemistry, and physics and learn to choose the correct data management tool for a given situation. Tools include Microsoft Excel (with VBA), Visual Basic, and Microsoft Access. Students will learn to design, create, and query relational databases using the SQLite DBMS and SQL query language.

In addition, students will gain experience with data cleaning, HTML, and JavaScript. Students will be exposed to ethical dilemmas which they might encounter in future work along with ways to uncover and deal with them.

COURSE ORGANIZATION (Online synchronous/asynchronous)

Synchronous class time (Tuesday) will be used for topic introductions, answering questions, and quizzes/tests. The exception is October 1 (a Thursday), which is the midterm for CSC 3022. The midterm will be held synchronously.
Asynchronous online activities will consist of tutorials, videos, group work, and labs.

Slides: All slides used either synchonously or in videos will be available on Canvas

COURSE LEARNING OUTCOMES

1. Students will understand how data is used in their specific scientific field

2. Students will be able to recommend the correct data management tool (spreadsheet, flat file, database, scripting language, webpage, or other) to use for a particular scientific application
3. Students will be able to build a basic RDBMS and create basic queries
4. Students will gain practice loading and configuring software
5. Students will be able to recognize unclean data and make informed choices on how to clean it
6. Students will consider ethical issues with data management

REQUIRED TEXTS AND RECOMMENDED STUDY RESOURCES

None

COURSE CREDIT HOUR INFORMATION

In the interest of providing sufficient time to accomplish the stated Course Learning Outcomes, this class meets the PLNU credit hour policy for a 2 unit course delivered over 15 weeks. Specific details about how the class meets the credit hour requirement can be provided upon request. (Based on 37.5 hours of student engagement per credit hour.)

Distribution of Student Learning Hours

Assignment	Hours
Online tutorials and videos	15
Reading: Papers and Notes	3
Lectures	10
Labs, Lab assignments and other written assignments	30
Written Exams and quizzes including preparation	12
Collaborations and Discussions	5-10
Total	75-80

ASSESSMENT AND GRADING

Graded Components

Weekly comments/questions/answers: A discussion thread will be available for you to make comments about something interesting that you discovered in the process of completing the week's lab, a question about that lab, or an answer to someone else's question. There is a possibility of 10

points total for these comments/questions/answers. You will get a point for each week that you make a meaningful contribution. By meaningful I mean something that took some thought. It is possible to get some extra credit (more than 10 points) here if you contribute every week. Posts must be made by Monday at 8PM to get credit for the week.

Group Collaboration: You will be assigned to a group that connects weekly throughout the semester. Groups will likely be reassigned after the midterm. You may connect via a Google Doc, some kind of video chat, phone, or another method that you choose. Each week you will have a task to complete as a group, but it might also be a time to study together, ask questions of each other, or exchange ideas. Keep in mind that you still must complete your work individually unless otherwise stated.

Labs, classwork, and homework: Labs and homework are to be completed on an individual basis unless otherwise stated. Points for lab assignments that look too similar will be divided between the participants. When group work is allowed, all group members must be present. Most work will be turned in on Canvas, and **late labs, classwork, and homework are not accepted.** Partial credit can be awarded on incomplete work turned in on time. Students will receive credit for classwork only if they are present, or are absent for health reasons. The 2 lowest lab, classwork, or homework grades will be dropped.

Quizzes: There will be 2 synchronous quizzes which will together have the same weight as the midterm. They will cover only material that has not already been tested. They will be more “how-to” and terminology regarding the tools that we have covered in that section. If you will miss a quiz for a school function, you must arrange to take it in advance. If you miss a quiz without giving me prior notice, there is a good chance you will receive a zero unless, of course, there was clearly an emergency. Quizzes are currently scheduled for **September 15 and November 3.** Quizzes will not take the entire class period.

