



DePaul University

## **CSC 242 Section 604 and 604L**

### **Introduction to Computer Science II Spring 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](mailto:bharki@depaul.edu)

Office Hours:

4:45pm to 5:30pm Tuesdays in Daley 200 (may use nearby class if possible)

12:00pm to 12:45pm Fridays over Zoom

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#### **Office Hours Appointments**

I am available during office hours in person or over Zoom on Tuesdays and only Zoom on Fridays. 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 we can't meet during my office hours, we can always schedule a zoom meeting for some other time.

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## 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.

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## 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**

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## 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.

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## 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
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## **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.
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## **Attendance & Participation**

You must attend in person. You can request for a Zoom session and join virtually, however it will only be available sparingly. Attendance will be taken but it will not count towards your overall grade.

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## **Late Work**

Each Programming Assignment or Lab will have a posted deadline, specified on D2L. Assignments submitted by the deadline will be graded for full credit. Assignments submitted after the deadline will receive no credit, including submission of the wrong file. I will not accept any submissions over email. All submissions must be made through D2L to receive credit.

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## **Programming Assignments**

There are at least 6 Programming Assignments, but there may be one or two more added by the end of the quarter. You can expect to have an assignment to work on each week. Some assignments may be more difficult than others, so you may be given more than a week to complete it. Please see D2L for due dates of all currently assigned Programming Assignments. 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.

## Lab Information

Lab Section

CSC 242 Section 604L

W 10:10 AM - 11:40AM

CDM 819 at Loop Campus

TA Kavya Repalle

Nearly each week you will have lab exercises available to complete. You must attend the scheduled lab session which takes place in the time and location stated above. If you cannot attend the lab sessions, you can request a Zoom session conducted by the TA, at the same time as the Lab. However these sessions are to be used sparingly. Students attending the lab in person will have priority for answers and help from the Teaching Assistant. Your TA will manage the Zoom meeting requests and post a link in your Lab Section in D2L, if it is granted. All Labs have the Late Work policy stated above.

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.

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## 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

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## 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.

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## Grading

Overall Grade:

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

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.

I reserve the right to award **no credit** to solutions or to entire assignments, labs, or exams that contain code that is the same as another student's or some online resource that does not include the class notes. This will be an academic violation. See the section on Academic Integrity below for more information about that policy and penalties for violating it.

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## Grading Scale

A	93-100	C	73-76
A-	90-92	C-	70-72
B+	87-89	D+	67-69
B	83-86	D	60-66
B-	80-82	F	0-59
C+	77-79		

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## 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 usually due by the end of the day on the Friday of the next week, but see D2L for the due date of the currently assigned PA. I may give extra time on some homeworks or I may not assign one or two of the eight PAs. See D2L for the most updated assignment due dates.

Lab Assignments are available just before your lab time and are due 11:59PM the day of your lab.

Week	Topic	All Assignments, Labs, and Exams
Week 1 4/2, 4/4	Namespaces and scope; an introduction to object-oriented programming	No Lab on Monday PA1 Assigned Thursday
Week 2 4/9, 4/11	Object-oriented programming	Lab1 on Wednesday PA1 Due Friday

		PA2 Assigned Thursday
Week 3 4/16, 4/18	Object-oriented programming and an introduction to graphical-user interface development and event-driven programming	Lab2 on Wednesday PA2 Due Friday PA3 Assigned Thursday
Week 4 4/23, 4/25	Graphical-user interfaces	Lab3 on Wednesday PA3 Due Friday
Week 5 4/30, 5/2	Recursion and the midterm	No Lab Midterm Exam on Thursday In Class PA4 Assigned on Thursday
Week 6 5/7, 5/9	A discussion of the midterm; recursion, sorting, and searching	Lab4 on Wednesday PA4 Due Friday PA5 Assigned on Thursday
Week 7 5/14, 5/16	More about recursion	Lab5 on Wednesday PA5 Due Friday PA6 Assigned Thursday
Week 8 5/21, 5/23	An introduction to HTML and WWW application development	Lab6 on Wednesday PA6 Due Friday PA7 Assigned Thursday

Week 9 5/28, 5/30	WWW application development	Lab7 on Wednesday PA7 Due Friday PA8 Assigned Thursday
Week 10 6/4, 6/6	The database API	Lab8 on Wednesday PA8 Due Friday
Finals Week 6/11		Final Exam: Tuesday 6/11, 2:30pm-4:45pm In usual classroom: CDM 819

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### Changes to Syllabus

This syllabus is subject to change as necessary during the quarter. If a change occurs, it will be thoroughly addressed during class, posted under Announcements in D2L and sent via email.

