UCLA Extension

359665: JAVA PROGRAMMING I COM SCI-X 418.85A

Spring 2018   Section 1   4 Credits   04/02/2018 to 06/04/2018   Modified 12/12/2017

👤 Contact Information

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You may also contact the instructor by using the Inbox feature within Canvas.

🖥 Description

Powerful enough to build large N-tiered Internet and intranet applications, Java is a well-designed object-oriented language that allows rapid development of programs. Due to its simplicity, it also is an excellent first-time programming language to learn. This hands-on course presents the fundamentals of programming using Java and covers object-oriented programming, classes, constructors, flow control statements, data types, methods, inheritance, data hiding, abstraction, and the Java library. Students gain experience through a number of programming projects during the course and instruction stresses practical programming skills to prepare them for follow-on Java courses.

⊙ Objectives

In this course, learners will:

- Explore computer programming using the Java language.
- Discover the fundamentals of Object Oriented programming.

📶 Outcomes

By the end of this course, successful participants will be able to:

- Write small to medium sized computer programs using the Java language.
- Use core programming concepts including Variables, Control flow statements (branching & looping), Methods, and Input/Output.
- Implement object-oriented programming techniques including Encapsulation, Abstraction, Inheritance, and Polymorphism.

📖 Materials

Java For Everyone Late Objects

Author: Cay Horstmann
Availability: http://www.wiley.com/WileyCDA/Section/id-824937.html

You can purchase the book from this website:

http://www.wiley.com/WileyCDA/Section/id-824937.html

Head First Java

Author: Kathy Sierra and Bert Bates
Edition: 2nd Edition
Optional

The Java Programming Language

Author: Ken Arnold, James Gosline and David Holmes
Publisher: 4th Edition
Optional

Computer Requirements:

Students are required to have a computer and install JDK and NetBeans.

☰ Deliverables

Project Submission Instructions:

You will submit your projects on Canvas. Homework projects must be submitted weekly prior to their due dates. Homework projects must be completed in Netbeans IDE and should be submitted as a zip file. Your Netbeans project and project zip file name must be:

FirstnameLastnameProjectX

How to zip your project:

To create a zip file of your project, you can either use windows to create a compressed file (right click on the folder you want to compress, then go to SendTo --> Compressed(Zipped) folder) or use the 7-zip program (download it from here: http://www.7-zip.org (http://www.7-zip.org/) (links to an external site). You need to create a zip file of your project folder.

✔ Evaluation

Criteria

Grading:

Weekly Projects 70%

Final 30%

Breakdown

A+	100%	to 97.0%
A	< 97.0%	to 94.0%
A-	< 94.0%	to 90.0%
B+	< 90.0%	to 87.0%
B	< 87.0%	to 84.0%
B-	< 84.0%	to 80.0%
C+	< 80.0%	to 77.0%
C	< 77.0%	to 74.0%
C-	< 74.0%	to 70.0%
F	< 70.0%	to 0.0%

✿ Course Policies

Instructor Expectations

Learning software programming requires a lot of practice. I expect that everyone puts the time and effort to complete the weekly projects because that is the core learning experience in this course.

Institutional Policies

Student Conduct

Students are subject to disciplinary action for several types of misconduct or attempted misconduct, including but not limited to dishonesty, such as cheating, multiple submission, plagiarism, or knowingly furnishing false information to the University; or theft or misuse of the intellectual property of others or violation of others' copyrights. Students are encouraged to familiarize themselves with policy provisions which proscribe these and other forms of misconduct at: https://www.uclaextension.edu/pages/str/studentConduct.jsp (https://www.uclaextension.edu/pages/str/studentConduct.jsp)

Services for Students with Disabilities

In accordance with the Americans with Disabilities Act of 1990, UCLA Extension provides appropriate accommodations and support services to qualified applicants and students with disabilities. These include, but are not limited to, auxiliary aids/services such as sign language interpreters, assistive listening devices for hearing-impaired individuals, extended time for and proctoring of exams, and registration assistance. Accommodations and types of support services vary and are specifically designed to meet the disability-related needs of each student based on current, verifiable medical documentation. Arrangements for auxiliary aids/services are available only through UCLA Extension's Service for Students with Disabilities Office at (310) 825-7851 or by email at access@uclaextension.edu (mailto:access@uclaextension.edu). For complete information see: https://www.uclaextension.edu/pages/str/studentswithDisabilities.jsp (https://www.uclaextension.edu/pages/str/studentswithDisabilities.jsp)

