

## Standardized Syllabus for the College of Engineering

### COP3502 Programming Fundamentals for CIS Majors 1

#### 1. Catalog Description (3 credits)

The second course of a two-semester introductory sequence for students w/o prior programming experience. Major concepts of computer science and computer programming processes, including object-oriented programming, procedural and data abstraction and program modularity.

#### 2. Pre-requisites and Co-requisites

Pre-requisites: COP 3502 and MAC 2311.

#### 3. Course Objectives

Students will learn:

- Fundamentals of object-oriented paradigm and how to apply it to solve a real life problem
- Object-oriented aspects of the Java Programming Language
- Using the Java API
- GUI and Event-Driven Programming
- Basic Algorithms and Data Structures

#### 4. Relationship of course to program outcomes:

c. an ability to design a system, component, or process to meet desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability, and sustainability.

e. an ability to identify, formulate, and solve engineering problems.

k. an ability to use the techniques, skills, and modern engineering tools necessary for engineering practice.

#### 5. Instructor: Tuba Kahveci

a. Office location: CSE E442

b. Telephone: 352-505-1572

c. E-mail address: [tyavuz@cise.ufl.edu](mailto:tyavuz@cise.ufl.edu)

d. Office hours: Monday 3rd period, Friday 3rd period, or by appointment

#### 6. Teaching Assistant

Name	Office location	E-mail address	Office hours
Nakul Jindal	CSE 309	<a href="mailto:njindal@cise.ufl.edu">njindal@cise.ufl.edu</a>	Tuesday 12:50 pm – 1:40 pm Wednesday 12:50 pm – 2:45 pm
Shayan Javed	CSE 309	<a href="mailto:sjaved@cise.ufl.edu">sjaved@cise.ufl.edu</a>	Monday 1:55 pm – 3:50 pm Tuesday 1:55 pm – 2:45 pm

Xin Yang      CSE 309  
Subhankar    CSE 309  
Mishra

xin at cise.ufl.edu  
mishra at cise.ufl.edu

Monday 2pm - 3pm  
M 8:30 am – 9:20 am  
W 8:30 am – 9:20 am,  
W 9:35 am – 10:25 am

Please note that Subhankar will be grading your projects whereas Nakul, Shayan, and Xin will lead and grade your labs.

## **7. Meeting Times**

MWF 5th period (11:45 am – 12:35 pm) in TUR L011

## **8. Class/laboratory schedule**

Section # 1C01	Thursday Period 2-3 in CSE E113
Section # 1C75	Thursday Period 4-5 in CSE E113
Section # 129B	Thursday Period 6-7 in CSE E113
Section # 129C	Thursday Period 8-9 in CSE E113
Section # 3513	Thursday Period 1011 in CSE E113
Section # 6773	Thursday Period 2-3 in CSE E116
Section # 6776	Thursday Period 4-5 in CSE E116
Section # 6777	Thursday Period 6-7 in CSE E116
Section # 6780	Thursday Period 8-9 in CSE E116

## **9. Meeting Location**

Turlington L011

## **10. Material and Supply Fees**

Course fee: \$17.31

## **11. Textbooks and Software Required**

- a. Title: Introduction to Java Programming, Comprehensive Version
- b. Author: Y. Daniel Liang
- c. Publication date and edition: Prentice Hall; 9th edition, 2012
- d. ISBN number: 9780132936521

## **12. Recommended Reading**

Java tutorial: <http://download.oracle.com/javase/tutorial/>

## **13. Course Outline**

1. Objects and Classes

2. Inheritance and Polymorphism
3. Exception Handling
4. Text I/O
5. Abstract Classes and Interfaces
6. GUI Programming
7. Event-Driven Programming
8. Recursion
9. Generics
10. Lists, Stacks, Queues, and Priority Queues

#### **14. Attendance and Expectations**

Class attendance is required. If for some reason you have to miss a class, you are responsible for getting class notes from a classmate.

All course material can be accessed via [E-learning](#). All project submissions will also be through E-learning. Make sure to submit your completed work before the due date to avoid a penalty if an assignment is due. Late submissions will be accepted up to 4 days past the due date and each day will incur a 10% penalty.

Cell phones should be turned off or set to vibrate.

#### **15. Grading – methods of evaluation**

Final grade is calculated according to the following schedule

**Projects** 30% (Total of 6 projects)

**Labs** 5% (Each lab will involve solving a set of programming problems to help you with the projects)

**Exam1** 30% (February 25th in class)

**Exam2** 35 % (May 1st, 7:30 am in TUR L011)

#### **16. Grading Scale**

A(100-92), A-(91-89), B+(88-84), B(83-80), B-(79-77), C+(76-73), C(72-69), C-(68-66), D+(65-63), D(62-59), D-(58-55), F(54-0)

A C- will not be a qualifying grade for critical tracking courses. In order to graduate, students must have an overall GPA and an upper-division GPA of 2.0 or better (C or better). Note: a C- average is equivalent to a GPA of 1.67, and therefore, it does not satisfy this graduation requirement. For more information on grades and grading policies, please visit:

<https://catalog.ufl.edu/ugrad/current/regulations/info/grades.aspx>

#### **17. Make-up Exam Policy**

All students should plan to take their exams at the scheduled times. In the case of sudden or unexpected events that will cause them to miss an exam, students are required to notify the instructor

prior to the exam or as early as possible. Make-up exams are given only in exceptional circumstances with the Instructor's permission.

### **18. Honesty Policy**

All students admitted to the University of Florida have signed a statement of academic honesty committing themselves to be honest in all academic work and understanding that failure to comply with this commitment will result in disciplinary action. This statement is a reminder to uphold your obligation as a UF student and to be honest in all work submitted and exams taken in this course and all others.

### **19. Accommodation for Students with Disabilities**

Students Requesting classroom accommodation must first register with the Dean of Students Office. That office will provide the student with documentation that he/she must provide to the course instructor when requesting accommodation.

### **20. UF Counseling Services**

Resources are available on-campus for students having personal problems or lacking clear career and academic goals. The resources include:

- UF Counseling & Wellness Center, 3190 Radio Rd, 392-1575, psychological and psychiatric services.
- Career Resource Center, Reitz Union, 392-1601, career and job search services.

### **21. Software Use**

All faculty, staff and student of the University are required and expected to obey the laws and legal agreements governing software use. Failure to do so can lead to monetary damages and/or criminal penalties for the individual violator. Because such violations are also against University policies and rules, disciplinary action will be taken as appropriate. We, the members of the University of Florida community, pledge to uphold ourselves and our peers to the highest standards of honesty and integrity.