DePaul University

CSC 242 Section 507 and 507L

Introduction to Computer Science II Winter 2024

Lecture on Tuesdays and Thursdays 3:10pm to 4:40pm in CDM 819 Loop Campus

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Instructor Info

Instructor: Ben Harki

Office: see locations in Office Hours

Phone: email will go straight to my phone

Email: bharki@depaul.edu

Office Hours:

　4:45pm to 5:30pm Tuesdays in Daley (14 E Jackson) 200B

　12:00pm to 12:45pm Fridays over Zoom

Office Hours Appointments

I am available during office hours in person, over Zoom, and email on Tuesdays and only Zoom and email on Thursdays. Please try to let me know with a quick email if you want to attend my office hours on Tuesdays or Fridays. This will help me schedule the time a little better. If there is not enough time to fit you in we may work out a time to meet over Zoom.

You can also drop by on those days too, but you may have to wait if there are a lot of students that day.

Communication

Email is the best way to reach me, and I'll respond within 48 hours. I also aim to give you feedback on assignments within a week, and if that changes, I'll let you know.

Course Description

An intermediate course in problem solving, algorithms and programming. Programming skills are further strengthened through more complex and larger programming assignments. The assignments will also be used to introduce different Computer Science areas (e.g. a Client/Server application for the Distributed Systems area). Classes and object oriented programming are motivated and introduced.

CSC 241 is the prerequisite for this class

Required Materials

The required textbook for the course is **Introduction to Computing using Python: An Application Development Focus, Second Edition, Ljubomir Perković, John Wiley & Sons, 2015**.

Make sure you have the electronic version of the text since it contains case studies that we will be using. The electronic text has ISBN 978-1-118-89105-6. You can buy the ebook directly from the publisher if you like.

You also need to access D2L using your DePaul Credentials.

Learning Outcomes

This course is the second of a two-course sequence introducing computer science skills, including problem solving, algorithm development, recursion, and programming using Python. In this course, we will apply these skills in several application areas of computer science: graphical user interface (GUI) development, database development, and Internet and distributed computing. The concept of a class and object-oriented programming will be motivated and introduced.

After you have taken this class:
- You will strengthen your Python programming skills
- You will know how to design classes and understand the fundamental principles of object-oriented programming

- You will be able to design basic graphical user interfaces
- You will be able to apply recursion as a problem-solving and programming technique
- You will be able to write simple Internet client programs
- You will have a basic understanding of the database API

Course Materials

- All information for this course is posted to the Desire 2 Learn (D2L) site. To log onto the D2L page visit https://d2l.depaul.edu/.
  - Course notes, programming assignments, lab assignments, exam study guides, the midterm and final exam, and other course materials will be available through the D2L site.
  - There will also be links to course recordings which are useful for review.
- I will also host a simultaneous Zoom meeting for each lecture, where the link will be posted on D2L

Attendance & Participation

You must attend either the in-person course or synchronous Zoom session. Attendance is taken, but it is not a part of your overall grade.

Late Work

Each Programming Assignment or Lab will have a posted deadline, specified on the assignment. Assignments submitted by the deadline will be graded for full credit. Assignments submitted after the deadline up to 11:59PM the next day will have 15% of the points deducted. No assignments are accepted 24 hours after the deadline for any reason, including submission of the wrong file.

This does not apply to the Midterm and Exam. See Midterm and Final for Makeup Exam information.

Programming Assignments

There are 8 Programming Assignments, one nearly every week (see schedule). You can consult with the instructor and the CDM tutors on the programming assignments, but you may not under any circumstances submit code that you have not helped to write nor may you consult anyone beyond those specified when completing your assignments. All Programming Assignments have the Late Work policy stated above. Your lowest assignment score will be dropped in the calculation of your course grade.

Lab Assignments

Lab Section

CSC 242 Section 507L

M 1:30PM - 3:00PM

14 E Jackson Room 505

TA Alan Kotlyar

   Nearly each week you will have lab exercises available to complete. You are highly encouraged to attend the scheduled lab session which takes place in the time and location stated above. If you cannot attend the lab sessions, you can log into a Zoom session conducted by the TA, at the same time as the Lab. Students attending the lab in person will have priority for answers and help from the Teaching Assistant. You can find the link for the Zoom lab sessions, managed by your TA, posted in the D2L Lab Section Announcements.

