NEAR EAST UNIVERSITY

FACULTY OF ECONOMICS AND ADMINISTARTIVE SCIENCES

BSc PROGRAM in COMPUTER INFORMATION SYSTEMS

COURSE CATALOGUE

2021-22 FALL

➢ QUALIFICATION AWARDED

The students who successfully complete the program are awarded the degree of Bachelor of Science in Computer Information Systems.

➢ LEVEL OF QUALIFICATION

This is a First Cycle (Bachelor's Degree) program

➢ SPECIFIC ADMISSION REQUIREMENTS

In the framework of the regulations set by Higher Education Council of Turkey (YÖK), student admission for this undergraduate program is made through a university entrance examination called YKS. Following the submission of students' academic program preferences, Student Selection and Placement Center (ÖSYM) places the students to the relevant program according to the score they get from ÖSYS.

International students are accepted to this undergraduate program according to the score of one of the international exams they take such as SAT, ACT and so on, or according to their high school diploma score.

Exchange student admission is made according to the requirements determined by bilateral agreements signed by NEU and the partner university.

Visiting students can enroll for the courses offered in this program upon the confirmation of the related academic unit. Additionally, they need to prove their English language level since the medium of instruction of the program is English.

➢ QUALIFICATION REQUIREMENTS AND REGULATIONS

The students studying in this undergraduate program are required to have a Cumulative Grade Points Average (CGPA) of not less than 2.00/4.00 and have completed all the courses with at least a letter grade of DD/S in the program in order to graduate. The minimum number of ECTS credits required for graduation is 240. It is also mandatory for the students to complete their compulsory internship in a specified duration and quality.

➢ RECOGNITION OF PRIOR LEARNING

At Near East University, full-time students can be exempted from some courses within the framework of the related bylaws. If the content of the course previously taken in another institution is equivalent to the course offered at NEU, then the student can be exempted from this course with the approval of the related faculty/graduate school after the evaluation of the course content.

➢ PROFILE OF THE PROGRAM

It is one of the objectives of the undergraduate degree programme to prepare the students for the highly competitive job market and give them the necessary experience and skills so that they are motivated, knowledgeable, and confident individuals while searching for a job after graduating. Students broaden their practical knowledge of computers and business studies skills by spending a short time in industry or in an office under the supervision of a computer expert. This gives them an experience and an understanding of the real-life problems and prepares them for responsible positions in the commercial market places by combining a strong background in information technology with a strong foundation in business administration. The main

objects of Computer Information Systems undergraduate degree programme are outlined as follows:

- To acquire graduates' common competencies that are essential for carrying out fundamental processes in their life-long profession and learning within society.
- To equip graduates with technical competences that are associated to the demands of the professional areas associated with their degree.
- To provide graduates in-depth specialized competencies in the areas of computer science, information systems, software engineering and information technology to solve problems in specific academic, professional or social settings.

➤ **PROGRAM OUTCOMES**

Program Outcomes	
1	Effective oral and written communication skills.
2	To be able to achieve teamwork.
3	Information literacy skills in lifelong learning.
4	Understand and apply IT skills.
5	Analyze, evaluate and manage IT skills.
6	Specializations related to Computer Science.
7	Specializations related to Information Systems.
8	Specializations related to Software Engineering.
9	Specializations related to Information Technology.

➤ **COURSE & PROGRAM OUTCOMES MATRIX**

Course Code	Course Name	Program Outcomes								
		1	2	3	4	5	6	7	8	9
ENG101	ENGLISH I	5	5	3	4	4	1	1	1	1
MTH171	MATHEMATICS FOR BUSINESS AND ECONOMICS I	4	3	4	3	4	2	1	1	1
EAS101	PRINCIPLES OF ECONOMICS I	3	3	4	3	3	1	3	1	1
EAS103	INTRODUCTION TO BUSINESS	4	3	4	3	3	1	4	1	1
CIS131	INTRO. TO COMPUTER INFORMATION SYSTEMS	5	5	5	5	5	5	2	1	2
YİT101/ TUR101	TURKISH FOR INTERNATIONAL STUDENTS I TURKISH LANGUAGE I (TURKISH STDS)	5	4	3						
CAM100	CAMPUS ORIENTATION	5	5	5						

