

CHAIRMAN'S STATEMENT

Dear students,

I welcome you to the Computer Engineering Department of Eastern Mediterranean University. You have surely made the right decision to join our department. As an undergraduate student, you will receive top quality education that is up-to-date from experienced and motivated faculty members and follow a curriculum that is constantly updated to be in line with ACM and IEEE curricula. Furthermore, our undergraduate Software and Computer Engineering programs are ABET accredited, which is assurance for you that when you graduate from these programs you will have excellent job prospects worldwide.

As a department, and as a university, we value international cooperation greatly. Currently, we have an agreement with the University of North Texas (USA), allowing our students to take courses in this university and continue their studies at the Master's level. Details are available on our web site.

We also value the well-being and success of our students. As of the Spring 2022-2023 semester, we started a tutoring program in the department whereby students with high CGPAs in upper classes can become student assistants and tutor other students on topics where they may need assistance. We are continuing this program in the current academic year as well. If you want to serve as a tutor or if you need the help of a tutor for some course, please apply to the departmental administration.

Finally, let me share my thoughts on your education at EMU with you. I urge you to take advantage of everything our department has to offer you to get the best possible education and be well prepared for a hi-tech job in a very competitive job market. Study hard and learn well. In addition, help your fellow students if they need it, find time to socialize with your friends, make good use of our university's extensive sports facilities, enjoy the sea, the sun, the sand and the mild weather on our beautiful island, visit our numerous historic sites, participate in extra-curricular activities by joining student clubs that exist in big numbers in our university, in short have the full student experience at EMU that you will remember for the rest of your life as amazingly good memories. All the while knowing that we are here to help you in all ways possible to achieve your goals.

My best wishes to you all.

Prof. Dr. Zeki Bayram

Chairman

GENERAL INFORMATION

Administration

Chair

Prof. Dr. Zeki Bayram

Vice Chair

Asst. Prof. Dr. Ahmet Ünveren

Department's Mission

The Department of Computer Engineering of Eastern Mediterranean University was established in 1993 and first group of students graduated in 1997. The mission of the department is to train its students to be multilingual, have good communication skills, be ready for teamwork, and qualified to undertake roles in future projects designed for the benefit of society.

Departmental Facilities

EMU Computer Engineering Department Faculty is composed of 10 professors, 1 associate professor, 2 distinguished professors, 2 senior faculty members, 2 assistant professors, 1 instructor and 22 research assistants. In addition, a varying number of student assistants with high grade point averages provide free private lessons to department students who require assistance with their studies.

The education provided in the department is supported by 2 fully equipped general-use computer laboratories, 3 multimedia laboratories, 2 logic design laboratories, 1 iMac laboratory, 1 circuit and electronics laboratory, and 1 artificial intelligence and graduate level research and development laboratory.

Programs

The department currently has four bachelors (BS) level programs: Computer Engineering (in English), Software Engineering (in English), Computer Engineering (in Turkish) and Artificial Intelligence Engineering (in English). The BS students take basic mathematics and physics courses, English courses and introductory computer science and programming courses in their freshman year. In their sophomore and junior years, they take fundamental programming, computer hardware and computer networks courses. In their senior year, BS students take 3 technical elective courses and prepare a graduation project which helps them improve their individual research, written and oral communication skills.

The aim of the MS level Computer Engineering graduate program (established in 1997) is to improve synthesis and design abilities of students, improve their research competence, and enrich their independent study skills. The program has thesis and non-thesis options. Starting from Spring 2022, a new MS in Software Engineering program is also active. The Doctoral (PhD) program (established in 1999) aims to produce academicians who can conduct original research in the Computer Engineering field, become qualified faculty members in universities or perform advanced research in research institutes.

Distinguishing Attributes

The department has proven its competence in Computer Engineering education with the ABET (Accreditation Board for Engineering and Technology) accreditation it received in 2009 for the first time. This accreditation was renewed in 2022 and is valid until 2028. The Software Engineering program received its first accreditation by ABET in 2016 and has been re-accredited in 2022, valid until 2028 as well. Currently it is the only accredited Software Engineering program in Turkey and TRNC.

The Eastern Mediterranean University is ranked within the 601-800 band in Times Higher Education list of best universities in the world for the year 2026.

In many courses, much of the weight is given to term projects, assignments and practical application of knowledge and skills, which helps the students improve their written and oral communication and individual research skills. This approach certainly creates an advantage for our graduates in finding better jobs after graduation.

Major Accomplishments

The Computer Engineering Department, along with its educational responsibilities, is contributing to the economic development of the TRNC with different research projects. Faculty members have participated in a number of European Union projects. The Computer Engineering Department was also involved in the initiation and development of online distance education projects of EMU.

Our students have obtained successful results in many project and programming competitions. A recent example to this is first position by two of our students (in a group of three) in the 2024 Teknofest “Flying Car Simulation” competition.

The department has graduated more than 2450 BS and more than 340 MS students. Some of these graduates are working in international companies in various countries. Most of our 62 PhD graduates are currently academic staff members at universities in various countries.

Quality of Graduates

Our department aims at an education conforming to global standards and is interested in the career conditions of our graduates. In this regard, it continually upgrades the senior year technical electives and improves its programs to meet the current needs of the computer industry. In our English program, more than half of the freshman are foreign students. Some of our graduates are currently enrolled in graduate programs in USA and Europe.

Career Opportunities

Students successfully completing the graduation requirements are granted the BS degree in Computer Engineering, Software Engineering or Artificial Intelligence Engineering. Graduates can find jobs as system administrators, application developers, software engineers, database administrators, software designers and can take part in computer aided industrial applications, or as engineers in research and development projects. Also, a significant number of our graduates are pursuing graduate level degrees and becoming academic staff members in different universities.

