FLORIDA ATLANTIC UNIVERSITY

COURSE CHANGE REQUEST
Undergraduate Programs

Department Electrical Engineering and Computer Sciene

College Engineering and Computer Sciene

UUPC Approval _____
UFS Approval _____
SCNS Submittal _____
Confirmed _____
Banner Posted _____
Catalog _____

***Current* Course Prefix and Number**	COP 3410C	***Current* Course Title**	Data Strc Algorithm Analysis with Python

*Syllabus must be attached for **ANY** changes to current course details. See Template. Please consult and list departments that may be affected by the changes; attach documentation.*

Change title to:

Change prefix

From: **To:**

Change course number

From: **To:**

Change credits*

From: **To:**

Change grading

From: **To:**

Change WAC/Gordon Rule status**

Add ☐ **Remove** ☐

Change General Education Requirements***

Add ☐ **Remove** ☐

*See Definition of a Credit Hour.

**WAC/Gordon Rule criteria must be indicated in syllabus and approval attached to this form. See WAC Guidelines.

***GE criteria must be indicated in syllabus and approval attached to this form. See Intellectual Foundations Guidelines.

Change description to:

Change prerequisites/minimum grades to:

(COT 2000C or MAD 2104) and (CEN 3062C) with minimum grades of "C"

Change corequisites to:

Change registration controls to:

Please list existing and new pre/corequisites, specify AND or OR and include minimum passing grade (default is D-).

Effective Term/Year for Changes:	Fall 2026	**Terminate course? Effective Term/Year for Termination:**	

Faculty Contact/Email/Phone

Approved by	***Date***
Department Chair Hai Kalva	
College Curriculum Chair Galan Liu	3/17/26
College Dean	3/17/26
UUPC Chair	
Undergraduate Studies Dean	
UFS President	
Provost	

Email this form and syllabus to mjenning@fau.edu seven business days before the UUPC meeting.

FLORIDA ATLANTIC UNIVERSITY

COP 3410C-002 16153

Data Strc Algrthm Anlys Python

Date: Tuesday, Thursday 12:30 PM - 1:50 PM

Building: MacArthur Admin Clssrm Jupiter **Room:** 206

3 Credit(s)

Spring 2026 - 1 Full Term

Instructor Information

Sareh Taebi
Email: staebi@fau.edu
Office: EE510

Office Hours: TBD

15 min slots available to book using Microsoft Teams.

If you would prefer to meet in person, put it down in requests when booking a slot.

Link available soon

Phone: 561 297 2741 (email preferred, do not leave a voicemail)

TA: Mohammed Al jassani , Saivishal Apuru

Email: mmohammed2021@fau.edu , sapuru2024@fau.edu

Prerequisite: (COT 2000C or MAD 2104) and (CEN 3062C) with minimum grades of "C"

Course Description: This course is an advanced programming class that covers data structures and algorithm analysis using the Python programming language. The course covers various data structures (including arrays, linked lists, stacks, queues, trees) and abstract data types in the design and implementation of computer programs.

Instructional Method

Multi Campus: Remote Location
Video-conferenced class. Section that receives the video-conferenced signal.

Required Texts/Materials

Florida Atlantic University - COP 3410: Data Structures and Algorithm Analysis with Python - Spring 2026
ISBN: 9798203179456
Publisher: Zybooks
Edition: 1st
1. Sign in or create an account at learn.zybooks.com

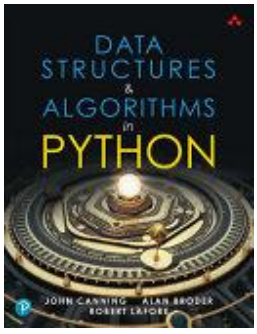
2. Enter zyBook code: FAUCOP3410TaebiSpring2026

3. Subscribe

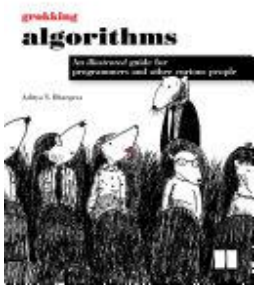
Data Structures and Algorithms in Python
ISBN: 9781118476734
Publisher: John Wiley & Sons, Incorporated
Edition: 1st

Data Structures & Algorithms in Python
ISBN: 9781118290279
Publisher: John Wiley & Sons, Incorporated