CHC100	CYPRUS: HISTORY AND CULTURE	5	4	3						

1st Year - 2nd Semester

ENG102	ENGLISH II	5	5	3	4	4	1	1	1	1
MTH172	MATHEMATICS FOR BUSINESS AND ECONOMICS II	4	3	4	3	4	2	1	1	1
EAS102	PRINCIPLES OF ECONOMICS II	5	5	5	5	5	1	1	1	1
EAS104	PRINCIPLES OF MANAGEMENT	5	2	3	3	2	1	1	1	1
CIS132	INTRO. TO ALGORITHM AND PROGRAMMING	5	5	4	5	5	5	2	2	1
YİT102/ TUR102	TURKISH II (FOREIGN STDS) TURKISH II (TURKISH STDS)	5	4	3						
CAR100	CAREER PLANNING	5	5	5						

2nd Year - 1st Semester

MAN201	COMMUNICATION FOR BUSINESS I	5	5	5	5	4	1	1	1	1
CIS205	PROGRAMMING LANGUAGE I	5	5	5	5	5	5	5	2	2
MTH261	STATISTICS I	2	3	3	5	4	4	1	1	1
CIS243	DATA STRUCTURES	3	4	3	3	3	5	2	2	2
EAS203	FINANCIAL ACCOUNTING I	4	2	3	3	3	1	1	1	1
AİT101/ AİT103	PRINCIPLES OF ATATURK AND HISTORY OF TURKISH REVOLUTION I (FOR FOREIGNERS) PRINCIPLES OF ATATÜRK I (FOR TURKISH STDS)	1	1	1						

2nd Year - 2nd Semester

CIS202	OPERATING SYSTEMS	3	3	4	5	3	5	2	2	5
CIS232	PROGRAMMING LANGUAGE II	5	5	5	5	5	5	5	2	2
MTH262	STATISTICS II	2	3	3	5	4	4	1	1	1
CIS246	DATABASE MANAGEMENT	3	3	4	5	3	3	5	3	5
CIS---	TECHNICAL ELECTIVE									
AİT102/ AİT104	PRINCIPLES OF ATATURK AND HISTORY OF TURKISH REVOLUTION II (FOR FOREIGNERS) PRINCIPLES OF ATATÜRK II (FOR TURKISH STDS)	1	1	1						

3rd Year - 1st Semester

EAS305	PRINCIPLES OF MARKETING	3	3	4	4	5	2	3	1	1
CIS331	SYSTEMS ANALYSIS METHODS	5	5	5	5	5	5	5	5	5
CIS363	SOFTWARE ENGINEERING	5	5	5	5	5	5	5	5	5
CIS340	INTERNET PROGRAMMING	3	5	5	5	4	5	5	3	5
CIS386	DATABASE PROGRAMMING I	3	5	5	5	5	5	4	4	5