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2025 – 2026 ACADEMIC CALENDAR

FALL SEMESTER			
August	04	2025	Online Course Registration For Fall Term 2025 - 2026 Commences
September	01 - 03	2025	2024 - 2025 Summer Term Final Examinations Period
September	04	2025	Religious Day (Mawlid Sep. 03 night)
September	05	2025	Last Day For The Submission Of 2024 - 2025 Summer Term Grades to The Registrar
September	06 - 08	2025	Online Application for Summer Term Graduation Make-up Examinations Period
September	08	2025	Last Day For Submission of The Summer Term Graduation Decisions to The Registrar
September	09	2025	English Proficiency Test 1st Stage *
September	09 - 10	2025	Summer Term Graduation Examinations Period
September	09 - 20	2025	Orientation Days For New Students
September	11	2025	Last Day For The Submission of 2024 - 2025 Spring and Summer Term 'Incomplete' Grades and Graduation Make up Grades To The Registrar
September	11	2025	English Proficiency Test 2nd Stage; Reading, Writing and Listening Sessions
September	12	2025	English Proficiency Test 2nd Stage; Speaking Session
September	12	2025	Last Day for The Submission of Graduation Decisions of Students who will Graduate as a Result of 2023 - 2024 Spring or Summer Term Incomplete Grades or Graduation Make up examination to The Registrar
September	15	2025	Last Day for Graduation of students graduating at the end of 2024 - 2025 Summer Term and Graduation of Students Who Complete Their Graduation Procedures Late
September	16	2025	Last Day For Online Course Registration
September	18	2025	Announcement of English Proficiency Test 2nd Stage Results
September	17 - 19	2025	Course Registration Period (Course Registrations Accompanied by Advisor and Approval of Registration)
September	22	2025	2025 - 2026 Fall Term Classes Commence First Day Of Late Registration
September	29	2025	Last Day For Late Registration
October	03	2025	Last Day For The Submission of 2024 - 2025 Spring and Summer Term Letter Grade Changes To The Registrar
October	06	2025	Last Day For Add / Drop
October	29	2025	National Holiday (Turkish Republic Republic Day)
November	10	2025	Commemoration of Atatürk
November	15	2025	National Holiday (Turkish Republic of Northern Cyprus Republic Day)
November	08 - 22	2025	Mid-Term Examinations Period
November	24	2025	System Will Be Accessible For Entering Courses To Be Offered In Spring Term 2025 - 2026
December	08	2025	Last Day for submission of University Elective Courses to be Offered in the Spring Term of 2025 - 2026 by the Elective Courses Commission to the Rectorate
December	12	2025	Last Day For Course Withdrawal
December	12	2025	Last Day For Entering Courses To Be Offered In Spring Term 2025 - 2026 to the system
December	19	2025	Last Day For Applying To Get Leave Of Absence
December	25	2025	Christmas Day **
December	30	2025	Last Day of Classes
January	01	2026	New Year's Day
January	05 - 20	2026	Final Examinations Period
January	26	2026	Last Day For The Submission Of Grades To The Registrar
January	27	2026	Last Day For Submission of The 2025 - 2026 Fall Semester Graduation Decisions to The Registrar
January	27 - 29	2026	Online Application Period For Resit Examinations
January	30	2026	Online Course Registration For Spring Term 2025 - 2026 Commences
January	30	2026	Fall Term Associate / Undergraduate / Graduate Graduation Ceremony

* Those who are successful in the 1st Stage Exam, must take the 2nd Stage Exam.			
** Attendance will not be taken in classes and no quizzes or any other exams will be administered			
SPRING TERM			
February	03 - 09	2026	2025 - 2026 Fall Term Resit Examinations
February	09 - 15	2026	Orientation Days For New Students
February	10	2026	English Proficiency Test 1st Stage *
February	11	2026	Last Day For The Submission of 2025 - 2026 Fall Term Resit Examinations Grades To The Registrar
February	12 - 13	2026	Start of Online Application for 2025 - 2026 Fall Semester Graduation Make-Up Examinations
February	12	2026	Last Day For The Submission of 2025 -2026 Fall Term 'Incomplete' (I) Grades To The Registrar
February	12	2026	English Proficiency Test 2nd Stage; Reading, Writing and Listening Sessions
February	13	2026	English Proficiency Test 2nd Stage; Speaking Session
February	13	2026	Last Day For Submission Of Graduation Decisions of the Students Who Will Graduate as a Result of 2025 - 2026 Fall Semester Resit Examination To The Registrar
February	16 - 17	2026	2025 - 2026 Fall Semester Graduation Make Up Examination Period
February	17	2026	Last Day For Online Course Registration
February	18	2026	Last Day For The Submission of 2025 - 2026 Fall Term Letter Grade Changes and Graduation Make-Up Grades To The Registrar
February	18 - 20	2026	Course Registration Period (Course Registrations Accompanied by Advisor and Approval of Registration)
February	20	2026	Announcement of English Proficiency Test 2nd Stage Results
February	19	2026	Last Day For Submission Of Graduation Decisions of the Students Who Will Graduate as a Result of 2025 - 2026 Fall Term Graduation Make-Up, Resit Examinations or Incomplete (I) Grades To The Registrar
February	23	2026	2025 - 2026 Spring Term Classes Commence First Day of Late Registration
February	23	2026	Last Day for Graduation for 2025 - 2026 Fall Term Resit Examinations Graduates or Graduation of Students Who Complete Their Graduation Procedures Late
March	02	2026	Last Day For Late Registration
March	09	2026	Last Day For Add / Drop
March	19	2026	Ramadan Bairam Eve
March	20 - 22	2026	Ramadan Bairam
April	10 - 25	2026	Mid-Term Examinations Period
April	23	2026	National Holiday (National Sovereignty & Children's Day)
May	01	2026	National Holiday (Workers' and Spring Day)
May	05	2026	System Will Be Accessible For Entering Courses To Be Offered In Summer Term 2025 - 2026
May	11	2026	Last Day for submission of University Elective Courses to be Offered in the Summer Term of 2025 - 2026 by the Elective Courses Commission to the Rectorate
May	13 - 16	2026	Spring Festival
May	19	2026	National Holiday (Atatürk Commemoration, Youth and Sports Day)
May	22	2026	Last Day For Course Withdrawal
May	26	2026	Kurban Bairam Eve
May	27 - 30	2026	Kurban Bairam
June	01	2026	Last Day For Applying To Get Leave of Absence
June	01	2026	Last Day For Entering Courses To Be Offered In Summer Term 2025 - 2026 to the system
June	11	2026	Last Day of Classes
June	12	2026	System Will Be Accessible For Entering Courses To Be Offered In Fall Term 2026 - 2027
June	15 - 27	2026	Final Examinations Period