Midterm: The midterm is scheduled for **October 1** and will cover all lecture, discussion, and lab material to that point. These may have “how-to” questions on them, but will also ask questions about the appropriateness or ethical use of a particular tool. If you will miss the midterm for a school function, you must arrange to take it in advance. If you miss the exam without giving me prior notice, there is a good chance you will receive a zero unless, of course, there was clearly an emergency.

Final Exam: The cumulative final exam is scheduled for the Tuesday of finals week (12/1) at 1:30. It will contain questions similar to those on both the midterm and quizzes.

Honorlock will proctor your exams this semester. Honorlock is an online proctoring service that allows you to take your exam from the comfort of your home. You DO NOT need to create an account, download software or schedule an appointment in advance. Honorlock is available 24/7 and all that is needed is a computer, a working webcam, and a stable Internet connection.

To get started, you will need Google Chrome and to download the Honorlock Chrome Extension. You can download the extension at **www.honorlock.com/extension/install**

(http://www.honorlock.com/extension/install)

When you are ready to test, log into Canvas, go to your course, and click on your exam. Clicking "Launch Proctoring" will begin the Honorlock authentication process, where you may be asked to take a picture of yourself, show your ID, and complete a scan of your room. Honorlock will be recording your exam session by webcam as well as recording your screen. Honorlock also has an integrity algorithm that can detect search-engine use, so please do not attempt to search for answers, even if it's on a secondary device.

Good luck! Honorlock support is available 24/7/365. If you encounter any issues, you may contact them via live chat.

Grading Distribution	**Percent**
Weekly Discussion Comments/Questions	2
Group Collaboration	3
Homework, classwork and Labs	40
Quizzes	15
Midterm	15
Final Exam	25
Total	100

Grading Scale

Approximate minimal percentages required to obtain a given grade are:

Standard Grade Scale Based on Percentages					
	A	**B**	**C**	**D**	**F**
+		87- 89.9	77-79.9	67-69.9	
	93 -100	83-86.9	73-76.9	63 -66.9	0-59.9

Standard Grade Scale Based on Percentages					
	A	**B**	**C**	**D**	**F**
_	90-92.9	80-82.9	70-72.9	60-62.9	

STATE AUTHORIZATION

State authorization is a formal determination by a state that Point Loma Nazarene University is approved to conduct activities regulated by that state. In certain states outside California, Point Loma Nazarene University is not authorized to enroll online (distance education) students. If a student moves to another state after admission to the program and/or enrollment in an online course, continuation within the program and/or course will depend on whether Point Loma Nazarene University is authorized to offer distance education courses in that state. It is the student's responsibility to notify the institution of any change in his or her physical location. Refer to the map on **State Authorization (https://www.pointloma.edu/offices/office-institutional-effectiveness-research/disclosures)** to view which states allow online (distance education) outside of California.

INCOMPLETES AND LATE ASSIGNMENTS

All assignments are to be submitted/turned in by the date indicated on Canvas. Incompletes will only be assigned in extremely unusual circumstances.

PLNU COPYRIGHT POLICY

Point Loma Nazarene University, as a non-profit educational institution, is entitled by law to use materials protected by the US Copyright Act for classroom education. Any use of those materials outside the class may violate the law.

PLNU ACADEMIC HONESTY POLICY

Students should demonstrate academic honesty by doing original work and by giving appropriate credit to the ideas of others. Academic dishonesty is the act of presenting information, ideas, and/or concepts as one's own when in reality they are the results of another person's creativity and effort. A faculty member who believes a situation involving academic dishonesty has been detected may assign a failing grade for that assignment or examination, or, depending on the seriousness of the offense, for the course. Faculty should follow and students may appeal using the procedure in the university Catalog. See **Academic Policies (http://catalog.pointloma.edu/content.php?catoid=18&navoid=1278)** for definitions of kinds of academic dishonesty and for further policy information.