Recommended Readings and Materials



Data Structures & Algorithms in Python
ISBN: 9780134855684
Authors: John Canning, Alan Broder, Robert Lafore
Publisher: Addison-Wesley Professional
Publication Date: 2022-05-18



Grokking Algorithms
ISBN: 9781638353348
Authors: Aditya Bhargava
Publisher: Simon and Schuster
Publication Date: 2016-05-12

Course Objectives/Student Learning Outcomes

The primary objective of this course is to provide an advanced understanding of object-oriented Python programming. Including the development of data structures including Linked Lists, Stacks, Queues, Trees.

Course Evaluation Method

Subject to changes:

Exams: 45 %

Assignments/worksheets: 40 %

Labs: 15%

Bonuses: 3 - 5 %

Note: One lowest Grade for assignments, worksheets and labs category would be dropped at the end of the semester.

Note: The minimum grade required to pass the course for CS/ CE majors is a C.

Code of Academic Integrity

Students at Florida Atlantic University are expected to maintain the highest ethical standards. Academic dishonesty is considered a serious breach of these ethical standards, because it interferes with the university mission to provide a high quality education in which no student enjoys an unfair advantage over any other. Academic dishonesty is also destructive of the university community, which is grounded in a system of mutual trust and places high value on personal integrity and individual responsibility. Harsh penalties are associated with academic dishonesty. For more information, see University Regulation 4.001.

PLAGIARISM

Plagiarism is unacceptable in the University community. Academic work must be an original work of your own thought, research, or self-expression. When students borrow ideas, wording, or organization from another source, they must acknowledge that fact in an appropriate manner. Plagiarism is the deliberate use and appropriation of another's work without identifying the source and trying to pass off such work as one's own. Any student who fails to give full credit for ideas or materials taken from another has plagiarized. This includes all discussion board posts, journal entries, wikis, and other written and oral presentation assignments. If in doubt, cite your source.

Please join the iClicker attendance tool for this class. Attendance would be taken automatically from 12:35 - 12:45 pm on lecture days:

https://join.iclicker.com/WPQL

Course Grading Scale

Letter Grade	Letter Grade
A	90- 100%
A-	87 - < 90%
B+	83 - <87%
B	80 - <83%
B-	77 - <80%
C+	73 - <77%
C	70 - <73%
C-	67 - <70%
D+	63 - <67%
D	60 - <62%
D-	51 - 59%
F	Below 50

Policy on Make-up Tests, Late work, and Incompletes

Late Assignments Policy: All assignments are due at 11:59 pm on the due date. Late assignments will be accepted with a penalty of 10% for 24 hours after the due date. It is recommended that students submit their assignments earlier in case the student encounters technical difficulties in submission. No submission would be accepted outside of Canvas.

Make-up Policy for Tests: Makeup tests are given only if there is solid evidence of a medical or otherwise serious emergency that prevented the student of participating in the exam. Final exam will not have a makeup test under any circumstances.

Incomplete ("I") Grade Policy: Incomplete grades are against the policy of the department. Unless there is solid evidence of medical or otherwise serious emergency and the student is currently passing the class, incomplete grades will not be given.

Note: students are not penalized for absences due to participation in university-approved activities, including athletic or scholastics teams, musical and theatrical performances, and debate activities. Reasonable accommodation will be made for students participating in a religious observance.

Special Course Requirements

Technology Requirements: The students are required to have their own personal computers which must be equipped with speakers, microphones, and webcams. The students must have access to reliable broadband internet connection throughout the semester. Python IDLE compiler must be installed. Refer to:

https://www.python.org/downloads/

The preferred ide is Spyder and can be downloaded at:

https://www.spyder-ide.org/

Discussion boards: a great way to communicate with the entire class, and answer course-related questions. All questions must be posted publicly through Canvas discussion boards, so other

students also benefit from the answers. Only personal or confidential matters should be sent via email to the professor, all others will be ignored.