June	26	2026	Last Day for submission of University Elective Courses to be Offered in the Fall Term of 2026 - 2027 by the Elective Courses Commission to the Rectorate
July	01 - 15	2026	Online Course Registration Period For Summer Term 2025 - 2026
July	02	2026	Last Day For The Submission of 2025 - 2025 Spring Semester Grades To The Registrar
July	03	2026	Last Day For Submission of The Graduation Decisions To The Registrar
July	03 - 06	2026	Online Application Period For Resit Examinations
July	07	2026	Spring Term Graduate Graduation Ceremony
July	08	2026	Spring Term Associate/Undergraduate Graduation Ceremony
*Those who are successful in the 1st Stage Exam, must take the 2nd Stage Exam.			
SUMMER TERM			
July	09 - 14	2026	2025 - 2026 Spring Term Resit Examinations Period
July	13	2026	Last Day For Entering Courses To Be Offered In 2026 - 2027 Fall Term to the System
July	15	2026	Last Day for Summer Term Online Course Registration
July	16	2026	Last Day For The Submission of 2025 - 2026 Spring Term Resit Examinations Grades To The Registrar
July	16 - 17	2026	Course Registration Period (Course Registrations Accompanied by Advisor and Approval of Registration)
July	17	2026	Last Day For Submission of Graduation Decisions of the Students Who Will Graduate as a Result of 2025 - 2026 Spring Term Resit Examinations to The Registrar
July	17 - 21	2026	Start of Online Application for 2025 - 2026 Spring Semester Graduation Make-Up Examinations
July	20	2026	National Holiday (Peace and Freedom Day)
July	23	2026	Summer Term Classes Commence First Day of Late Registration
July	22 - 23	2026	2025 - 2026 Spring Semester Graduation Make Up Examination Period
July	24	2026	Submission of 2025 - 2026 Spring Term Graduation Make-Up Grades To The Registrar
July	24	2026	Submission of 2025 - 2026 Spring Term Graduation Decisions of the students who will graduate as the result of Graduation Make-Up Exam To The Registrar
July	30	2026	Last Day For Late Registration
August	01	2026	National Holiday (National Resistance Day)
August	03	2026	Online Course Registration For Fall Term 2026 - 2027 Commences
August	04	2026	Last Day For Add / Drop
August	21	2026	Last Day For Course Withdrawal
August	25	2026	Religious Day (Mawlid August 24 night)
August	28	2026	Last Day of Classes
August	30	2026	National Holiday (Victory Day)
Aug. - Sept.	31 - 02	2026	Summer Term Final Examinations
September	04	2026	Last Day For The Submission of Summer Term Grades to The Registrar
September	05 - 07	2026	Online Application Period for Summer Term Graduation Make Up Examinations
September	07	2026	Last Day For Submission of The Summer Term Graduation Decisions To The Registrar
September	08 - 09	2026	Summer Term Graduation Make Up Examinations Period
September	10	2026	Last Day For The Submission of 2025 - 2026 Spring and Summer Term 'Incomplete' Grades and Graduation Make Up Grades To The Registrar
September	11	2026	Last Day For The Submission of 2025 - 2026 Summer Term Graduation Decisions and Graduation Decisions of Students who will Graduate as a Result of 2025 - 2026 Spring or Summer Term Incomplete Grades or Graduation Make Up examinations Result To The Registrar
September	14	2026	Last Day for Graduation of Students Graduating at the End of Summer Term and Graduation of the Students Who Complete Incomplete (I) Grades of 2025 - 2026 Spring Term

FACULTY MEMBERS

Chair



Prof. Dr. Zeki Bayram

Ph.D. 1993, The University of Alabama, Birmingham, Alabama, USA

Basic Interests: Basic Interests: Programming Languages, Logic Programming, Automated Deduction, Semantic Web, Constraint Programming, Knowledge Based Systems, Intelligent Agents

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Vice Chair



Asst. Prof. Dr. Ahmet Ünveren

Ph.D. 2002, Eastern Mediterranean University, Famagusta, T.R.N.C.

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Professors



Prof. Dr. Doğu Arifler

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Basic Interests: Network Performance Modeling and Simulation, Random Networks, Nano Communication Networks, Wireless Sensor Networks.

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Basic Interests: Web technologies, Semantic Web, Agent-based Systems, Artificial Intelligence, Biomedical Systems, Knowledge Representation and Ontology, Software Engineering, Software Project Management.

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Basic Interests: Natural Language Processing (NLP), Biomedical Text Mining, Information Extraction, Bioinformatics, Data Mining

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Associate Professors



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Assistant Professors



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Distinguished Professors



Prof. Dr. Alexander Chefranov

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Cleaning Services Personnel



Semiha Sakallı



Deniz Bahçeciođlu Gök



Melek Aktaş



Aylin Uzun

UNDERGRADUATE PROGRAM CURRICULA
UNDERGRADUATE CURRICULUM FOR COMPUTER ENGINEERING

First Year: Fall Semester								
# of crs.	R.code	Crs.Code	Course Name	Prerequisite	Lect.	Lab/Tur	Cr.	ECTS
1	25711	CMPE 107	Foundations of Computer Engineering	-	4	1	4	10
2	25712	MATH 163	Discrete Mathematics	-	3	1	3	5
3	25713	ENGL 191	Communication in English I	-	3	1	3	4
4	25714	MATH 151	Calculus I	-	4	1	4	6
5	25715	PHYS 101	Physics I	-	4	1	4	6
S.Tot =5					Sem. Total		18	31
					Sub- Total		18	31
First Year: Spring Semester								
# of crs.	R.code	Crs.Code	Course Name	Prerequisite	Lect.	Lab/Tur	Cr.	ECTS
-	25721	CMPE 100	Introduction to Computer Engineering	-	-	2	0	1
1	25722	CMPE 112	Programming Fundamentals	CMPE 107	4	1	4	10
2	25723	ENGL 192	Communication in English II	ENGL 191	3	1	3	4
3	25724	MATH 152	Calculus II	MATH 151	4	1	4	6
4	25725	PHYS 102	Physics II	-	4	1	4	6
5	25726	TUSL 181	Turkish as a Second Language (other Students)	-	2	-	2	2
		HIST 280	History of Turkish Reforms (TC/TRNC)					
S.Tot =5					Sem. Total		17	29
					Sub- Total		35	60
Second Year: Fall Semester								
# of crs.	R.code	Crs.Code	Course Name	Prerequisite	Lect.	Lab/Tur	Cr.	ECTS
1	25731	CMPE 223	Digital Logic Design	MATH 163	4	1	4	7
2	25732	CMPE 231	Data Structures	CMPE 112	4	1	4	7
3	25733	CMPE 211	Object-Oriented Programming	CMPE 112	4	1	4	7
4	25734	ENGL 201	Communication Skills	ENGL 192	3	1	3	4
5	25735	MATH 241	Linear Algebra and Ordinary Diff. Equations	MATH 151	4	1	4	6
S.Tot =5					Sem. Total		19	31
					Sub- Total		54	91
Second Year: Spring Semester								
# of crs.	R.code	Crs.Code	Course Name	Prerequisite	Lect.	Lab/Tur	Cr.	ECTS
1	25741	CMPE 224	Digital Logic Systems	CMPE 223	4	1	4	7
2	25742	CMPE 226	Electronics for Computer Engineers	MATH 241	4	1	4	6
3	25743	CMPE 242	Operating Systems	CMPE 112	4	1	4	7
4	25744	MATH 373	Numerical Analysis for Engineers	MATH 241	3	1	3	5
5	25745	UE - 01	Basic Science (CHEM 101, BIOL 105, SCIE 130, etc.)	-	3 4	-	3 4	4
S.Tot =5					Sem. Total		18 19	29
					Sub- Total		72 73	120