PLNU ACADEMIC ACCOMMODATIONS POLICY

While all students are expected to meet the minimum standards for completion of this course as established by the instructor, students with disabilities may require academic adjustments, modifications or auxiliary aids/services. At Point Loma Nazarene University (PLNU), these students are requested to register with the Disability Resource Center (DRC), located in the Bond Academic Center. (**DRC@pointloma.edu (https://mail.google.com/mail/?view=cm&fs=1&tf=1&to=DRC@pointloma.edu)** or 619-849-2486). The DRC's policies and procedures for assisting such students in the development of an appropriate academic adjustment plan (AP) allows PLNU to comply with Section 504 of the Rehabilitation Act and the Americans with Disabilities Act. Section 504 (a) prohibits discrimination against students with special needs and guarantees all qualified students equal access to and benefits of PLNU programs and activities. After the student files the required documentation, the DRC, in conjunction with the student, will develop an AP to meet that student's specific learning needs. The DRC will thereafter email the student's AP to all faculty who teach courses in which the student is enrolled each semester. The AP must be implemented in all such courses.

If students do not wish to avail themselves of some or all of the elements of their AP in a particular course, it is the responsibility of those students to notify their professor in that course. PLNU highly recommends that DRC students speak with their professors during the first two weeks of each semester about the applicability of their AP in that particular course and/or if they do not desire to take advantage of some or all of the elements of their AP in that course.

PLNU ATTENDANCE AND PARTICIPATION POLICY

Attendance is expected at each class session. In the event of an absence you are responsible for the material covered in class and the assignments given that day.

Regular and punctual attendance at all classes is considered essential to optimum academic achievement. If the student is absent from more than 10 percent of class meetings, the faculty member can file a written report which may result in de-enrollment. If the absences exceed 20 percent, the student may be de-enrolled without notice until the university drop date or, after that date, receive the appropriate grade for their work and participation. See **http://catalog.pointloma.edu/content.php?catoid=24&navoid=1581#Class_Attendance (http://catalog.pointloma.edu/content.php?catoid=24&navoid=1581#Class_Attendance)** in the Undergraduate Academic Catalog.

Because this course is a hybrid course, this is how attendance will be calculated:

Synchronous portion of the class: You must be present on time for the full class for you to be considered present in the face to face meeting (lecture or lab).

Asynchronous portion of the class: You are expected to work on material online every week. In order to get credit for being "present" in the online portion of the class each week you must complete at least one online quiz or other activity before the due date/time for that week.

If you miss 20% of the class, you can be automatically de-enrolled.

SPIRITUAL CARE

Please be aware PLNU strives to be a place where you grow as whole persons. To this end, we provide resources for our students to encounter God and grow in their Christian faith. If students have questions, a desire to meet with the chaplain or have prayer requests you can contact the **Office of Spiritual Development (https://www.pointloma.edu/offices/spiritual-development)**

Recent Announcements

Information on first day of CSC 3022
(https://canvas.pointloma.edu/courses/51754/discussion_topics/281442)
Hi! Welcome to CSC 3022 The semester is going to be different, but I have a lot of…

Posted on: Aug 12, 2020 at 12am

CSC3022-1 FA20 - Data Management For Computational Science

Jump to Today ✎ Edit

Welcome from your instructor.

COURSE SCHEDULE AND ASSIGNMENTS

The full course syllabus may be found here: **Syllabus**

Textbook: None

If you desire to see your work organized by week, you are able to access the weekly **modules.**

The table below lists our assignments and their due dates, below it are the actual assignment

