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# THE AMERICAN UNIVERSITY OF PARIS

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| COURSE TITLE:  | INTRO TO COMPUTER PROGRAMMING II | **COURSE NO:** |  |
| PREREQUISITES: | CS1040 | **SEMESTER:**  | **Spring 2020** |
| **PROFESSOR:** |  | **CREDITS:** | **4** |
| **CLASS SCHEDULE:**  | Monday, Wednesday, and Thursday 1:45-3:05 | **ROOM NO:** | PL-5 (2bis, Passage Landrieu) |
| **OFFICE HOURS:****OFFICE NUMBER:****OFFICE TEL EXT:** | By appointment | **PERIOD (S):** |  |
| **CONTACT:**  |  |

**COURSE DESCRIPTION:**

This is the second part of the foundation course for the Information and Communication Technologies degree program. Successful students will have a thorough knowledge of the computer language Java, the systematic development of programs, problem-solving and a knowledge of some of the fundamental algorithms of computer science. Essential concepts include inheritance, polymorphism, and error-handling, using exceptions.

**STUDENT LEARNING GOALS:**

Students who successfully complete this course should be able to write, build and test java programs and should obtain knowledge about all the aspects of the core Java language as well as knowledge on some additional packages as well as different programming paradigms.

**TEXTBOOKS:**

**REQUIRED:** **Daniel Jiang, Introduction to Java Programming, Comprehensive or brief Version 10th edition (or Global edition)**

**ATTENDANCE:** Attendance is mandatory in all classes. In case of an absence, the student should notify the professor in advance. Non-excused absences directly affect the grade. Four or more non-excused absences might result in an “F” for the course.

**GRADING:**

Online exercises: 20%

Exercises: 40%

Midterm: 15%

Final: 25%

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| **ATTENDANCE POLICY:**Students studying at The American University of Paris are expected to attend ALL scheduled classes, and in case of absence, should contact their professors to explain the situation.  It is the student’s responsibility to be aware of any specific attendance policy that a faculty member might have set in the course syllabus.  The French Department, for example, has its own attendance policy, and students are responsible for compliance.  Academic Affairs will excuse an absence for students’ participation in study trips related to their courses. **Attendance at all exams is mandatory.** IN ALL CASES OF MISSED COURSE MEETINGS, THE RESPONSIBILITY FOR COMMUNICATION WITH THE PROFESSOR, AND FOR ARRANGING TO MAKE UP MISSED WORK, RESTS SOLELY WITH THE STUDENT. Whether an absence is excused or not is ALWAYS up to the discretion of the professor or the department. Unexcused absences can result in a low or failing participation grade. In the case of excessive absences, it is up to the professor or the department to decide if the student will receive an “F” for the course.  An instructor may recommend that a student withdraw, if absences have made it impossible to continue in the course at a satisfactory level. Students must be mindful of this policy when making their travel arrangements, and *especially during the Drop/Add and Exam Periods.*  |
| **ENGLISH LANGUAGE PROFICIENCY STATEMENT:** As an Anglophone university, The American University of Paris is strongly committed to effective English language mastery at the undergraduate level. Most courses require scholarly research and formal written and oral presentations in English, and AUP students are expected to strive to achieve excellence in these domains as part of their course work. To that end, professors include English proficiency among the criteria in student evaluation, often referring students to the university Writing Lab where they may obtain help on specific academic assignments. Proficiency in English is monitored at various points throughout the student's academic career, most notably during the admissions and advising processes, while the student is completing general education requirements, and during the accomplishment of degree program courses and senior theses. |

**CLASS SCHEDULE:**

***January***

***Week I – 13th – 17th***

Topics: Introduction and data types

Reading: Chapters 1-8

**January 19th – last day to drop/add courses online**

***Week II – 20th – 24th***

Topics: Classes and Objects

Reading: Chapter 9

***Week III –27th– 31st***

Topics: OOP thinking

Reading: Chapter 10

***February***

***Week IV –3rd – 7th***

Topics: Inheritance

Reading: Chapter 11

***Week V –10th – 14th***

Topics: Exceptions

Reading: Chapter 12

***Week VI –17th – 21st***

 ***February 17th – 28th, spring break (no classes)***

***Week VII –24th – 28th***

 **March 11th, Mid-semester**

 ***March***

 **March 13th, Mid-semester grades due**

***Week VIII – 2nd – 6th***

Topics: Abstract Classes

Reading: Chapter 13

***Week IX - 9th – 13th***

Topics: Midterm Exam

 ***March 17th, Faculty retreat (no classes)***

***Week X - 16th – 20th***

Topics: JavaFX basic

Reading: Chapter 14

***Week XI – 23rd – 27th***

Topics: Event Driven Programming

Reading: Chapter 15

 ***March 27th, last* day to withdraw from a course,**

 **last day to choose the CR/NC grading option**

***Week XIII – 30th – 3rd (April)***

Topics: JavaFX

Reading: Chapter 16

***April***

***Week XIV – 6th – 10th***

Topics: IO

Reading: Chapter 17

***Week XV – 13th – 17th***

Topics: Recursion

Reading: Chapter 18

 ***April 13th, Easter Monday (no classes)***

***Week XVI – 20th – 24th***

Topics: Complexity

Reading: Chapter 22

***Week XVII – 27th – 1st (May)***

Topics: Reviewing

Reading: Chapter 1-18, 22

 **April 28th, last day of classes,**

 **April 29th – 3rd May, reading days *(May 1st, Holiday*)**

 **May 4th – 8th, final exams**

 **May 12th, Degree candidates grades due**

 **May 19th, all grades due**