UNDERGRADUATE CURRICULUM FOR COMPUTER ENGINEERING (CONTINUED)

Third Year: Fall Semester								
# of crs.	R.code	Crs.Code	Course Name	Prerequisite	Lect.	Lab/Tur	Cr.	ECTS
1	25751	CMPE 325	Computer Architecture and Organization	CMPE 224	4	1	4	7
2	25752	CMPE 353	Database Management Systems	CMPE 231	4	1	4	6
3	25753	CMPE 371	Analysis of Algorithms	CMPE 231	4	1	4	6
4	25754	CMPE 321	Signals and Systems for Computer Engineers	CMPE 226	4	1	4	6
5	25755	MATH 322	Probability and Statistical Methods	MATH 151	3	1	3	5
S.Tot =5					Sem. Total		19	30
							Sub- Total	91 92 150
Third Year: Spring Semester								
# of crs.	R.code	Crs.Code	Course Name	Prerequisite	Lect.	Lab/Tur	Cr.	ECTS
1	25761	CMPE 318	Principles of Programming Languages	CMPE 211	4	1	4	6
2	25762	CMPE 344	Computer Networks	CMPE 242 + MATH 322	4	1	4	6
3	25763	CMPE 342	Client/Server Programming	CMPE 231	4	1	4	7
4	25764	CMPE 312	Software Engineering	CMPE 211	4	1	4	7
5	25765	UE- 02	Uni. Elective II- Arts & Humanities	-	3	-	3	4
S.Tot =5					Sem. Total		19	30
							Sub- Total	110 111 180
Fourth Year: Fall Semester								
# of crs.	R.code	Crs.Code	Course Name	Prerequisite	Lect.	Lab/Tur	Cr.	ECTS
-	25771	CMPE 400	Summer Practice	-	-	-	0	1
1	25772	CMPE 455	Security of Computer Systems & Networks	CMPE 344	4	1	4	6
2	25773	AE 01	Area Elective I	-	3 4	1	3 4	6
3	25774	AE 02	Area Elective II	-	3 4	1	3 4	6
4	25775	CMPE 471	Automata Theory	MATH 163	4	1	4	6
-	25776	CMPE 405	Graduation Project I	-	1	-	1	2
5	25777	IENG 355	Ethics in Engineering	-	3	-	3	4
S.Tot =5					Sem. Total		18 20	31
							Sub- Total	128 131 211
Fourth Year: Spring Semester								
# of crs.	R.code	Crs.Code	Course Name	Prerequisite	Lect.	Lab/Tur	Cr.	ECTS
1	25781	CMPE 420	Embedded System Design	CMPE 224	4	1	4	7
2	25782	AE 03	Area Elective III	-	3 4	1	3 4	6
3	25783	UE-03	Uni. Elective III- Arts & Humanities	-	3	-	3	4
4	25784	UE-04	Uni. Elective IV (Restricted: ECON/MGMT/FIN/BANK/ACCT Fields)	-	3	-	3	4
5	25785	CMPE 406	Graduation Project II	CMPE 405	3	1	3	8
S.Tot =5					Sem. Total		16 17	29
C.tot=40							Sub- Total	144 148 240

UNDERGRADUATE CURRICULUM FOR SOFTWARE ENGINEERING

First Year: Fall Semester										
# of crs.	R.code	Crs.Code	Course Name	Prerequisite	Lect.	Lab/Tur	Cr.	ECTS		
1	29711	CMSE 107	Foundations of Computer Engineering	-	4	1	4	10		
2	29712	MATH 163	Discrete Mathematics	-	3	1	3	5		
3	29713	ENGL 191	Communication in English I	-	3	1	3	4		
4	29714	MATH 151	Calculus I	-	4	1	4	6		
5	29715	PHYS 101	Physics I	-	4	1	4	6		
S.Tot =5							Sem. Cr. Total : 18		31	
							Cr. Sub-Total :		18	31
First Year: Spring Semester										
# of crs.	R.code	Crs.Code	Course Name	Prerequisite	Lect.	Lab/Tur	Cr.	ECTS		
-	29721	CMSE 100	Introduction to Software Engineering	-	-	2	-	1		
1	29722	CMSE 112	Programming Fundamentals	CMSE 107	4	1	4	10		
2	29723	ENGL 192	Communication in English II	ENGL 191	3	1	3	4		
3	29724	MATH 152	Calculus II	MATH 151	4	1	4	6		
4	29725	PHYS 102	Physics II	-	4	1	4	6		
5	29726	TUSL 181	Turkish as a second Language (other Students)	-	2	-	2	2		
		HIST 280	History of Turkish Reforms (TC/TRNC)							
S.Tot =5							Sem. Cr. Total : 17		29	
							Cr. Sub-Total :		35	60
Second Year: Fall Semester										
# of crs.	R.code	Crs.Code	Course Name	Prerequisite	Lect.	Lab/Tur	Cr.	ECTS		
1	29731	CMSE 201	Fundamentals of Software Engineering	CMSE 107	4	1	4	8		
2	29732	CMSE 211	Object-Oriented Programming	CMSE 112	4	1	4	7		
3	29733	CMSE 231	Data Structures	CMSE 112	4	1	4	7		
4	29734	MATH 241	Linear Algebra and Ordinary Diff. Equations	MATH 151	4	1	4	6		
5	29735	UE-01	Basic Science (CHEM 101, BIOL 105, SCIE 130, etc.)	-	3 4	-	3 4	4		
S.Tot =5							Sem. Cr. Total : 19 20		32	
							Cr. Sub-Total :		54 55	92
Second Year: Spring Semester										
# of crs.	R.code	Crs.Code	Course Name	Prerequisite	Lect.	Lab/Tur	Cr.	ECTS		
1	29741	CMSE 222	Introduction to Computer Organization	MATH 163	4	1	4	8		
2	29742	CMSE 242	Operating Systems	CMSE 112	4	1	4	7		
3	29743	MATH 373	Numerical Analysis for Engineers	MATH 241	3	1	3	5		
4	29744	ENGL 201	Communication Skills	ENGL 192	3	1	3	4		
5	29745	UE-02	Uni. Elective II- Arts & Humanities	-	3	-	3	4		
S.Tot =5							Sem. Cr. Total : 17		28	
							Cr. Sub-Total :		71 72	120