3rd Year - 2nd Semester

EAS308	OPERATIONS RESEARCH AND MANAGEMENT	5	3	3	2	2	1	3	1	1

CIS348	E-BUSINESS SYSTEMS	3	5	5	5	4	3	4	3	5
CIS352	PROGRAMMING LANGUAGE III	5	5	5	5	4	3	5	4	5
CIS342	ETHICAL AND SOCIAL ISSUES IN INFORMATION SYSTEMS	3	3	5	4	3	5	5	3	1
CIS356	OBJECT ORIENTED PROGRAMMING LANGUAGE I	3	5	5	5	3	4	5	4	5
4th Year - 1st Semester										
CIS468	OBJECT ORIENTED PROGRAMMING LANGUAGE II	3	5	5	5	3	4	5	4	5
CIS403	GRADUATION PROJECT PROPOSAL	5	5	5	5	4	3	5	4	5
CIS406	SUMMER TRAINING	5	5	5	5	4	3	5	4	5
EAS402	HUMAN RESOURCE MANAGEMENT	2	2	4	1	3	1	1	1	1
CIS---	TECHNICAL ELECTIVE									
CIS---	TECHNICAL ELECTIVE									
CIS---	TECHNICAL ELECTIVE									
4th Year - 2nd Semester										
CIS411	MANAGEMENT INFORMATION SYSTEMS	5	4	4	3	3	5	4	1	1
CIS400	GRADUATION PROJECT	5	5	5	5	5	5	5	5	5
CIS---	TECHNICAL ELECTIVE									
CIS---	TECHNICAL ELECTIVE									
CIS---	TECHNICAL ELECTIVE									
CIS---	TECHNICAL ELECTIVE									
Technical (Field-Related) Elective Courses										
CIS250	INFORMATION SYSTEMS FOR COMMUNICATION	3	4	5	3	3	5	5	2	2
CIS460	DEVELOPMENT MOBILE APPLICATION	2	5	4	5	4	4	5	2	5
CIS488	WEB DEVELOPMENT	2	5	5	5	4	3	5	3	5
CIS420	INFORMATION SYSTEMS SECURITY	3	3	4	4	3	5	3	1	5
CIS421	SOFTWARE TESTING	5	3	5	5	5	5	4	5	5
CIS430	INFORMATION SYSTEMS FOR COMMUNICATION	3	3	4	5	5	5	5	1	5
CIS435	E-LEARNING SYSTEMS	3	4	4	2	4	3	5	1	1
CIS450	IT PROJECT MANAGEMENT	3	5	5	4	4	3	5	5	5

* 1 Lowest, 2 Low, 3 Average, 4 High, 5 Highest

> **OCCUPATIONAL PROFILES OF GRADUATES**

Graduates from our programme can virtually find jobs in all places where computers are used. Graduates of the department are ready to enter into the fields such as systems analysis, application programming, network management, and information systems management. Some popular working areas of our graduates are: All kinds of government offices, IT departments of private and public companies

communications and networking departments, IT consultancy, research and development, and education. Some of the most common employment opportunities for graduates can be IT managers, development managers, project managers, system analysts, IT consultants, IT project managers, database designers and software developers, database administrators, network systems administrators and ınformation systems security administrators.

➢ **ACCESS TO FURTHER STUDIES**

The students graduating from this program may apply to graduate programs.

➢ **PROGRAM STRUCTURE**

The undergraduate program in Computer Information Systems consists of 50 courses with 240 ECTS credits in total. There are at least 5 courses in each semester, excluding common compulsory courses and elective courses.

In each program, there are common compulsory courses identified by the Higher Education Council of Turkey (YÖK) and other common courses determined by the University Senate.

Beginning from the Sophomore (second) year, elective courses are anticipated in each semester. 25% of the elective courses are taken from other faculties. There are at least 8 elective courses in each undergraduate program.

COURSES OFFERED THROUGHOUT THE UNIVERSITY		
Common University Courses	Campus Orientation	The students are registered to this course at the beginning of the first semester of the freshman year to familiarize them with the campus life at NEU.
	Career Planning	The students are registered to this course at the beginning of their second semester of the freshman year to help them prepare for work life after graduation.
	Cyprus History and Culture	This course is taken by students in their freshmen year and it aims to help them to familiarize them with the local history and culture.
Common Compulsory Courses (YÖK Courses)	Turkish Language I-II (Turkish for Foreigners I & II to replace this course for international students) Principles of Atatürk and History of Revolution I-II	These are the compulsory courses which are required to be offered in all of the associate and undergraduate programs in Turkey according to the Higher Education Legislation.
	Information Technologies	This course is anticipated in all the associate and undergraduate programs in Turkey in order to make the students gain the qualifications related to basic information technologies.
	Foreign Language (ENGLISH) I & II	This course is offered in the first and second semester and conducted according to the program curriculum of each faculty.

➢ COURSE STRUCTURE DIAGRAM WITH COURSE CREDITS

To see the course details (such as objectives, learning outcomes, content, assessment and ECTS workload), click the relevant Course Code given in the table below.