Week	Topics	Assignments made	Assignment due
Weekly		Group Activity Discussion Post	Friday of current week Monday of next week
Wk 1: Aug 17-21	Introduction, Basic Excel	Syllabus Quiz Data Challenges Classwork Basic Excel Lab	8/19 8/19 8/24
Wk 2: Aug 24-28	Intermediate Excel, Basic VBA	Excel Lab 2 VBA lab 1	8/26 8/31
Wk 3: Aug 31-Sept 4	Intermediate VBA	VBA lab 2: Teen Birth data	9/7
Wk 4: Sept 7-11	Intermediate VBA	Intermediate VBA tutorial Group VBA Project	9/9 9/18
Wk 5: Sept 14-18	VBA Quiz HTML, Web, Networking	VBA Quiz – in class HTML tutorial	9/15 9/21
Wk 6: Sept 21-25	VBA project presentations JavaScript Ethics in Data Management	Presentations Finish web page Dark Patterns Module	9/22 9/25 9/28
Wk 7: Sept 28-Oct 2	Ethics, Exam	Midterm/Final(3021)	10/1
Wk 8: Oct 5-9	Access, relational databases	Access labs	10/12
Wk 9: Oct 12-16	More on databases Basic SQL	Access lab SQLite lab 1	10/14 10/19
Wk 10: Oct 19-23	Intermediate SQL	SQLite lab 2	10/26
Wk 11: Oct 26-30	Intermediate SQL	SQLite lab 3	11/2
Wk 12: Nov 2-6	SQL Quiz Joins, referential Integrity Data cleaning	SQL quiz – in class SQL join lab	11/3 11/9
Wk 13: Nov 9-13	Data cleaning	In-class exercises Group exercises part 2	11/11 11/16
Wk 14: Nov 16-20	Discuss results of data cleaning exercises Introduce ethics in data cleaning	Ethics assignment	11/24
Wk 15: Nov 23-27	Discuss ethics module Q&A for Final Exam	Study for final exam	12/1
Wk 16: Nov 30-Dec 3	Final exam 1:30		12/1

PDF of Schedule

Course Summary:

Date	Details	
Mon Aug 17, 2020	Week 1: Course Orientation	to do: 11:59am
	Week 1: Overview	to do: 12:30pm
	Home Page | Quick Links to Resources	to do: 11:59pm

Date	Details	
	Meet Your Instructor	to do: 11:59pm
Tue Aug 18, 2020	CSC 3022 Tuesday meetings (https://canvas.pointloma.edu/calendar?event_id=60715&include_contexts=course_51754)	12pm to 1:30pm
	Week 1: Tuesday Zoom Meeting	to do: 12:25pm
Wed Aug 19, 2020	Syllabus Quiz (https://canvas.pointloma.edu/courses/51754/assignments/522196)	due by 11:59pm
	Week 1: Collaborative Activity: Data Challenges Classwork (https://canvas.pointloma.edu/courses/51754/assignments/507167)	due by 11:59pm
Fri Aug 21, 2020	Week 1: Collaborative Activity (e.g. paired warm-up questions, working a joint problem or some other small group activity) (https://canvas.pointloma.edu/courses/51754/assignments/506773)	due by 11:59pm
Mon Aug 24, 2020	Week 1: Discussion: Comments/Questions/Answers	to do: 8pm
	Week 1: Shared Comments/Questions	to do: 10pm
	Week 2: Overview	to do: 11:59pm
	Week 1: Homework - Basic Excel Lab (https://canvas.pointloma.edu/courses/51754/assignments/506774)	due by 11:59pm
Tue Aug 25, 2020	CSC 3022 Tuesday meetings (https://canvas.pointloma.edu/calendar?event_id=60716&include_contexts=course_51754)	12pm to 1:30pm
	Week 2: Tuesday Zoom Meeting	to do: 12:25pm
Wed Aug 26, 2020	Week 2: Homework - Excel Lab 2 (https://canvas.pointloma.edu/courses/51754/assignments/506776)	due by 11:59pm