UNDERGRADUATE CURRICULUM FOR SOFTWARE ENGINEERING (CONTINUED)

Third Year: Fall Semester								
# of crs.	R.code	Crs.Code	Course Name	Prerequisite	Lect.	Lab/Tur	Cr.	ECTS
1	29751	CMSE 321	Software Req. Analysis & Specification	CMSE 201	4	1	4	7
2	29752	CMSE 351	Database Management Systems	CMSE 231	4	1	4	7
3	29753	CMSE 371	Analysis of Algorithm	CMSE 231	4	1	4	6
4	29754	UE- 03	Uni. Elective III- Arts & Humanities	-	3	-	3	4
5	29755	MATH 322	Probability and Statistical Methods	MATH 151	3	1	3	5
S.Tot =5					Sem. Cr. Total :		18	30
					Cr. Sub-Total :		89 90	150
Third Year: Spring Semester								
# of crs.	R.code	Crs.Code	Course Name	Prerequisite	Lect.	Lab/Tur	Cr.	ECTS
1	29761	CMSE 322	Software Design	CMSE 321	4	1	4	6
2	29762	CMSE 318	Principles of Programming Languages	CMSE 211	4	1	4	7
3	29763	CMSE 344	Computer Networks & Communication	CMSE 242 + MATH 322	4	1	4	7
4	29764	IENG 355	Ethics in Engineering	-	3	-	3	4
5	29765	CMSE 326	Software Quality Assurance & Testing	CMSE 201	4	1	4	6
S.Tot =5					Sem. Cr. Total :		19	30
					Cr. Sub-Total :		108 109	180
Fourth Year: Fall Semester								
# of crs.	R.code	Crs.Code	Course Name	Prerequisite	Lect.	Lab/Tur	Cr.	ECTS
-	29771	CMSE 400	Summer Practice	-	-	-	0	1
-	29772	CMSE 405	Graduation Project I	-	1	-	1	1
1	29773	CMSE 471	Automata Theory	MATH 163	4	1	4	6
2	29774	CMSE 473	Software Process & Management	CMSE 321 + MATH 322	4	1	4	6
3	29775	CMSE 423	Embedded System Design	CMSE 222	4	1	4	6
4	29776	AE 01	Area Elective I	-	3 4	-	3 4	6
5	29777	AE 02	Area Elective II	-	3 4	-	3 4	6
S.Tot =5					Sem. Cr. Total :		19 21	32
					Cr. Sub-Total :		127 130	212
Fourth Year: Spring Semester								
# of crs.	R.code	Crs.Code	Course Name	Prerequisite	Lect.	Lab/Tur	Cr.	ECTS
1	29781	AE 03	Area Elective III	-	3 4	-	3 4	6
2	29782	AE 04	Area Elective IV	-	3 4	-	3 4	6
3	29783	CMSE 406	Graduation Project II	CMSE 405	3	1	3	6
4	29784	UE- 04	Uni. Elective IV (Restricted: ECON/MGMT/FIN/BANK/ACCT Fields)	-	3	-	3	4
5	29785	CMSE 456	Security of Computer Systems & Networks	CMSE 344	4	1	4	6
S.Tot =5					Sem. Cr. Total :		16 18	28
C.Tot=40					Cr. Sub-Total :		143 148	240

UNDERGRADUATE CURRICULUM FOR ARTIFICIAL INTELLIGENCE ENGINEERING

First Year: Fall Semester									
# of crs.	R.code	Crs.Code	Course Name	Prerequisite	Lect.	Lab/Tur	Cr.	ECTS	
1	2L711	AING 107	Programming Fundamentals I	-	4	1	4	8	
2	2L712	MATH 163	Discrete Mathematics	-	3	1	3	5	
3	2L713	ENGL 191	Communication in English - I	-	3	1	3	4	
4	2L714	MATH 151	Calculus I	-	4	1	4	7	
5	2L715	PHYS 101	Physics I	-	4	1	4	7	
S.Tot =5					Sem. Total		18	31	
							Sub-Total	18	31
First Year: Spring Semester									
# of crs.	R.code	Crs.Code	Course Name	Prerequisite	Lect.	Lab/Tur	Cr.	ECTS	
	2L721	AING 100	Introduction to Artificial Intelligence	-	-	2	0	1	
1	2L722	AING 112	Programming Fundamentals II	AING 107	4	1	4	8	
2	2L723	ENGL 192	Communication in English - II	ENGL 191	3	1	3	4	
3	2L724	MATH 152	Calculus II	MATH 151	4	1	4	7	
4	2L725	PHYS 102	Physics II	-	4	1	4	7	
5	2L726	TUSL 181	Turkish as a Second Language (other Students)	-	2	-	2	2	
		HIST 280	History of Turkish Reforms (TC/TRNC)						
S.Tot =5					Sem. Total		17	29	
							Sub-Total	35	60
Second Year: Fall Semester									
# of crs.	R.code	Crs.Code	Course Name	Prerequisite	Lect.	Lab/Tur	Cr.	ECTS	
1	2L731	AING 201	Fundamentals of Artificial Intelligence	AING 107	4	1	4	6	
2	2L732	AING 231	Data Structures	AING 112	4	1	4	7	
3	2L733	AING 211	Object-Oriented Programming	AING 112	4	1	4	6	
4	2L734	UE 01	Basic Science	-	3 4	-	3 4	4	
5	2L735	MATH 241	Linear Algebra and Ordinary Diff. Equations	MATH 151	4	1	4	6	
S.Tot =5					Sem. Total		19/20	29	
							Sub-Total	54/55	89
Second Year: Spring Semester									
# of crs.	R.code	Crs.Code	Course Name	Prerequisite	Lect.	Lab/Tur	Cr.	ECTS	
1	2L741	AING 222	Introduction to Computer Organization	MATH 163	4	1	4	7	
2	2L742	AING 242	Operating Systems	CMPE 112	4	1	4	6	
3	2L743	AING 216	Basic Search Strategies	AING 201	4	1	4	6	
4	2L744	AING 214	Advanced Programming Techniques for Artificial Intelligence	AING 211	4	1	4	7	
5	2L745	MATH 322	Probability and Statistical Methods	MATH 151	4	1	4	5	
S.Tot =5					Sem. Total		20	31	
							Sub-Total	74/75	120

