

# GEOG 5222: GIS Programming and Algorithms (COVID 19)

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## Spring 2020

### Course URL

<http://carmen.osu.edu>

### Instructors

Prof. Ningchuan Xiao | [xiao.37@osu.edu](mailto:xiao.37@osu.edu)

Mr. Yuchen Li | [li.9296@buckeyemail.osu.edu](mailto:li.9296@buckeyemail.osu.edu)

### Office hours

Day	Time	Join URL	Instructor
Monday	9:30-11 AM	<a href="https://osu.zoom.us/j/513729633">https://osu.zoom.us/j/513729633</a>	Dr. Xiao
Tuesday	1:30-2:30 PM	<a href="https://osu.zoom.us/j/545045815">https://osu.zoom.us/j/545045815</a>	Mr. Li
Wednesday	9-10:30 AM	<a href="https://osu.zoom.us/j/250951405">https://osu.zoom.us/j/250951405</a>	Mr. Li
Wednesday	9:30-11 AM	<a href="https://osu.zoom.us/j/513729633">https://osu.zoom.us/j/513729633</a>	Dr. Xiao
Thursday	11-Noon	<a href="https://osu.zoom.us/j/412982851">https://osu.zoom.us/j/412982851</a>	Dr. Xiao
Friday	9-10:30 AM	<a href="https://osu.zoom.us/j/250951405">https://osu.zoom.us/j/250951405</a>	Mr. Li

This syllabus is modified from the [original](#) in order to deal with the circumstances caused by the COVID 19 pandemic. Starting from week 12 (March 23), this course will be delivered totally online. There are no required sessions when you must be logged in to Carmen at a scheduled time. This version of the syllabus will mainly cover the changes made for online delivery. The following list outlines the changes:

- This course is organized in 4 topics and we have two remaining in this semester: spatial indexing and network algorithms. We have finished the other two topics of Python basics and geometry.
- Each topic is broken down into a number of **weekly modules**. Each weekly module includes various kinds of materials, mostly including tutorials, videos, exercises, and participation of an online discussion board.
- There is also a homework assignment required for each topic, and the assignment is typically made available in the middle of the topic and will generally be due in two weeks.
- The last module of each topic also includes a timed open-book quiz and students are required to finish the quiz before they can move on to the next topic. There is only one attempt for each quiz. So please do not start quiz unless you think you are ready. Also note the end time of quiz on carmen and plan carefully.
- There will be no final exam.
- Please see below for new policy about late submission.
- **Discussion posts & responses.** Each week, we will post 2 or more questions on the discussion board and students are required to post their responses to all of these questions. All responses are due before the beginning of the next Monday. In addition, students should also actively participate the weekly discussion board by either posting their problems or responding to other students' posts (or both).

- **Office hours.** We will hold online office hours at the times specified in the beginning of this syllabus. CarmenZoom will be used for these virtual office hours. All students and instructors at OSU have access to this service. More information about CarmenZoom can be found at [here](#). Links to these services will be provided at the carmen homepage.
- The final project guidelines will open in Week 13 (3/30).

In sum, the following five activities will be used for students to receive their final grade.

1. Exercises
2. Homework
3. Quizzes
4. Discussion posts and responses (replacing final exam)
5. Final project

Below is the definitional grading system that will be used to assign the final grade of this course. The [original syllabus](#) has more detailed explanation of this system.

Course grade	Best grades	Project	Minimum grade
A	AAA	B	C
A-	AA	B	C
B+	A	B	C
B	BBB	C	C
B-	BB	C	D
C+	B	C	D
C	CCC	C	D
C-	CC	C	E
D+	C	D	E
D		D	E
E			E

## Pace of online activities

Students should plan to devote at least the same amount of time to your online courses as you would to attending lectures on campus and completing assignments. Other good study habits, such as attending class (logging on) regularly and taking notes, are just as important in an online course as they are in a classroom. You will only achieve effective learning if you spread your participation out and work on the course materials on a daily basis or on a regular pace. It is generally very difficult, if possible at all, to finish weekly modules at the last moment.

## Policy updates

**Late assignments:** Late submissions will be accepted up to a week past the due date. One day late will incur a 10% penalty. Two days late will incur 20% penalty. Three days will incur a 30% penalty. Four days late will incur a 40% penalty. Five to seven days late will only receive 50% credit of the grade you would have received if it was submitted on

time. If you contact me ahead of time for deadline adjustments you will not incur any penalty. Please refer to Carmen for due dates.

## Technical Requirements

The minimum technical requirements for this class include the following:

Students must have a computer (laptop or desktop) to finish this class online. More specifically, your computer must be able to access Carmen online, which requires a modern web browser. In order to view the embedded images in the tutorials, you need to install FireFox on your computer. A recent version of Python 3 must also be installed. We will use video in this class, which should be supported by most modern web browsers. CarmenZoom will generally require a microphone and camera on the computer for best communication. If you do not have microphone and/or camera on your computer, we can try Carmen discussion board, but it is not guaranteed to have immediate responses.

Reliable access to the internet is essential. Internet access may not be used as an excuse for late, missing, or incomplete submissions. It is students' responsibility to ensure reliable connections.

To familiarize with CarmenZoom, please visit <https://resourcecenter.odee.osu.edu/carmenzoom/getting-started-carmenzoom>.