

COM 116, 117, Programming I, II

American University of Central Asia
Software Engineering Department

1 Course Information

Course ID

COM 116, 2967

COM 117, 2968

Course Repository

<https://github.com/auca/com.116-117>

Place

AUCA, room 410

AUCA, laboratory G30, G31

Time

Lecture: Tuesday 12:45

Lecture: Tuesday 14:10

Lab: Thursday 9:25

Lab: Thursday 10:50

Lab: Thursday 12:45

Lab: Thursday 14:10

2 Contact Information

Instructor

Shostak Dmitrii Grigorievich

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Office

AUCA, room 315

AUCA, Media Laboratory

Office Hours

Monday 12:45–17:00

Tuesday 15:35–17:00

Thursday 12:45–17:00

Friday 12:45–17:00

3 Course Overview

This course helps to equip students with basic skills needed for object-oriented programming. At the completion of the course students should understand fundamental object-oriented concepts such as object, class, method, inheritance and polymorphism; be able to write simple applications using most of the capabilities of Java and apply principles of good programming practices throughout the process. This course is designed for Software Engineering majors and minors.

4 Topics Covered

- Introduction to the Process of Software Development
- Selections
- Loops
- Methods
- Single- and Multidimensional Arrays
- Objects and Classes
- Inheritance and Polymorphism
- Abstract Classes and Interfaces
- Exception Handling
- GUI and Computer Graphics Basics
- Generics and Container Classes
- Working with I/O

5 Exams

5.1 Lectures

Students will have to take midterm and final examinations on topics discussed during lectures. Each examination is in the form of a quiz with a set of open and multiple choice questions.

5.2 Labs

Students will have 8 laboratory tasks, get a number of problems from an Online Judge System, and have to finish two projects developing real-world applications. Students will have to defend their work to the instructor during separate midterm and final examination sessions.

6 Reading

Introduction to Java Programming, Comprehensive, 8th Edition by Y. Daniel Liang
(AUCA Library Call Number: QA76.73.J38 L5218 2011, ISBN: 978-0132130806)

7 Grading

7.1 Lectures

- Midterm (20%)
- Final (20%)

7.2 Labs

- Labs 1–4 (10%)
- Online Judge Problems (10%)
- Project #1 (10%)

Midterm Defense (Labs + Online Judge Problems + Project #1)

- Labs 5–8 (10%)
- Online Judge Problems (10%)
- Project #2 (10%)

Final Defense (Labs + Online Judge Problems + Project #2)

- 92%–100%: A
- 85%–91%: A-
- 80%–84%: B+
- 75%–79%: B
- 70%–74%: B-
- 65%–69%: C+
- 60%–64%: C
- 55%–59%: C-
- 50%–54%: D+
- 45%–49%: D
- 40%–44%: D-
- Less than 40%: F

8 Rules

Students are required to follow the rules of conduct of the Software Engineering Department and American University of Central Asia.

Team work is NOT encouraged. The same blocks of code or similar structural pieces in separate works will be considered as academic dishonesty and all parties will get zero for the task.

Attendance is mandatory. Three or more skipped classes without a legitimate reason will decrease the final grade by 5% for each day.