Date	Details	
Fri Aug 28, 2020	Week 2: Collaborative Activity : Get to know your group (https://canvas.pointloma.edu/courses/51754/assignments/506775)	due by 11:59pm
Mon Aug 31, 2020	Week 2: Discussion: Comments/Questions/Answers	to do: 8pm
	Week 3: Discussion: Comments/Questions/Answers	to do: 8pm
	Week 2: Shared Comments/Questions	to do: 10pm
	Week 3: Overview	to do: 11:59pm
	Week 2: VBA lab 1 (https://canvas.pointloma.edu/courses/51754/assignments/522000)	due by 11:59pm
Tue Sep 1, 2020	CSC 3022 Tuesday meetings (https://canvas.pointloma.edu/calendar?event_id=60717&include_contexts=course_51754)	12pm to 1:30pm
	Week 3: Tuesday Zoom Meeting	to do: 12:25pm
Thu Sep 3, 2020	Week 3: Homework and tutorials	to do: 11:59pm
Fri Sep 4, 2020	Week 3: Collaborative Activity: discuss algorithm for Teen Births lab (https://canvas.pointloma.edu/courses/51754/assignments/506777)	due by 11:59pm
Mon Sep 7, 2020	Week 3: Discussion: Comments/Questions/Answers	to do: 8pm
	VBA tutorial quiz (https://canvas.pointloma.edu/courses/51754/assignments/557609)	due by 11:59pm
	Week 4: Overview	to do: 11:59pm
	Week 4: tutorials and homework	to do: 11:59pm

Date	Details	
	Week 3: Homework: Teen Births Lab (https://canvas.pointloma.edu/courses/51754/assignments/506778)	due by 11:59pm
Tue Sep 8, 2020	CSC 3022 Tuesday meetings (https://canvas.pointloma.edu/calendar?event_id=60718&include_contexts=course_51754)	12pm to 1:30pm
	Week 4: Tuesday Zoom Meeting	to do: 12:25pm
Fri Sep 11, 2020	Week 4: Collaborative Activity: Work on Group VBA Project (https://canvas.pointloma.edu/courses/51754/assignments/506779)	due by 11:59pm
Mon Sep 14, 2020	Honorlock check prior to first quiz	to do: 12pm
	Week 4: Discussion: Comments/Questions/Answers	to do: 8pm
	Week 5: Overview	to do: 11:59pm
	Week 5: Tutorials and homework	to do: 11:59pm
	Honorlock test quiz (https://canvas.pointloma.edu/courses/51754/assignments/533235)	due by 11:59pm
Tue Sep 15, 2020	CSC 3022 Tuesday meetings (https://canvas.pointloma.edu/calendar?event_id=60719&include_contexts=course_51754)	12pm to 1:30pm
	Week 5: Tuesday Zoom Meeting	to do: 12:25pm
	VBA quiz (https://canvas.pointloma.edu/courses/51754/assignments/543297)	due by 1pm
Fri Sep 18, 2020	Week 4: Homework (https://canvas.pointloma.edu/courses/51754/assignments/506780)	due by 11:59pm

Date	Details	
	Week 5: Collaborative Activity (e.g. paired warm-up questions, working a joint problem or some other small group activity) Copy (https://canvas.pointloma.edu/courses/51754/assignments/543300)	due by 11:59pm
	Week 5: Collaborative Activity: Continued discussion on VBA project (https://canvas.pointloma.edu/courses/51754/assignments/506781)	due by 11:59pm
Mon Sep 21, 2020	Week 5: Discussion: Comments/Questions/Answers	to do: 8pm
	Week 6: Overview	to do: 11:59pm
	Week 6: Tutorials and homework	to do: 11:59pm
	Week 4: Homework: VBA project (https://canvas.pointloma.edu/courses/51754/assignments/543301)	due by 11:59pm
	Week 5: Homework: VBA project (https://canvas.pointloma.edu/courses/51754/assignments/506782)	due by 11:59pm
Tue Sep 22, 2020	CSC 3022 Tuesday meetings (https://canvas.pointloma.edu/calendar?event_id=60720&include_contexts=course_51754)	12pm to 1:30pm
	Week 6: Tuesday Zoom Meeting	to do: 12:25pm
Fri Sep 25, 2020	Exam 1 (https://canvas.pointloma.edu/courses/51754/assignments/506759)	due by 11:59pm
	Week 6: Collaborative Activity: Discuss the ethics module (https://canvas.pointloma.edu/courses/51754/assignments/506783)	due by 11:59pm
Mon Sep 28, 2020	Week 6: Discussion: Comments/Questions/Answers	to do: 8pm
	Week 7: Overview	to do: 11:59pm