Incompletes

Your instructor may post the interim grade *Incomplete/I* if at the end of the class your overall work is of passing quality but a portion could not be submitted for understandable reasons (e.g. illness). It is your responsibility to petition your instructor for permission to submit work late and to provide an explanation, and it is his or her sole decision whether to accept the explanation. If permitted, the *Incomplete*/*I* grade will be posted and a time frame defined for you to submit the missing work, ranging from one to twelve weeks. *Incomplete/I* grades that remain unchanged after twelve weeks will lapse to *F*, *NP* or *U*. Receiving an *I* grade entitles you to submit only the missing work your instructor has agreed to accept late, and does not allow other work to be retaken or oblige UCLA Extension to provide continuing access to course materials via Canvas. The *Incomplete/I* grade is not an option for courses that do not bear credit, such as 700, 800, or 900-level courses. For complete information, see: https://www.uclaextension.edu/pages/str/grading.jsp (https://www.uclaextension.edu/pages/str/grading.jsp)

All Grades are Final

No change of grade may be made by anyone other than the instructor, and then, only to correct clerical errors. No term grade except Incomplete may be revised by re-examination. The correction of a clerical error may be authorized only by the instructor of record communicating directly with personnel of Student and Alumni Services.

Sexual Harassment

The University of California is committed to creating and maintaining a community where all individuals who participate in University programs and activities can work and learn together in an atmosphere free of harassment, exploitation, or intimidation. Every member of the community should be aware that the University prohibits sexual harassment and sexual violence, and that such behavior violates both law and University policy. The University will respond promptly and effectively to reports of sexual harassment and sexual violence, and will take appropriate action to prevent, to correct, and when necessary, to discipline behavior that violates our policy.

All Extension students and instructors who believe they have been sexually harassed are encouraged to contact the Department of Student and Alumni Services for complaint resolution: UCLA Extension, Suite 113, 10995 Le Conte Ave., Westwood; Voice/TTY: (310) 825-7031. View the University's full Policy on Sexual Harassment and Sexual Violence at http://policy.ucop.edu /doc/4000385/SHSV (http://policy.ucop.edu/doc/4000385/SHSV).

≡ Additional Items

About Your Online Course Materials

Please note the following about online course components at UCLA Extension:

- Students must have basic computer skills, including the use of word processing software, email, and the ability to use internet browsers, such as Safari, Firefox, or Chrome.
- Students are responsible for meeting the technical requirements of Canvas and familiarizing themselves with the Canvas Learning Management System.
    - What are the basic computer specifications for Canvas? https://guides.instructure.com/m/4214/l/82542-what-are-the-basic-computer-specifications-for-canvas (https://guides.instructure.com/m/4214/l/82542-what-are-the-basic-computer-specifications-for-canvas)
    - Which browsers does Canvas support? https://guides.instructure.com/m/67952/l/720329-which-browsers-does-canvas-support (https://guides.instructure.com/m/67952/l/720329-which-browsers-does-canvas-support)
- Students are responsible for keeping a copy of all assignments and work submitted, and to be aware of all assignments, due dates, and course guidelines.
- Students are encouraged to keep and/or download a local copy of their assignment files, as **access to the online environment of a specific course is limited to 30 days after the final course date**, as listed in the course catalog.

    If you need assistance downloading student materials from your course, please contact Canvas Support or the UCLA Extension Learning Support Team.

UCLA Extension Learning Support

Email: support@unexonline.zendesk.com (mailto:support@unexonline.zendesk.com)
Phone: Toll-free at (866) 269-7289 (US only) or (310) 206-4563.

Monday - Friday, 7am to 6pm (Pacific Time).

Website: http://support.uclaextension.edu (http://support.uclaextension.edu/)

The UCLA Extension learning support team assists both students and instructors with Canvas-related technical support, as well as general administrative questions.

For additional support on using Canvas or addressing a technical issue:

Click on the "Help" button on the lower left corner of the screen from within the Canvas system, where you can chat live with a technical support agent or submit a ticket for assistance.

📅 Schedule

Course Outline:

Week	Topic	Java For Everyone
1	Introduction	Chap 1
2	Java language syntax and flow control	Chap 2-3
3	Loops, Methods, Arrays	Chap 4, 5, 6
4	Objects and Classes	Chap 8
5	Inheritance	Chap 9.1, 9.2, 9.3
6	Polymorphism	Chap 9.4
7	Interfaces	Chap 9.6
8	Exception handling	Chap 7.4, 7.5
9	Input/Output Streams	Chap 7.1 - 7.3

| 10 | Final Project | |