**UNDERGRADUATE CURRICULUM FOR ARTIFICIAL INTELLIGENCE ENGINEERING
(CONTINUED)**

Third Year: Fall Semester									
# of crs.	R.code	Crs.Code	Course Name	Prerequisite	Lect.	Lab/Tu r	Cr.	ECTS	
1	2L751	AING 353	Database Management Systems	AING 231	4	1	4	6	
2	2L752	AING 371	Analysis of Algorithms	AING 231	4	1	4	6	
3	2L753	AING 327	Data Science	AING 214	4	1	4	7	
4	2L754	AING 355	Knowledge Representation & Reasoning	AING 201	4	1	4	6	
5	2L755	UE - 02	Uni. Elective - II (Arts & Humanities)	-	3	-	3	4	
S.Tot =5					Sem. Total		19	29	
					Sub-Total		93/94	149	
Third Year: Spring Semester									
# of crs.	R.code	Crs.Code	Course Name	Prerequisite	Lect.	Lab/Tu r	Cr.	ECTS	
1	2L761	AING 312	Software Engineering	AING 211	4	1	4	7	
2	2L762	ENGL 201	Communication Skills	ENGL 192	4	1	4	4	
3	2L763	AING 364	Large Scale Computing and Big Data	AING 353	4	1	4	8	
4	2L764	AING 356	Machine Learning	AING 327	4	1	4	8	
5	2L765	UE-03	Uni. Elective III - Arts & Humanities	-	3	-	3	4	
S.Tot =5					Sem. Total		19	31	
					Sub-Total		112/113	180	
Fourth Year: Fall Semester									
# of crs.	R.code	Crs.Code	Course Name	Prerequisite	Lect.	Lab/Tu r	Cr.	ECTS	
-	2L771	AING 400	Summer Practice	-	-	-	0	1	
-	2L772	AING 405	Graduation Project I	-	-	-	1	1	
1	2L773	AING 421	Deep Learning	AING 356	4	1	4	6	
2	2L774	AING 425	Fundamentals of Computer Vision	MATH 152	4	1	4	7	
3	2L775	AE 01	Area Elective I	-	3 4	1	3 4	6	
4	2L776	AE 02	Area Elective II	-	3 4	1	3 4	6	
5	2L777	UE-04	Uni. Elective IV - Arts & Humanities (ECON/MGMT/FIN/ACCT Fields)	-	3 4	-	3 4	4	
S.Tot =5					Sem. Total		18/21	31	
					Sub-Total		130/134	211	
Fourth Year: Spring Semester									
# of crs.	R.code	Crs.Code	Course Name	Prerequisite	Lect.	Lab/Tu r	Cr.	ECTS	
1	2L781	AING 406	Graduation Project II	AING 405	3	1	4	7	
2	2L782	AING 426	Natural Language Processing	AING 327	4	1	4	6	
3	2L783	AE 03	Area Elective III	AING 211	4	1	4	6	
4	2L784	AE 04	Area Elective IV	-	3 4	1	3 4	6	
5	2L785	IENG 355	Ethics in Engineering	-	3	-	3	4	
S.Tot =5					Sem. Total		18/19	29	
C.tot=4 0						Sub-Total		148/153	240

ELECTIVE COURSES

A. Non-technical Electives

Non-technical electives approved by the department are announced at the beginning of each semester. Students can choose any of those courses announced as a non-technical elective.

B. Area Electives

Area elective courses offered by the Computer Engineering Department are announced by the Department at the beginning of each semester. A list of area elective courses is given below. The Department may add further courses to this list. In addition to these courses, at the beginning of each semester, the Department will list courses offered by other Engineering Faculty Departments that may be chosen as area electives. Registration to such courses will require Departmental consent.

<u>Course Code</u>	<u>Course Name</u>	<u>Credit</u>	<u>Prerequisite</u>
CMPE/CMSE 413	Compiler Construction	(4, 1) 4	MATH 163
CMPE/CMSE 414	Modern Programming Platforms	(4, 1) 4	CMPE 211
CMPE/CMSE 415	Visual Programming	(4, 1) 4	CMPE 231
CMPE/CMSE 416	Object-Oriented Programming and Graphical User Interfaces	(4, 1) 4	CMPE 211
CMPE/CMSE 417	Advanced Topics in C	(4, 1) 4	CMPE 211
CMPE/CMSE 418	Internet Programming	(4, 1) 4	CMPE 353
CMPE/CMSE 419	Mobile Application Development	(4, 1) 4	CMPE 211
CMPE/CMSE 421	Parallel Computer Architecture	(4, 1) 4	CMPE 325
CMPE/CMSE 422	Microprocessor Systems	(4, 1) 4	CMPE 224
CMPE/CMSE 423	Low End Embedded Systems	(4, 1) 4	CMPE 224
CMPE/CMSE 424	Introduction to Image Processing	(4, 1) 4	MATH 152
CMPE/CMSE 426	Digital Signal Processing	(4, 1) 4	CMPE 321
CMPE/CMSE 427	Hardware Realization of Algorithms	(4, 1) 4	CMPE 224
CMPE/CMSE 428	Data Science	(4, 1) 4	MATH 322
CMPE/CMSE 429	Deep Learning	(4, 1) 4	MATH 241
CMPE/CMSE 443	Real-time System Design	(4, 1) 4	CMPE 242
CMPE/CMSE 444	Data Communications	(4, 1) 4	CMPE 344
CMPE/CMSE 445	Internet Architecture and Protocols	(4, 1) 4	CMPE 344
CMPE/CMSE 446	Networked computing	(4, 1) 4	CMPE 344
CMPE/CMSE 447	Fiber Optic Computer Communication	(4, 1) 4	CMPE 321
CMPE/CMSE 448	Modern Networking Concepts	(4, 1) 4	CMPE 344
CMPE/CMSE 449	Distributed Systems	(4, 1) 4	CMPE 242
CMPE/CMSE 451	Information Security	(4, 1) 4	CMPE 353
CMPE/CMSE 461	Artificial Intelligence	(4, 1) 4	CMPE 211
CMPE/CMSE 462	Functional and Logic Programming	(4, 1) 4	CMPE 211
CMSE 439	Human/Computer Interaction	(4, 1) 4	-
CMSE 491	Selected Topics in Software Engineering	(4, 1) 4	-
CMSE 492	Selected Topics in Software Engineering	(4, 1) 4	-
AING421	Fundamentals of Computer Vision	(4, 1) 4	
AING422	Health Informatics	(4, 1) 4	
AING431	Time Series Data Analysis	(4, 1) 4	
AING432	Agent-Based Modeling	(4, 1) 4	
AING435	Expert Systems	(4, 1) 4	
AING436	Natural Language Processing	(4, 1) 4	
AING451	Neural Computation	(4, 1) 4	
AING452	Introduction to Information Retrieval	(4, 1) 4	