Date	Details	
	Week 7: Videos, Links and Handouts	to do: 11:59pm
	Week 6: Homework: Web page (https://canvas.pointloma.edu/courses/51754/assignments/506784)	due by 11:59pm
Tue Sep 29, 2020	CSC 3022 Tuesday meetings (https://canvas.pointloma.edu/calendar?event_id=60721&include_contexts=course_51754)	12pm to 1:30pm
	Week 7: Tuesday Zoom Meeting	to do: 12:25pm
Fri Oct 2, 2020	Week 7: Collaborative Activity: exam preparation (https://canvas.pointloma.edu/courses/51754/assignments/506785)	due by 11:59pm
Mon Oct 5, 2020	Week 7: Discussion: Comments/Questions/Answers	to do: 8pm
	Week 8: Overview	to do: 11:59pm
	Week 8: Videos, Links and Handouts	to do: 11:59pm
	Week 6 Overview Copy	to do: 11:59pm
Tue Oct 6, 2020	CSC 3022 Tuesday meetings (https://canvas.pointloma.edu/calendar?event_id=60722&include_contexts=course_51754)	12pm to 1:30pm
	Week 8: Tuesday Zoom Meeting	to do: 12:25pm
Fri Oct 9, 2020	Week 7: Homework (https://canvas.pointloma.edu/courses/51754/assignments/506786)	due by 11:59pm
	Week 8: Collaborative Activity :compare tools (https://canvas.pointloma.edu/courses/51754/assignments/506787)	due by 11:59pm
Mon Oct 12, 2020	Week 8: Discussion: Comments/Questions/Answers	to do: 8pm

Date	Details	
	Week 9: Overview	to do: 11:59pm
	Week 9: Videos, Links and Handouts	to do: 11:59pm
Tue Oct 13, 2020	CSC 3022 Tuesday meetings (https://canvas.pointloma.edu/calendar?event_id=60723&include_contexts=course_51754)	12pm to 1:30pm
	Week 9: Tuesday Zoom Meeting	to do: 12:25pm
Fri Oct 16, 2020	Week 8: Homework (https://canvas.pointloma.edu/courses/51754/assignments/506788)	due by 11:59pm
	Week 9: Collaborative Activity: SQLite (https://canvas.pointloma.edu/courses/51754/assignments/506789)	due by 11:59pm
Mon Oct 19, 2020	Week 9: Discussion: Comments/Questions/Answers	to do: 8pm
	Week 10: Overview	to do: 11:59pm
	Week 10: Videos, Links and Handouts	to do: 11:59pm
Tue Oct 20, 2020	CSC 3022 Tuesday meetings (https://canvas.pointloma.edu/calendar?event_id=60724&include_contexts=course_51754)	12pm to 1:30pm
	Week 10: Tuesday Zoom Meeting	to do: 12:25pm
Fri Oct 23, 2020	Week 10: Collaborative Activity: compare DBMS systems (https://canvas.pointloma.edu/courses/51754/assignments/506762)	due by 11:59pm
	Week 9: Homework (https://canvas.pointloma.edu/courses/51754/assignments/506790)	due by 11:59pm
Mon Oct 26, 2020	Week 10: Discussion: Comments/Questions/Answers	to do: 8pm