Respect for Diversity and Inclusion at DePaul University as aligned with our Vincentian Values  
At DePaul, our mission calls us to explore “what must be done” in order to respect the inherent dignity and identity of each human person. We value diversity because it is part of our history, our traditions and our future. We see diversity as an asset and a strength that adds to the richness of classroom learning. In my course, I strive to include diverse authors, perspectives and teaching pedagogies. I also encourage open dialogue and spaces for students to express their unique identities and perspectives. I am open to having difficult conversations and I will strive to create an inclusive classroom that values all perspectives. If at any time, the classroom experience does not live up to this expectation, please feel free to contact me via email or during office hours.

### Online Course Evaluations

Evaluations are a way for students to provide valuable feedback regarding their instructor and the course. Detailed feedback will enable the instructor to continuously tailor teaching methods and course content to meet the learning goals of the course and the academic needs of the students. They are a requirement of the course and are key to continue to provide you with the highest quality of teaching. The evaluations are anonymous; the instructor and administration do not track who entered what responses. A program is used to check if the student completed the evaluations, but the evaluation is completely separate from the student’s identity. Since 100% participation is our goal, students are sent periodic reminders over three weeks. Students do not receive reminders once they complete the evaluation. Please see <https://resources.depaul.edu/teaching-commons/teaching/Pages/online-teaching-evaluations.aspx> for additional information.

### **Academic Integrity and Plagiarism**

This course will be subject to the university's academic integrity policy. All students are expected to abide by the University's Academic Integrity Policy which prohibits cheating and other misconduct in student coursework. Publicly sharing or posting online any prior or current materials from this course (including exam questions or answers), is considered to be providing unauthorized assistance prohibited by the policy. Both students who share/post and students who access or use such materials are considered to be cheating under the Policy and will be subject to sanctions for violations of Academic Integrity.

More information can be found at <https://resources.depaul.edu/teaching-commons/teaching/academic-integrity/Pages/default.aspx>.

#### *Posting work on online sites, such as Hero*

All students are expected to abide by the University's Academic Integrity Policy which prohibits cheating and other misconduct in student coursework. Publicly sharing or posting online any prior or current materials from this course (including exam questions or answers), is considered to be providing unauthorized assistance prohibited by the policy. Both students who share/post and students who access or use such materials are considered to be cheating under the Policy and will be subject to sanctions for violations of Academic Integrity.

### **Academic Policies**

All students are required to manage their class schedules each term in accordance with the deadlines for enrolling and withdrawing as indicated in the [University Academic Calendar](#). Information on enrollment, withdrawal, grading and incompletes can be found at:

<http://www.cdm.depaul.edu/Current%20Students/Pages/PoliciesandProcedures.aspx>

### **Incomplete Grades**

An incomplete grade is a special, temporary grade that may be assigned by an instructor when unforeseeable circumstances prevent a student from completing course requirements by the end of the term and when otherwise the student had a record of satisfactory progress in the course. All incomplete requests must be approved by the instructor of the course and a CDM Associate Dean. Only exceptions cases will receive such approval. Information about the Incomplete Grades policy can be found at <http://www.cdm.depaul.edu/Current%20Students/Pages/Grading-Policies.aspx>

### **Preferred Name & Gender Pronouns**

Professional courtesy and sensitivity are especially important with respect to individuals and topics dealing with differences of race, culture, religion, politics, sexual orientation, gender, gender variance, and nationalities. I will gladly honor your request to address you by an alternate name or gender pronoun. Please advise me of this preference early in the quarter so that I may make appropriate changes to my records. Please also note that students may choose to identify within the University community with a preferred first name that differs from their legal name and may also update their gender. The preferred first name will appear in University related systems and documents except where the use of the legal name is necessitated or required by University business or legal need. For more information and instructions on how to do so, please see the Student Preferred Name and Gender Policy at <http://policies.depaul.edu/policy/policy.aspx?pid=332>

### **Students with Disabilities**

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

- Loop Campus (312) 362-8002
- Lincoln Park Campus (773) 325-1677
- Email: [csd@depaul.edu](mailto:csd@depaul.edu)

Students who register with the Center for Students with Disabilities are also invited to contact Dr. Gregory Moorhead, Director of the Center, privately to discuss how he may assist in facilitating the accommodations to be used in a course. This is best done early in the term. The conversation will remain confidential to the extent possible.

Please see <https://offices.depaul.edu/student-affairs/about/departments/Pages/csd.aspx> for Services and Contact Information.

### **Faculty Resources Available from the Dean of Students Office**

The online classroom [https://offices.depaul.edu/student-affairs/resources/faculty-staff/faculty-questions/Documents/Faculty\\_Resources\\_Online\\_Classroom.pdf](https://offices.depaul.edu/student-affairs/resources/faculty-staff/faculty-questions/Documents/Faculty_Resources_Online_Classroom.pdf)

### **Syllabus Resources Available from Teaching Commons**

<https://resources.depaul.edu/teaching-commons/teaching-guides/course-design/Pages/syllabuses.aspx#samples>