

Information Security

International University of Central Asia
Information Technology Program

1 Course Information

Course Repositories

<https://github.com/iuca/iuca-infosec>

Class Discussions

<https://piazza.com/iuca.kg/fall2018/iuca-infosec>

Place

TBD

Time

TBD

2 Prerequisites

TBD

3 Contact Information

Instructor

Toksaitov Dmitrii Alexandrovich
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Office

TBD

Office Hours

TBD

4 Course Overview

In this introductory course on information security, students will learn about basic concepts, principles, and fundamental approaches to secure computers and various types of software and network systems.

5 Topics Covered

- Basics of information security
- Security management and risk assessment
- Desktop software security
- Web and mobile software security
- Operating systems security
- Network security
- Cryptography algorithms and protocols
- Malware
- Privacy, legal and ethical issues

6 Practice Tasks

Students are required to finish several practice tasks. The tasks are based on topics discussed during lectures.

7 Course Project

The course project will be to audit a working open-source system to find vulnerabilities and fix them.

8 Final Exam

At the end of the course, students have to take the final examination in a form of a quiz with a number of multiple choice questions on topics discussed during classes.

9 Reading

1. Applied Information Security: A Hands-on Approach, 1st edition by David Basin, Patrick Schaller, Michael Schlpfer (ISBN: 978-3642244735)

10 Grading

- Practice tasks (30%)
- Course project (40%)
- Final examination (30%)

- 90%–100%: A
- 80%–89%: A-
- 70%–79%: B+
- 65%–69%: B
- 60%–64%: B-
- 56%–59%: C+
- 53%–55%: C
- 50%–52%: C-
- 46%–49%: D+
- 43%–45%: D
- 40%–42%: D-
- Less than 39%: F

11 Rules

Students are required to follow the rules of conduct of the Information Technology Program and International University of Central Asia.

Team work is NOT encouraged. Equal 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.