

# 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

Room 217

### Time

Tuesday, 9:30–10:50

Thursday, 11:05–12:25

## 2 Contact Information

### Instructor

Toksaitov Dmitrii Alexandrovich  
[toksaitov\\_d@iuca.kg](mailto:toksaitov_d@iuca.kg)

### Office Hours

Monday–Friday, 19:00–21:00

Remotely through Skype at [toksaitov@hotmail.com](mailto:toksaitov@hotmail.com)

## 3 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.

## 4 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

## 5 Practice Tasks

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

## 6 Course Project

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

## 7 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.

## 8 Reading

Computer Security, Principles and Practice, Third Edition by William Stallings and Lawrie Brown (ISBN: 978-0133773927)

## 9 Grading

- Practice tasks (30%)
- Course project (40%)
- Final examination (30%)
  - 94%–100%: A
  - 90%–93%: A-
  - 87%–89%: B+

- 84%–86%: B
- 80%–83%: B-
- 77%–79%: C+
- 74%–76%: C
- 70%–73%: C-
- 67%–69%: D+
- 64%–66%: D
- 60%–63%: D-
- Less than 60%: F

## 10 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.