1st Year Fall Semester

Course Code	Pre.	Course Name	Theory	Application/ Laboratory	Local Credits	ECTS
ENG101	-	ENGLISH I	3	0	3	3
MTH171	-	MATHEMATICS FOR BUSINESS AND ECONOMICS I	3	0	3	5
EAS101	-	PRINCIPLES OF ECONOMICS I	3	0	3	5
EAS103	-	INTRODUCTION TO BUSINESS	3	0	3	5
CIS131	-	INTRO. TO COMPUTER INFORMATION SYSTEMS	3	0	3	6
YİT101/ TUR101	-	TURKISH FOR INTERNATIONAL STUDENTS I TURKISH LANGUAGE I (TURKISH STDS)	2	0	2	2
CAM100	-	CAMPUS ORIENTATION	0	0	0	2
CHC100	-	CYPRUS: HISTORY AND CULTURE	2	0	2	2
Total						30

1st Year Spring Semester

Course Code	Pre.	Course Name	Theory	Application/ Laboratory	Local Credits	ECTS
ENG102	ENG101	ENGLISH II	3	0	3	3
MTH172	MTH171	MATHEMATICS FOR BUSINESS AND ECONOMICS II	3	0	3	5
EAS102	EAS101	PRINCIPLES OF ECONOMICS II	3	0	3	6
EAS104	EAS103	PRINCIPLES OF MANAGEMENT	3	0	3	6
CIS132	CIS131	INTRO. TO ALGORITHM AND PROGRAMMING	2	2	3	6
YİT102/ TUR102	YİT101/ TUR101	TURKISH II (FOREIGN STDS) TURKISH II (TURKISH STDS)	2	0	2	2
CAR100	-	CAREER PLANNING	0	0	0	2
Total						30

2nd Year Fall Semester

Course Code	Pre.	Course Name	Theory	Application/ Laboratory	Local Credits	ECTS
MAN201	ENG102	COMMUNICATION FOR BUSINESS I	3	0	3	4
CIS205	CIS132	PROGRAMMING LANGUAGE I	2	2	3	6
MTH261	-	STATISTICS I	3	0	3	6
CIS243	CIS131	DATA STRUCTURES	3	0	3	6
EAS203	EAS102	FINANCIAL ACCOUNTING I	3	0	3	6
AİT101/ AİT103		PRINCIPLES OF ATATURK AND HISTORY OF TURKISH REVOLUTION I (FOR FOREIGNERS) PRINCIPLES OF ATATÜRK I (FOR TURKISH STDS)	2	0	2	2
Total						30

2nd Year Spring Semester

Course Code	Pre.	Course Name	Theory	Application/ Laboratory	Local Credits	ECTS
CIS202	CIS131	OPERATING SYSTEMS	3	0	3	6
CIS232	CIS205	PROGRAMMING LANGUAGE II	2	2	3	6
MTH262	MTH261	STATISTICS II	3	0	3	6
CIS246	CIS243	DATABASE MANAGEMENT	2	2	3	6
CIS---	CIS132	TECHNICAL ELECTIVE	2	2	3	4
AİT102/ AİT104	AİT101/ AİT103	PRINCIPLES OF ATATURK AND HISTORY OF TURKISH REVOLUTION II (FOR FOREIGNERS) PRINCIPLES OF ATATÜRK II (FOR TURKISH STDS)	2	0	2	2
Total						30

3rd Year Fall Semester

Course Code	Pre.	Course Name	Theory	Application/ Laboratory	Local Credits	ECTS
EAS305	EAS102	PRINCIPLES OF MARKETING	3	0	3	6
CIS331	CIS132	SYSTEMS ANALYSIS METHODS	3	0	3	6
CIS363	CIS232	SOFTWARE ENGINEERING	3	0	3	6
CIS340	CIS246	INTERNET PROGRAMMING	2	2	3	6
CIS386	CIS246	DATABASE PROGRAMMING I	2	2	3	6