   All Labs have the Late Work policy stated above. The lowest lab score will be dropped in the calculation of your course grade.

   Directions on how to complete and submit the lab will be on each lab, made available before your lab meeting on D2L. Generally you will be given one or more python files that your group will complete and submit.

   Students cannot copy code from any website, but can use code from class or the textbook. Make sure that your lab actually runs. If your lab solution does not run it may be examined more closely to see if it contains code from improper sources.

Lab Group Submissions

- You can work by yourself, with a friend, or with 2 friends in a group
- Groups cannot be larger than 3, but groups of 3 are encouraged
- Each student must submit a lab submission
- If you work in a group, make sure to add the other group members names on your submission
- Members of the same group can have very similar or the same solution, however, each group should have their own solution.

Lab Grading Rubric

This will be used by the TA to grade your labs.

Submits a file by the deadline containing a solution for all of the lab exercises: 5

Submits a file by the deadline containing a solution to a majority of the lab exercises: 4

Submits a file by the deadline containing at least a partial solution to a majority of the lab exercises: 3

Submits a file by the deadline containing at least a partial solution to some of the lab exercise: 2

Does not submit any solutions to the lab exercises: 0

Midterm and Final

The midterm and final exams will be cumulative. Their dates are stated in the schedule below. The exams will take place in the computer lab classroom. Both exams will require you to write Python code. The details about how the exams will be given will be shared later in the quarter on the midterm and final exam study guides which will be posted to D2L. No late exam submissions will be accepted for any reason.

Make-up exams will not be given. If you wish to petition for a make-up exam, you must notify me in advance and provide documented evidence of the emergency that will cause you to miss the exam. Failure to contact me in advance of the exam date and time will disqualify you from being allowed to take a make-up exam. If a make-up exam is granted, it will be of a form of my choosing.

Grading

Overall Grade:

- Lab Assignments 10%
- Programming Assignments 20%
- Midterm Exam 35%
- Final Exam 35 %

All students will be required to sign and submit an Academic Integrity pledge at the start of the quarter. The Academic Integrity pledge will be posted on the D2L site. The pledge must be signed and submitted as a part of the first homework assignment. Students who violate this agreement are violating the Academic Integrity policy of DePaul University. See the section on Academic Integrity below for more information about that policy and penalties for violating it.

In order to do well in this class, you must participate in the class sessions regularly, complete all of the labs on time, complete class activities, read the chapters in the book, start work on the assignments early, submit the assignments on time, and ask questions early and often. The answers to the programming assignments, the lab exercises, and the exam questions should be written in a way that is rigorous, clear, and concise.

Grading Scale

A	93-100	C+	77-79
A-	90-92	C	73-76
B+	87-89	C-	70-72
B	83-86	D	66-69
B-	80-82	F	0-65

Course Schedule

The course follows the textbook through Chapters 7, 8, 9, 10, 11, and 12 in that order. Chapters 10 and 11 (recursion and web development) take the majority of the time, and Chapter 12 (databases) often gets slighted due to a lack of time.

Programming Assignments (PAs) are assigned on Thursdays and due 11:59PM the next Wednesday and follow the Late Work policy state above.

Lab Assignments are available just before your lab time and are due 11:59PM the day of your lab. They also follow the Late Work policy above.

Week	Topic	All Assignments, Labs, and Exams
Week 1 1/9, 1/11	Namespaces and scope; an introduction to object-oriented programming	PA1 assigned Thursday No Lab on Monday
Week 2	Object-oriented programming	Async Lab1 due by 11:59PM Friday