Course Assessments/Assignments and Grading Policy: All assignments, projects, programs, quizzes, and exams in this course must be INDIVIDUAL effort. All programming assignments are individual work, the best way to learn how to program is to write your own code. Sharing work is considered cheating. Sharing code includes posting completed work before the assignment official deadline onto sites, emailing code to other students, allowing any access to your work before the official deadline has passed. Other code sharing offenses include submitting another person's work as your own, this includes taking code off sites on the internet. Modifying code and submitting it as your own is a fraudulent practice—specifically, plagiarism. Make sure that you work independently and submit only your own work. We do have access to software that can easily detect plagiarism, and students would be given zero automatically.

Grievances: Once the grades are published for any assignment, lab, exam or quiz, the students are given **one week time** to report to the instructor any concerns or questions regarding that grade.

Policy on the Recording of Lectures

All lectures are recorded and recordings are available to assist with course learning. Recordings may not be published or shared without the written consent of the faculty member. Failure to adhere to these requirements may constitute a violation of the University's Student Code of Conduct and/or the Code of Academic Integrity.

AI Language Specific To This Course

AI Prohibited: The use of AI to assist in any work assigned in this specific course is prohibited.

Course Topical Outline

Subject to changes

1. Introduction

2. Review of Python concepts

3. Algorithm Analysis

4. Recursion

5. Array-Based Sequences

6. Stacks, Queues

7. Linked Lists and Trees

8. Priority Queues

9. Maps, Hash Tables, and Skip Lists

10. Search Trees

11. Sorting and Selection

Attendance Policy

Students are expected to attend all of their scheduled University classes and to satisfy all academic objectives as outlined by the instructor. The effect of absences upon grades is determined by the instructor, and the University reserves the right to deal at any time with individual cases of non-attendance. Students are responsible for arranging to make up work missed because of legitimate class absence, such as illness, family emergencies, military obligation, court-imposed legal obligations or participation in University-approved activities. Examples of University-approved reasons for absences include participating on an athletic or scholastic team, musical and theatrical performances and debate activities. It is the student's responsibility to give the instructor notice prior to any anticipated absences and within a reasonable amount of time after an unanticipated absence, ordinarily by the next scheduled class meeting. Instructors must allow each student who is absent for a University-approved reason the opportunity to make up work missed without any reduction in the student's final course grade as a direct result of such absence.

Counseling and Psychological Services (CAPS) Center

Life as a university student can be challenging physically, mentally and emotionally. Students who find stress negatively affecting their ability to achieve academic or personal goals may wish to consider utilizing FAU's Counseling and Psychological Services (CAPS) Center. CAPS provides FAU students a range of services – individual counseling, support meetings, and psychiatric services, to name a few – offered to help improve and maintain emotional well-being. For more information, go to http://www.fau.edu/counseling/

Disability Policy

In compliance with the Americans with Disabilities Act Amendments Act (ADAAA), students who require reasonable accommodations due to a disability to properly execute coursework must register with Student Accessibility Services (SAS) and follow all SAS procedures. SAS has offices across three of FAU's campuses – Boca Raton, Davie and Jupiter – however disability services are available for students on all campuses. For more information, please visit the SAS website at www.fau.edu/sas/.

Artificial Intelligence Preamble

FAU recognizes the value of generative AI in facilitating learning. However, output generated by artificial intelligence (AI), such as written words, computations, code, artwork, images, music, etc., for example, is drawn from previously published materials and is not your own original work. FAU students are not permitted to use AI for any course work unless explicitly allowed to do so by the instructor of the class for a specific assignment. [Policy 12.16 Artificial Intelligence].

Class policies related to AI use are decided by the individual faculty. Some faculty may permit the use of AI in some assignments but not others, and some faculty may prohibit the use of AI in their course entirely. In the case that an instructor permits the use of AI for some assignments, the assignment instructions will indicate when and how the use of AI is permitted in that specific assignment. It is the student's responsibility to comply with the instructor's expectations for each assignment in each course. When AI is authorized, the student is also responsible and accountable for the content of the work. AI may generate inaccurate, false, or exaggerated information. Users should approach any generated content with skepticism and review any information generated by AI before using generated content as-is.

If you are unclear about whether or not the use of AI is permitted, ask your instructor before starting the assignment.

Failure to comply with the requirements related to the use of AI may constitute a violation of the Florida Atlantic Code of Academic Integrity, Regulation 4.001.

Proper Citation: If the use of AI is permitted for a specific assignment, then use of the AI tool must be properly documented and cited. For more information on how to properly cite the use of AI tools, visit https://fau.edu/ai/citation