



Lincoln University

CS 10 – Introduction to Computer Science

COURSE SYLLABUS

Spring 2017

Professor: Prof. Sergey Aityan, PhD, DSc
Lecture Schedule: Wednesday, 9:00 AM – 11:45 AM
Credits: 3 units (45 lecture hours)
Office Hours: Monday 11:15 AM – 12:15 PM
Wednesday 11:45 AM – 12:30 PM
Students are advised to schedule appointments by signing their names on the appointment list which is located on the information board next to the professor's office that will ensure exact appointment time without waiting.
e-mail: aityan@lincolnuca.edu
■: (510) 628-8016

Textbook:

- 1. Textbook:**
Gary Shelly and Misty Vermaat (2013).
Enhanced Discovering Computers. Introductory: Your Interactive Guide to the Digital World
ISBN-10: 1-111-53048-3
ISBN-13: 978-1-111-53048-8
*** previous editions of this book are okay too ***

- 2. Textbook:**
Sergey Aityan (2012). *Practical Guide to PC and Microsoft Office 2010: Word, Excel, PowerPoint, CreateSpace*
ISBN-10: 1478371129
ISBN-13: 978-1478371120

Last Revision: January 25, 2017

CATALOG DESCRIPTION

An introduction to the principles and concepts of computer science and its applications. Discussions focus on the use of computers in business and personal lives, computer System basics, computer architecture, hardware, systems and applications software, programming languages, software engineering, data communications, information systems, the history of computing and computer's impact on society. Introduction to the Internet and online information sources. Laboratory on use of computer hardware and software. (3 units)

COURSE OBJECTIVES

Students will learn about the latest available computers, networking, and the Internet technologies, practice the use of the Microsoft Windows operating system, business applications in the Microsoft Office 2010 package, and the use of open source software and the Internet applications and resources.

REQUIREMENTS

Continuous assessment is emphasized. Written or oral quizzes will be given every week. Reading and writing home tasks, problem solving, and “business case study” assignments will be made throughout the course. Students must complete all home tasks, other assignments, and take all quizzes, mid-term exam and final exam on the dates due. Zero tolerance to plagiarism and cheating is enforced. Plagiarism or cheating will result in grade “F” (with zero points) and a report to the administration.

ATTENDANCE

Students are expected to attend each class session. If you cannot attend class due to a valid reason, please notify the instructor prior to the class.

EXAMS

Both, midterm and final exams are structured as written essay to answer the given questions. Each exam includes six questions. The essay must be written clearly and easy to read, structurally with clear logical presentation of the answers. Graphs, charts, tables, and other supporting illustrations are required if needed. Examples to illustrate the answers are required.

Exams will cover all assigned chapters, any additional readings or supplementary materials covered in class. The final exam is comprehensive, i.e. includes the whole course. The exams are neither “open book” nor “open notes.”

Cheating in exam results in immediate termination of the exam, grade “F” with ZERO points, and report to the dean.

GRADING AND SCORING

All activities will be graded according to the points as shown below.

Grade	A	A-	B+	B	B-	C+	C	C-	D+	D	F
Points	93-100	90-92	87-89	83-86	80-82	77-79	73-76	70-72	67-69	60-66	0-59

In exams, every answer is graded by points from 0 to 100 and the total points for an exam are calculated as the average of the points received for all answers in the exam.

The final grade for the course will be given as the total weighted score for all activities according to the percentage shown in the table below.

Activity	Time	Percent
Quizzes, home tasks, and classroom activities	Every week	30%
Mid-term exam	In the middle of the course	35%
Final exam	Last week of the course	35%

If both grades for the midterm and final exams are “F” the term grade for the course is “F” regardless of the grades for other activities.

MAKE-UP WORK

Assignments are to be completed on time during the course. Late assignments will result in a reduced grade. Mid-term and final exams and group presentations cannot be made up if missed unless there is a documented emergency.

COURSE SCHEDULE

Lectures		Topic	Chapters	
#	Date		Lectures	Textbook
1	18-Jan	(a) About the Course (b) Introduction to Computers	Ch. 1	Ch. 1
2	25-Jan	The Internet and World Wide Web	Ch. 3	Ch. 3
3	1-Feb	Application Software	Ch. 3	Ch. 3
4	8-Feb	MS Office	Ch. 4	
5	15-Feb	HTML	Ch. 5	
6	22-Feb	The Components of the System Unit	Ch. 6	Ch. 4
7	1-Mar	Input	Ch. 7	Ch. 5
8	8-Mar	Output	Ch. 8	Ch. 6
	15-Mar	Easter Break – No classes		
9	22-Mar	Midterm Exam	Ch. 1-8 as in lectures	
10	29-Mar	Storage	Ch. 9	Ch. 7
11	5-Apr	Operating Systems and Utility Programs	Ch. 10	Ch. 8
12	12-Apr	Communications and Network	Ch. 11	Ch. 9
13	19-Apr	Database Management	Ch. 12	Ch. 10
14	26-Apr	Computer Security and Safety, Ethics and Privacy	Ch. 13	Ch. 11
15	3-May	Comprehensive Final Exam	Ch. 1-13 as in lectures	

OTHER COMMENTS

- Please participate. What you put into the class will determine what you get out of it – and what others get out of it.
- Please come on time. Late arrivals disturb everyone else.
- If you miss a class, you are responsible for getting notes/slide printouts on the material covered from a classmate or the instructor.
- To avoid distracting noise in class, cellular phones must be turned off or the ringing mode silenced.
- Questions and comments during the class are welcome. Do not hesitate to ask questions – do not leave anything unclear for you.

MODIFICATION OF THE SYLLABUS

The instructor reserves the right to modify this syllabus at any time during the semester. Announcements of any changes will be made in a classroom.