1/16, 1/18		PA1 Due Wednesday (11:59PM) PA2 Assigned Thursday
Week 3 1/23, 1/25	Object-oriented programming and an introduction to graphical-user interface development and event-driven programming	Lab2 on Monday PA2 Due Wednesday PA3 Assigned Thursday
Week 4 1/30, 2/1	Graphical-user interfaces	Lab3 on Monday PA3 Due Wednesday
Week 5 2/6, 2/8	Recursion and the midterm	No Lab Midterm Exam on Thursday In Class PA4 Assigned on Thursday
Week 6 2/13, 2/15	A discussion of the midterm; recursion, sorting, and searching	Lab4 on Monday PA4 Due Wednesday PA5 Assigned on Thursday
Week 7 2/20, 2/22	More about recursion	Lab5 on Monday PA5 Due Wednesday PA6 Assigned in Thursday
Week 8 2/27, 2/29	An introduction to HTML and WWW application development	Lab6 on Monday PA6 Due Wednesday PA7 Assigned in Thursday

Week 9 3/5, 3/7	WWW application development	Lab7 on Monday PA7 Due Wednesday PA8 Assigned in Thursday
Week 10 3/12, 3/14	The database API	Lab8 on Monday PA8 Due Wednesday
Finals Week 3/19		Final Exam: Tuesday 3/19, 2:30pm-4:45pm, In Class

Academic Integrity

DePaul University is a learning community that fosters the pursuit of knowledge and the transmission of ideas within a context that emphasizes a sense of responsibility for oneself, for others and for society at large. Violations of academic integrity, in any of their forms, are, therefore, detrimental to the values of DePaul, to the students' own development as responsible members of society, and to the pursuit of knowledge and the transmission of ideas. Violations include but are not limited to the following categories: cheating; plagiarism; fabrication; falsification or sabotage of research data; destruction or misuse of the university's academic resources; alteration or falsification of academic records; and academic misconduct. Conduct that is punishable under the Academic Integrity Policy could result in additional disciplinary actions by other university officials and possible civil or criminal prosecution. Please refer to your Student Handbook or visit Academic Integrity at DePaul University (http://academicintegrity.depaul.edu) for further details.

Library Resources
The DePaul University Library (https://library.depaul.edu) provides access to authoritative information sources, such as scholarly articles, journals, and books, primary sources, and research databases. Research help is available daily in-person and via chat, email, phone, or text. You may also make an appointment (in-person, phone, or Zoom) with a librarian to discuss your research projects.

Center for Students with Disabilities

Students seeking disability-related accommodations are required to register with DePaul's Center for Students with Disabilities (CSD) enabling you to access accommodations and support services to assist your success. There are two office locations:

Loop Campus - Lewis Center #1420 - (312) 362-8002
Lincoln Park Campus - Student Center #370 - (773) 325-1677

Students can also email the office at csd@depaul.edu

Students who are registered with the Center for Students with Disabilities are also invited to contact me privately to discuss how I may assist in facilitating the accommodations you will use in this course. This is best done early in the term. Our conversation will remain confidential to the extent possible.

University Counseling & Psychological Services

https://go.depaul.edu/ucaps (UCAPS) helps remove barriers to learning and support academic success by providing free, goal-focused, collaborative, short-term, confidential, individual, and group counseling services for DePaul's students. UCAPS has a diverse multi-disciplinary staff that includes licensed mental health professionals in psychology, counseling, and social work.

Students* can talk to a therapist or schedule a brief screening and consultation appointment in the following ways:

- To speak directly to a therapist 24 hours a day, 7 days a week, students should call 773-325-CARE (2273) and Press "1" when prompted.
- To schedule a brief screening and consultation (BSC) appointment, students should call 773-325-CARE (2273) during regular business hours and Press "2" when prompted.
- Students can visit go.depaul.edu/ucaps and click 'https://titaniumweb.is.depaul.edu/' to use online scheduling for a Brief Screening & Consultation (BSC) appointment. Online scheduling is available Monday through Friday from 8:00 am to 4:30 pm. *All BSCs scheduled online are for phone appointments. To schedule an in-person or telehealth BSC, please call 773-325-CARE (2273) and Press "2" when prompted.*

*Services are provided based on student eligibility. For full eligibility details please visit go.depaul.edu/ucaps.