Total						**30**

3rd Year Spring Semester

Course Code	Pre.	Course Name	Theory	Application/ Laboratory	Local Credits	ECTS
EAS308	EAS102	OPERATIONS RESEARCH AND MANAGEMENT	3	0	3	5
CIS348	CIS340	E-BUSINESS SYSTEMS	2	2	3	6
CIS352	CIS132, CIS386	PROGRAMMING LANGUAGE III	2	2	3	7
CIS342	-	ETHICAL AND SOCIAL ISSUES IN INFORMATION SYSTEMS	3	0	3	5
CIS356	CIS132	OBJECT ORIENTED PROGRAMMING LANGUAGE I	2	2	3	7
Total						**30**

4th Year Fall Semester

Course Code	Pre.	Course Name	Theory	Application/ Laboratory	Local Credits	ECTS
CIS468	CIS205	OBJECT ORIENTED PROGRAMMING LANGUAGE II	2	2	3	7
CIS403		GRADUATION PROJECT PROPOSAL	3	0	3	3
CIS406		SUMMER TRAINING	0	0	0	3
EAS402	EAS102	HUMAN RESOURCE MANAGEMENT	3	0	3	5
CIS---		TECHNICAL ELECTIVE	2	2	3	4
CIS---		TECHNICAL ELECTIVE	2	2	3	4
CIS---		TECHNICAL ELECTIVE	2	2	3	4
Total						**30**

4th Year Spring Semester

Course Code	Pre.	Course Name	Theory	Application/ Laboratory	Local Credits	ECTS
CIS411	CIS386	MANAGEMENT INFORMATION SYSTEMS	3	0	3	7
CIS400	CIS403	GRADUATION PROJECT	3	0	3	7
CIS---		TECHNICAL ELECTIVE	2	2	3	4
CIS---		TECHNICAL ELECTIVE	2	2	3	4
CIS---		TECHNICAL ELECTIVE	2	2	3	4

CIS---		TECHNICAL ELECTIVE	2	2	3	4
Total						30

Field-Related / Technical Elective Courses						
Code	Pre.	Course Name	Theory	Application/ Laboratory	Local Credits	ECTS
CIS250	CIS131	INFORMATION SYSTEMS FOR COMMUNICATION	2	1	3	4
CIS460	CIS356	DEVELOPMENT MOBILE APPLICATION	2	1	3	4
CIS488	CIS132, CIS246	WEB DEVELOPMENT	2	1	3	4
CIS420	CIS416	INFORMATION SYSTEMS SECURITY	2	1	3	4
CIS421	CIS205	SOFTWARE TESTING	2	1	3	4
CIS430	CIS250	INFORMATION SYSTEMS FOR COMMUNICATION	2	1	3	4
CIS435	CIS488	E-LEARNING SYSTEMS	2	1	3	4
CIS450	CIS363	IT PROJECT MANAGEMENT	2	1	3	4

Additional Notes
A total of 240 ECTS credits of courses are required to graduate. The Computer Information Systems students must complete technical and non-technical elective courses to provide a total of 240 ECTS credits. Otherwise, they will not be deemed to fulfill the conditions to graduate from the program. The students of Computer Information Systems department must take 8 technical elective courses to graduate. These courses must be selected from the Technical Elective Courses list. Courses that are not in this list cannot be accepted as technical electives. The list of these courses is updated every semester. ECTS credits of elective courses should be equal or greater than the credits specified in the curriculum.
If you need support for these courses due to your disability, please refer to Disability Support Unit. Contact; engelsiz@neu.edu.tr

> **EXAM REGULATIONS & ASSESSMENT & GRADING**

Exam Regulations and, Assessment, and Grading

For each course taken at NEU, the student is given one of the letter grades below by the instructor as the semester course grade. Each grade has also its ECTS grade equivalent

The table below provides the detailed information about the local letter grades, coefficients and ECTS grade equivalents.

