

# CSCI 1370: SOFTWARE DEVELOPMENT WITH JAVA

Spring 2017

Time: **Tuesday & Thursday** 10:00 to 11:20 am

Room: Delta Building, Room 204

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**Instructor: Dr. Kewei Sha**

**Office: Delta 148**

**E-mail: [sha@uhcl.edu](mailto:sha@uhcl.edu)**

**Office Hours:** Tuesday, Thursday: 11:30 am – 12:30 pm & 1:00 – 3:30 pm

Or by appointment

**Phone: 281-283-3874**

**URL: <http://sceweb.sce.uhcl.edu/sha/>**

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**Teaching Assistant (TA):** Jindal, Shishir

**Email:** [JindalS2690@UHCL.edu](mailto:JindalS2690@UHCL.edu) and [jindal2690@gmail.com](mailto:jindal2690@gmail.com)

Phone: 346-310-3627

Office: PC Lab

TA Office hours:

Monday 9:00 AM to 12:00 PM

Wednesday: 3:00 PM to 7:00 PM

Friday: 5:00 PM to 8:00 PM

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**The information contained in this class syllabus is subject to change without notice. Students are expected to be aware of any additional course policies presented by the instructor during the course.**

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## Textbook

Deitel & Deitel. Java How to Program (early objects), 10th Edition.

## Course Pre-requisite

C, Pascal or Ada (Previous programming experience).

## Grading and Evaluation

Participation	5%
Assignments and Quizzes	50%
Midterm Exam	20%
Final exam	25%

## Grading Scale

90+ = A; 87-89 = A-; 84-86 = B+; 81-83 = B; 78-80 = B-; 75-77 = C+;

71-74 = C; 68-70 = C-; 65-67 = D+; 61-64 = D; 58-60 = D-; < 58 = F

## Course Description

Software development with the Java programming language and the Java class libraries.  
Design of applets and standalone Java applications.

## Course Goals

Upon successful completion of this class, students will be equipped with understanding of the Java programming language, and have experiences in designing and implementing object-oriented programs to solve computer-based problems.

## Learning outcomes

After completing this class, students will be able to:

- Develop programs using basic Java constructs such as iteration, conditional statements, recursion, and exception handling
- Understand the fundamental concepts of object-oriented modeling
- Develop programs with basic data structures in Java (like arrays)
- Utilize basic file and stream I/O in Java programs
- Understand the fundamentals of object-oriented programming in Java including classes, members, interfaces, inheritance, and polymorphism
- Use introductory UML techniques including class diagrams for programming solutions using Java

This course will also focus on strengthening students' problem solving skills

## General Course Outline (subject to change)

1. Introduction Computers and Java and Problem Solving (Ch. 1)
2. Java Applications (Ch. 2)
3. Object Oriented Programming: Classes, Objects, Methods and Strings (Ch. 3)
4. Selection, and Decision-Making Constructs. (Ch. 4)
5. Iteration and Looping (Ch. 5)
6. More on Methods (Ch 6)
7. Arrays and ArrayLists (Ch. 7)
8. Midterm Exam
9. More on Classes, and Class Members (Ch. 8)
10. Inheritance (Ch. 9) / Polymorphism (Ch. 10)
11. Exception Handling (Ch. 11)
12. Strings, Characters, and Reg. Expressions (Ch. 14) / Files and Streams (Ch. 15)
13. Recursion (Ch. 18)
14. Searching, Sorting, and Big O (Ch. 19)
15. Final Exam (Comprehensive)

## Important dates:

Midterm:	March 7 & March 9, 2017
Final:	May 4, 2017 Thursday, 10:00 am - 12:50 pm

**Other important dates: (You must confirm on the University Website)**

17 January .....	First Class Day for Regular Session
7 & 9 March .....	Midterm
13-19 March .....	University Holiday – Spring Break
1 May.....	Final Class Day
4 May.....	Final Exams

**General Notes**

- The Blackboard site will be the official site for this course.
- Must use UHCL-mail. Please note course (CSCI 1370) in Subject Line. Should check your mail at least once per day. Be respectful in email correspondence.
- Respect your TA. The TA is your first line of defense/offense.
- This is a face-to-face course conducted as lectures and presentations. The material will be posted on the course Blackboard before class time. Students are expected to read class material from the book before coming to class. Other notes and material are accessible from Blackboard during class.
- All submissions and deliverables of assignments are due according to Blackboard-posted times and dates.
- Class attendance is expected. It is the student’s responsibility to get the material discussed, announcements, handouts, or anything conducted during a missed class meeting. Class attendance is part of the Participation Grade.
- Participation and discussion from students are highly encouraged.
- I **WILL NOT** accept assignments handed in after the deadline UNLESS (a) you have made prior arrangements with me OR (b) you have a reason such as illness or injury, which is substantiated by the dean of students.
- Makeup of exams and quiz will be very restricted, and is allowed only under a documented (appropriate documents) legitimate excuse that is to the discretion of the instructor.
- Students with special needs and disability should contact the instructor as soon as possible and contact Disability Services Office at 281-283-2627 website: [www.uhcl.edu/disability](http://www.uhcl.edu/disability)
- Regrading work policy: If you believe that the TA or myself have made a mistake in grading you have two class periods after I return the assignment/exam to submit a regrade request. On a separate sheet of paper attached to the front of the assignment/exam you must give a clearly written logical argument as to why you believe that you should have received a different score. I will then regrade the entire problem. On occasion this may result in a lower score. After the deadline has passed I will not regrade assignments.
- Incomplete course policy: The university’s incomplete course policy is contained in both the undergraduate and graduate catalogues which are available on the university website ([www.uhcl.edu](http://www.uhcl.edu)).
- **6 Drop Rule:** Students who entered college for the first time in Fall 2007 or later should be aware of the course drop limitation imposed by the Texas Legislature. Dropping this or any other course between the first day of class and the census date for the semester/session does not affect your 6 drop rule count. Dropping a course between the census date and the last day to drop a class for the semester/session will count as one of your 6 permitted drops. You should take this into consideration before dropping this or any other course. Visit [www.uhcl.edu/records](http://www.uhcl.edu/records) for more information on the 6 drop rule and the census date information for the semester/session.

- Academic Honesty: HONESTY CODE of UHCL states: **I will be honest in all my academic activities and will not tolerate dishonesty.** Students and Faculty are bound to the honor code; therefore, academic dishonesty will not be tolerated in this class! See the UHCL catalog for more details. You are encouraged to become familiar with the policy of academic dishonesty found in the UHCL official student handbook. All submissions are considered completely 100% your own work. Copying the work of others and allowing others to copy your own work is not acceptable and is considered academic dishonesty. Also, sharing the course material after finishing this course is not allowed. Any violation of the dishonesty rules will result in filing *Academic Dishonesty Form* and subtracting 10% of total course grade for each incident and for all students involved in the incident.

Academic Honesty Code: see section 2.1.4 in the Students Life Policies handbook for the UHCL Academic Honesty Code:

[http://prtl.uhcl.edu/portal/page/portal/PRV/FORMS\\_POLICY\\_PROCEDURES/STUDENT\\_POLICIES/Academic\\_Honesty\\_Policy](http://prtl.uhcl.edu/portal/page/portal/PRV/FORMS_POLICY_PROCEDURES/STUDENT_POLICIES/Academic_Honesty_Policy) .

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