The Writing Center

I strongly recommend you make use of the Writing Center throughout your time at DePaul. The Writing Center provides free peer writing tutoring for DePaul students, faculty, staff, and alumni. Writing Center tutors work with writers at all stages of the writing process, from invention to revision, and they are trained to identify recurring issues in your writing as well as address any specific questions or areas that you want to talk about. Visit www.depaul.edu/writing for more information.

Name & Pronouns

I will gladly address you by the name and pronouns that you indicate. Please advise me of your name and/or your pronouns early in the quarter so that I may make appropriate notes in my records. Please also note that students may choose to identify within the University community with a first name that differs from their legal name, and they may also update their gender and gender pronouns. If a new name is identified, it will display as a "preferred name" in University-related systems and documents except where the use of the legal name is necessitated or required by University business or legal necessity. For more information and instructions on how to make these updates, please see the LGBTQIA Resource Center's https://offices.depaul.edu/student-affairs/diversity-and-culture/identity-specific-student-centers/Pages/lgbtqia-resource-center.aspx resources and the Student Preferred Name and Gender Policy at policies.depaul.edu.

Dean of Students

The https://offices.depaul.edu/student-affairs/about/departments/Pages/dos.aspx (DOS) promotes student learning and ethical decision making in an inclusive and validating environment. Utilizing a comprehensive approach to student advocacy that is informed by DePaul's Catholic, Vincentian, and urban mission, the office collaborates with students, staff, faculty, parents and community partners to support students in reaching their academic and personal success.

The Dean of Students Office is primarily responsible for administering and adjudicating violations of the Code of Student Responsibility at DePaul University. Additionally, the office provides the administrative withdrawal and absence notification process, and can help students identify campus and community resources in times of personal and/or family crises and medical emergencies.

You can contact the Dean of Students Office by calling (773) 325-7290 or emailing deanofstudents@depaul.edu. In cases of emergency, please call the Department of Public Safety at (773) 325-7777.

Sexual & Relationship Violence

As a DePaul community, we share a commitment to take care of one another. Classroom relationships are based on trust and communication. Sometimes, material raised in class may bring up issues for students related to sexual and relationship violence. In other instances, students may reach out to faculty as a source of help and support. It is important for students to know that faculty are required to report information reported to them about experiences with sexual or relationship violence to DePaul's https://offices.depaul.edu/student-affairs/title-ix/Pages/default.aspx (Title IX) Coordinator. Students should also know that disclosing experiences with sexual or relationship violence in course assignments or discussion does not constitute a formal report to the University and may not begin the process of DePaul providing a response. Students seeking to report an incident of sexual or relationship violence to DePaul should contact Public Safety (Lincoln Park: 773-325-7777; Loop: 312-362-8400) and/or the Title IX Coordinator (Lincoln Park: 312-362-8970 or titleixcoordinator@depaul.edu).

Students seeking to speak confidentially about issues related to sexual and relationship violence should contact a Survivor Support Advocate in the Office of Health Promotion & Wellness for information and resources (773-325-7129 or hpw@depaul.edu). More information is available at http://studentaffairs.depaul.edu/hpw/shvp.html. Students are encouraged to take advantage of these services and to seek help around sexual and relationship violence for themselves as well as their peers who may be in need of support.

Basic Needs

Access to nutritious food and reliable housing are factors that influence many students' ability to succeed in the classroom and beyond. However, students facing food or housing insecurities may be hesitant to call attention to their ongoing struggles. DePaul University is committed to and cares about all students. To help you manage personal challenges and basic needs security, the university offers several resources. Any student who has difficulty affording groceries or accessing sufficient food to eat every day, or who lacks a safe and stable place to live, is urged to contact the Dean of Students Office for support: by calling (773) 325-7290 or emailing deanofstudents@depaul.edu. You can also contact http://stvdep.org/outreach/ and the http://stvdep.org/outreach/ Dax Program (Chicago - Depaul; email: emily.edwards@depaulusa.org; phone: (312) 362-7931 for support. The Center for Access and Attainment has also created a guide https://drive.google.com/file/d/1iMWY4F1PdFCfIUzVWTdlSmQ3INkv5rgB/view that you can review.

If you are comfortable doing so, please also let me know about these challenges, so that I can help you access resources.