Efi Arzi School of Computer Science

BA in Computer Science

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A great deal of effort has been expended in preparing this Handbook, in order to ensure that its content is complete and accurate.

However, changes and alterations to the information are possible. **Such changes, which will be published during the course of the year** via various means, such as, the handbook on the IDC Herzliya website, will obligate the entire student body.

Furthermore, **changes that are published through notifications and circulars will obligate the entire student body.**

The IDC Herzliya Academic Authorities are at liberty to cancel, alter or add studies subjects and /or specialization programs, and to generate changes in the times of lectures or in the manning of the subject instructor posts, at its discretion. These changes apply to all IDC Herzliya students, including students of the Raphael Recanati International School, unless specified otherwise.

This Student Handbook has been specially prepared for the Raphael Recanati International School and includes translations of relevant sections of IDC Herzliya's Hebrew Student Handbook. If any discrepancies are found between the two, the Hebrew version will take precedence. Certain sections of the Hebrew version pertain specifically to law students and thus may be disregarded by students of the International School.

Introduction to the Program

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Considerable effort has been dedicated to produce this informational booklet and insure its accuracy. Nevertheless, the information is subject to periodic revisions that will be published throughout the academic year by various means, such as the IDC website, and by which the students are obligated.

Students are also obligated by any revisions published in memorandums and notifications.

The Interdisciplinary Center Herzliya reserves the right to add, remove, or change disciplines and/or specialization programs, as well as change curriculum hours and faculty assignments at its discretion.

Introduction

The curriculum of the undergraduate degree (BA) in computer science includes:

- 16 required and elective courses in computer science
- 7 required courses in mathematics
- 3 English courses
- 5 business administration or economics courses
- 4 general elective courses

First Year

First-year students are required to take basic courses in Computer Science, Mathematics, and English. This year is dedicated to compulsory courses only, comprising 50 credits (including English courses).

Second Year

Second-year students are required to take primarily compulsory courses in computer science, as well as business administration/economics courses. Students are also required to take an elective specialization course. This year comprises 44 credits.

Third year

Third-year students are required to complete their compulsory computer science, English, and business administration/economic requirements, and take elective specialization courses. This year comprises 25 semester hours.

In addition to the curriculum, each student must take general elective courses comprising eight semester hours (as detailed in each year's curriculum), to expand their horizons throughout their studies.

Students may choose elective courses out of all courses offered on campus, providing courses are available and students meet their prerequisites. Registration for cross-campus courses will be done by applying to the Student Administration at the end of the registration period.

Overall, students are required to take about 127 credits.

The computer science curriculum includes a business administration or economics path as well. Starting in the second school year, students have three computer science specialization electives to choose from:

- Standard undergraduate computer science courses: This includes four specialization electives the students choose from a list of all computer science specialization courses offered in the program.

- Cyber Security Systems in the Internet Era: This includes four specialization electives the students choose from a list of courses focusing on cyber security, as detailed in the program's curriculum.

- Computer Games and Interactive Media Design: This includes four specialization electives the students choose from a list of courses focusing on computer games, as detailed in the program's curriculum.

Program of Studies

First Year

Course Code	Course Name	Lecture Hours	Recitation Hours	Total Credit Points	Prerequisites	Final Course Assignment
Fall Semester Courses						
52	Calculus I Dr. Yossi Shamai	4	2	6		Exam
54	Linear Algebra I Mr. Jacob Ouanounou	4	2	6		Exam
56	Discrete Mathematics Dr. Elette Boyle	3	2	5		Exam
417	Introduction to Computer Science Dr. Yechiel Kimchi		2	6		Exam
110	English for CS Advanced 1 Ms. Noa Kadman	3		0		Exam
3111	English for CS Advanced 2 Dr. Miriam Symon	3		2		Exam
281	English for CS–Reading course Ms. Rebecca Haddad	2		2		Exam
Spring Semester Courses						
53	Calculus II Dr. Yossi Shamai	3	2	5	Calculus I	Exam
55	Linear Algebra II	3	2	5	Linear Algebra I	Exam
59	Data Structures Prof. Yael Moses	3	2	4	Int. to CS	Exam
69	Logic and Set Theory Dr. Elette Boyle	3	2	5	Discrete Math	Exam
3030	Advanced Programming Dr. Tal Moran	3	1	4	Intro. to CS	Exam
281	English for CS–Reading course Dr. Gal Manor	2		2		
110	English for CS Advanced 2 Ms. Noa Kadman	3		2	English for CS Advanced 1	Exam
	Total Credits			50		

In addition to the mandatory courses, all CS students are required to take 8 credits of General Elective Courses during the course of their studies. The courses can be chosen from the General Studies Unit (see file on the IDC website) and from other IDC schools.

Exam Schedule

The dates of the examinations can be found on the IDC Herzliya website under Students > Student Information > Course Catalog, Student Regulations and Syllabus > Search Exams

A personal examinations schedule is published at the Student's Information website (My IDC).