Date	Details	
	Week 11: Overview	to do: 11:59pm
	Week 11: Videos, Links and Handouts	to do: 11:59pm
Tue Oct 27, 2020	CSC 3022 Tuesday meetings (https://canvas.pointloma.edu/calendar?event_id=60725&include_contexts=course_51754)	12pm to 1:30pm
	Week 11: Tuesday Zoom Meeting	to do: 12:25pm
Fri Oct 30, 2020	Week 10: Homework (https://canvas.pointloma.edu/courses/51754/assignments/506763)	due by 11:59pm
	Week 11: Collaborative Activity: compare DBMS with spreadsheets (https://canvas.pointloma.edu/courses/51754/assignments/506764)	due by 11:59pm
Mon Nov 2, 2020	Week 11: Discussion: Comments/Questions/Answers	to do: 8pm
	Week 12: Overview	to do: 11:59pm
	Week 12: Videos, Links and Handouts	to do: 11:59pm
Tue Nov 3, 2020	CSC 3022 Tuesday meetings (https://canvas.pointloma.edu/calendar?event_id=60726&include_contexts=course_51754)	12pm to 1:30pm
	Week 12: Tuesday Zoom Meeting	to do: 12:25pm
Fri Nov 6, 2020	Week 11: Homework (https://canvas.pointloma.edu/courses/51754/assignments/506765)	due by 11:59pm
	Week 12: Collaborative Activity: referential integrity (https://canvas.pointloma.edu/courses/51754/assignments/506766)	due by 11:59pm
Mon Nov 9, 2020	Week 12: Discussion: Comments/Questions/Answers	to do: 8pm

Date	Details	
	Week 13: Overview	to do: 11:59pm
	Week 13: Videos, Links and Handouts	to do: 11:59pm
Tue Nov 10, 2020	CSC 3022 Tuesday meetings (https://canvas.pointloma.edu/calendar?event_id=60727&include_contexts=course_51754)	12pm to 1:30pm
	Week 13: Tuesday Zoom Meeting	to do: 12:25pm
Fri Nov 13, 2020	Week 12: Homework (https://canvas.pointloma.edu/courses/51754/assignments/506767)	due by 11:59pm
	Week 13: Collaborative Activity: data cleaning exercises (https://canvas.pointloma.edu/courses/51754/assignments/506768)	due by 11:59pm
Mon Nov 16, 2020	Week 13: Discussion: Comments/Questions/Answers	to do: 8pm
	Week 14: Overview	to do: 11:59pm
	Week 14: Videos, Links and Handouts	to do: 11:59pm
Tue Nov 17, 2020	CSC 3022 Tuesday meetings (https://canvas.pointloma.edu/calendar?event_id=60728&include_contexts=course_51754)	12pm to 1:30pm
	Week 14: Tuesday Zoom Meeting	to do: 12:25pm
Fri Nov 20, 2020	Week 13: Homework (https://canvas.pointloma.edu/courses/51754/assignments/506769)	due by 11:59pm
	Week 14: Collaborative Activity: final review (https://canvas.pointloma.edu/courses/51754/assignments/506770)	due by 11:59pm
Mon Nov 23, 2020	Week 14: Discussion: Comments/Questions/Answers	to do: 8pm

Date	Details	
	Week 15: Overview - (Thanksgiving week)	to do: 11:59pm
	Week 14: Homework - Ethics Module (https://canvas.pointloma.edu/courses/51754/assignments/506771)	due by 11:59pm
Tue Nov 24, 2020	CSC 3022 Tuesday meetings (https://canvas.pointloma.edu/calendar?event_id=60729&include_contexts=course_51754)	12pm to 1:30pm
	Week 15: Tuesday Zoom Meeting	to do: 12:25pm
	Week 15: Collaborative Activity: synchronous discussion of ethics module (https://canvas.pointloma.edu/courses/51754/assignments/543806)	due by 1:30pm
Mon Nov 30, 2020	Week 15: Discussion: Comments/Questions/Answers Copy	to do: 8pm
	Week 15: Homework: study for exam	to do: 11:59pm
	Week 16: Overview - Wrap Up Week	to do: 11:59pm
Tue Dec 1, 2020	FINAL EXAM (https://canvas.pointloma.edu/courses/51754/assignments/506761)	due by 1:30pm
Fri Dec 4, 2020	Week 15: Collaborative Activity (e.g. paired warm-up questions, working a joint problem or some other small group activity) (https://canvas.pointloma.edu/courses/51754/assignments/506772)	due by 11:59pm
	Questions/Comments (https://canvas.pointloma.edu/courses/51754/assignments/522193)	