AING453	Text mining	(4, 1) 4	
AING454	Artificial Intelligence Applications for Security	(4, 1) 4	
AING455	Fundamentals of Data Mining	(4, 1) 4	
AING456	Big Data Analytics	(4, 1) 4	
AING487	Semantic Web Technologies and Applications	(4, 1) 4	
AING491	Special Topics in Artificial Intelligence	(4, 1) 4	

For course descriptions, please check the Computer Engineering Department's Web site.

LABORATORIES

General Computer Laboratory I

The first general laboratory is equipped with 50 Intel Core i7 16GB RAM computers. The laboratory may be used according to the requirements of students for their courses and projects.

General Computer Laboratory II

The second general laboratory is equipped with 25 computers. The laboratory may be used according to the student's requirements for their courses and projects.

UNIX Laboratories

In Unix Lab1, there are 25 computers that have Dual Core PC's, Windows 7 operating system and a direct connection to a Fedora server. In Unix Lab 2, there are 25 computers that have Intel Core i7 16 GB RAM.

Computer Research Laboratory

This laboratory provides general-purpose research facilities under various software platforms for graduate students. This laboratory is used for projects and research studies of 4th year students as well. There are 16 Dual Core PC's in this lab.

Electric and Electronics Laboratory

This laboratory provides facilities for performing experiments on electrical circuits and basic electronics. It includes voltmeters, amperemeters, signal generators, power supplies, oscilloscopes and relevant discrete components.

Logic Design Laboratory

Intended for teaching the fundamentals of combinatorial and sequential logic circuits. Lab equipment includes construction boards with power supplies, clock generators, LED displays, IC's and 40 Intel Core i3 computers.

Multimedia Laboratory

Intended for teaching technical elective courses. There are 40 i5 16GB RAM computers in this lab.

Mac Laboratory

There are 25 iMac (OS X operating system) computers and 10 IPAD tablets are located in this lab.

Artificial Intelligence Laboratory

The Artificial Intelligence Laboratory was established to support experimental and applied studies in artificial intelligence, machine learning, and deep learning that require high computational power, and is used by undergraduate and graduate students for projects, research, and GPU-intensive computations. The laboratory is equipped with high-performance computers featuring Intel i9-14900K processors, 64 GB DDR5 RAM, 2 TB NVMe SSD storage, and NVIDIA RTX 4090 24 GB graphics cards, along with liquid cooling and high-capacity power supplies, providing suitable infrastructure for AI model training, data analysis, and advanced computational applications.

REGISTRATION PROCESS

Academic Advisor

Each student is assigned an Academic Advisor who assists the student with matters related to course selection, registration, and scheduling. The advisor plays a key role in the student's progress through university studies, but it is ultimately the student's responsibility to meet all University requirements, and it is the responsibility of the Office of the Registrar to ascertain and certify that these requirements have been met.

Students must obtain their advisors' approval for registration, selection of core and elective courses, and for adding, dropping, or withdrawing courses.

Registration Procedure

A) Course Registration Procedure

Please, first get access for course registration with your 'ID card' and 'bank receipt' by visiting:

- Registrar's Office
- Accounting Office

Then go to your academic advisor at your department to complete your registration.

Important Notes:

- Course registration is complete when you see your advisor face-to-face and he/she confirms your registration on the computer.
- Students who do not obtain access cannot complete their registration.
- You can learn the tuition fee or any debts that needs to be settled from <https://students.emu.edu.tr>
- Students must register for courses in person. Please do not ask your friend(s) to do it for you. It will not be accepted.
- Students who complete their registration after course registration period, should pay penalty per day even if they did pay their tuition fees earlier.
- In case of problems, please go directly to the Registrar's Office.

B) Online Course Registration Procedure

Access to online registration: (<https://students.emu.edu.tr>)

First pay your tuition and fees, then log on to this web site and choose your courses online. Then, get confirmation from your advisor regarding your course selection.

Your course registration will be completed when your advisor confirms your courses. You will need to see your advisor face to face before the last date that will be announced to get the final approval for your course registration. Students who do not get approval from their advisor until the specified date will have to pay late registration penalty on a per day basis.

Important Notes:

- Students who do not get access cannot register online.
- Access is opened automatically in 24 - 48 hours following the payment to the bank.
- You can learn your tuition fee or any debts at <https://students.emu.edu.tr>.
- Freshman undergraduate students CANNOT register online. These students must first visit the registration/accounting offices and then meet the academic staff in the department who are responsible for registration of freshmen.
- Master/PhD students and first semester CANNOT register online. These students must fill-out the form in appendix A and then meet the academic staff in the department who are responsible for registration of Master/PhD students.

Late Registration

Students who have not completed formal registration processes during the scheduled period may be permitted to register late with a late registration penalty, if the delay has been involuntary.

Registration Changes

a) Adding Courses

With the approval of their Academic Advisor and the Chairman of the Department, students may request addition of courses to their schedule during the first two weeks of classes in a regular term. Such requests will be granted if:

- 1) The maximum allowable student course load is not exceeded;
- 2) Added courses can be scheduled properly.

b) Dropping Courses

With the approval of his/her Academic Advisor and the Chairman of the Department, a student may drop courses from his/her schedule during the first two weeks of classes in a regular term.

c) Withdrawing from a Course

Course withdrawal may take place no later than the deadline announced in the academic calendar, with the approval of the Academic Advisor and the Chairman of the Department. A student who withdraws from a course will receive a "W" grade on his/her transcript. Such courses must be registered again in the following semester.