SCORE	GRADE	COEFFICIENT	ECTS Grade
90-100	AA	4.0	A
85-89	BA	3.5	B*
80-84	BB	3.0	B*
75-79	CB	2.5	C*
70-74	CC	2.0	C*
60-69	DC	1.5	D
50-59	DD	1.0	E
49 and below	FF	0.0	F

*for these ones, the higher grade is applied

In order to be successful in a course, short cycle (associate degree) and first cycle (bachelor's degree) students have to get a grade of at least DD, second cycle (master's degree) students have to get a grade of at least CC, and third cycle (Ph.D.) students have to get a grade of at least CB to pass a course. For courses which are not included in the cumulative GPA, students need to get a grade of S.

Apart from that, each local grade has it is equivalent ECTS grade which makes it easier to transfer the grades of mobility periods of students. The chart above shows the ECTS grading system at NEU.

Also, among the Letter Grades;

I	Incomplete
S	Satisfactory Completion
U	Unsatisfactory
P	Successful Progress
NP	Not Successful Progress
EX	Exempt
NI	Not included
W	Withdrawal
NA	Never Attended

Grade of I (Incomplete), is given to students who are not able to meet all the course requirements at the end of the semester or summer school due to a valid justification accepted by the instructor. Students who receive a letter grade "I" must complete their missing course requirements and receive a letter grade within one week following the date the end of semester grades or summer school grades submitted. However, in the event of special cases, this period can be extended until two weeks before the beginning of registration for the next semester, upon the recommendation of the respective Graduate School department head and the decision of that academic unit's administrative board. Otherwise, grade of "I" will automatically become grade of FF, or grade of U.

Grade of S (Satisfactory) is given to students who are successful in non-credited courses.

Grade of U (Unsatisfactory) is given to students who are unsuccessful in non-credited courses.

Grade of P (Successful Progress) is given to students, who continue to the courses that are not included in the GPA that has a period exceeding one semester, and regularly performs the academic studies for the respective semester.

Grade of NP (Not Successful Progress) is given to students, who do not regularly perform the academic studies for the respective semester for courses that are not included in the GPA and have a period exceeding one semester.

Grade of EX (Exempt), is given to students who are exempt from some of the courses in the curriculum.

Grade of NI (Not included) is issued to identify the courses taken by the student in the program or programs which are not included in the GPA of the student. This grade is reported in the students' transcripts with the respective letter grade. Such courses are not counted as the courses in the program that the student is registered to.

Grade of W (Withdrawal) is used for the courses that the student withdraws from in the first ten weeks of the semester following the add/drop period, upon the recommendation of his/ her advisor and the permission of the instructor that teaches the course. A student is not allowed to withdraw from courses during the first two semesters of his/ her associate/undergraduate degree program and from those courses he/she has to repeat and received grade "W" before, which are not included in the grade average. A student is allowed to withdraw from two courses at the most during his/ her associate degree study, and four courses during his/her undergraduate study upon the recommendation of the advisor and the permission of the instructor that teaches the course. A student has to take the course that he/she withdrew from, the first semester in which it is offered.

Grade "NA" (Never Attended) is issued by the instructor for students who fail to fulfil the attendance and/or requirements of the course and/or who lose their right to take the end of semester exam because they failed to take any of the exams administered throughout the semester. Grade "NA" is not considered in the average calculations.

Both the ECTS grades and the local grades of the students are displayed on the official transcript of the students.

➢ GRADUATION REQUIREMENTS

In order to graduate from this undergraduate program, the students are required:

- to succeed in all of the courses listed in the curriculum of the program by getting the grade of at least DD/S with a minimum of 240 ECTS
- to have a Cumulative Grade Point Average (CGPA) of 2.00 out of 4.00
- to complete their compulsory internship in a specified duration and quality.

➢ MODE OF STUDY

This is a full time program.

➢ **PROGRAM DIRECTOR (OR EQUIVALENT)**

Prof. Dr. Nadire Çavuş, Head of Department, Faculty of Economics and Administrative Sciences, Near East University.

➢ **EVALUATION QUESTIONNAIRES**

Evaluation Survey

Graduation Survey

Satisfaction Survey