NOTE: Depending on the different conditions, a course-group may be altered (schedule/instructor) or removed or added to the semester's program. The department tries to minimize these alterations. Please check your portal frequently in the first two weeks to be aware of those changes.

TRANSFERS

Transfer from another Academic Institution

A student who has completed at least one academic semester of an equivalent program at another university may apply for transfer to the Computer Engineering Department. Such an application will be considered provided the applicant:

- a) has not been dismissed from that institution, either on academic or any other grounds,
- b) has an adequate knowledge of English, and
- c) the quota for transfer students has not been exceeded.

A transfer student may be exempted from certain courses. Decisions concerning exemption will be made by the Transfer Committee of the Department, only once, after the application of the student.

Transfer within the University

Transfer from another four-year degree program of EMU to Computer Engineering may be permitted, if the student has successfully completed at least one term of study in a department (English Preparatory School is not counted) and if the quota for transfer students has not been exceeded. Students who have already made one internal transfer before or students who have an academic warning are not eligible for another transfer application.

A two-year diploma program student who graduates with a high cumulative grade-point average may apply for transfer to the first year of the Computer Engineering four-year degree program.

COURSE-LOAD AND ASSESSMENT

The Academic Year

Academic activities take place in an "Academic Year", from the end of September to the end of June, consisting of two periods of at least 16 weeks each, possibly followed by a "Summer Session". The two periods of study are referred to as the "Fall" and "Spring" semesters. There is a two to three weeks of break between the two semesters. Summer sessions are offered in July and August.

The Academic Term

The current academic term of a student is determined by the cumulative credited courses he/she registered to during his/her whole period of studies at EMU. The total course load is distributed over eight academic terms (four academic years).

Courses

Courses consist of two to four hours of instruction and, where appropriate, tutorial and laboratory work, for each week of the Fall or Spring semester or the equivalent total number of hours per week in a Summer session.

The Credit-Hour

Courses offered for academic credit are described in terms of a number that is proportional to the academic involvement they require from the student. This number is called the "Credit-Hour."

For each course, one credit hour is equivalent to one lecture hour per week. Any additional hour that may be required for preparation outside the class, or any additional hour required for laboratory or tutorial work is considered to be equivalent to one-half of a credit-hour.

A course consisting of both lecture and laboratory/tutorial sessions, meeting for 3 lecture hours and 2 laboratory/tutorial hours per week would be assigned 4 credit-hours. It would receive a credit rating of "(3,2) 4," where the first digit indicates the weekly lecture hours, the second digit the weekly laboratory/tutorial hours, and the last, the credit-hours associated with the course.

Prerequisite Courses

Prerequisite course requirements are given in parentheses in each course description, if applicable. They are also shown in the tabular undergraduate curriculum. When course A is a prerequisite to course B, a student cannot register to course B before obtaining at least a D- grade from course A.

Course Load

For every semester, the number of specified credit courses of a registered program makes up the semester course load. Non-credit courses are not taken into account in the computation of the course load. However, upon the recommendation of the student advisor and the approval of the Department Chair or School Director:

1. a maximum of two courses can be reduced from the normal course load of a semester. In this case, the student must register for the untaken courses at the first semester the courses are being offered.
2. in accordance with the standard course load of the relevant semester and the academic achievement status of the student, semester course load can be increased by two courses at most. In order to do this, the students must hold a Cumulative Grade Point Average (CGPA) minimum of 2.00.
 - a. the student who holds a minimum of 2.00 CGPA, however is not within the "High Honour" student category as of the end of the previous academic semester, can only increase their semester course load by one course at most.
 - b. the student who is listed within the "High Honour" category as of the end of the previous academic semester, may increase the course load of that semester by two courses.

High Honour students may receive only one of their courses free-of-charge. Students make additional payments based on the per-credit fees to be applied for the summer semester at the end of the respective academic year, in addition to the tuition fee they are obligated to pay for each extra course they take during that semester.

3. The course load of students who do not have any Academic Warnings and who are in the graduation semester can be increased by three courses for students enrolled in Faculty of Law undergraduate and in School of Justice associate degree programs and, by two courses for students who are enrolled in the other programs. In addition to the normal courses to be taken during the final semester of the education program, the student with the graduation status can increase their course load by a maximum of 3 for those whose undergraduate program curriculum consists of 60 courses and associate degree program curriculum with over 30. Other students enrolled in different programs who have maximum of two courses left and who take these courses successfully, are to obtain the right to graduate. When determining the course load, non-credit courses and credit courses that have been accepted by the Senate as not being considered as normal load are not taken into account.

Course Grades and Grade-Points

Thirteen categories of scholastic achievement, ranging from “superior” to “failure” (A, A-, B+, B, B-, C+, C, C-, D+, D, D-, F, NG), are recognized as valid end-of-course grades or letter grades. These grades are indexed on a scale of “0 to 4”, termed “Grade-Points”. The symbol “NG” (Nil Grade) indicates poor attendance and/or a failure to complete assigned work (including exams).

The letter grades are indexed to Grade-Point equivalents as follows: A=4.0; A-=3.7; B+=3.3; B=3.0; B-=2.7; C+=2.3; C=2.0; C-=1.7; D+=1.3; D=1.0; D-=0.7; F=0.0; NG=0.0.

Four other symbols are also used in grading, for special circumstances. “W” (withdrawn), indicates withdrawal from a course before the end of a term. In case a student has been authorized to delay completion of course work past the normal end-of-term, the “I” (incomplete) grade may be given until a formal grade is reported. Achievement in a non-credit-hour course is indicated by the symbol “S” (satisfactory) or “U” (unsatisfactory). In the case of repeated course work, the last grade earned is considered the official course grade. No grade-point equivalent is assigned for the notations I, W, S, and U.

Credits Earned

A student earns credits based on the level of his/her achievement in a course. The credits earned are the product obtained by multiplication of the “Credit-Hour” and the “Grade-Point” obtained. For example, if a student gets grade A- for a 4-credit course, then the credits earned for that course is $4 \times 3.7 = 14.8$.

Grade-Point Average: GPA

A student’s academic achievement for each semester is expressed numerically by a real number referred to as the “Grade Point Average” (GPA). The GPA is obtained by:

1. calculating credits earned for each course,
2. adding these earned credits for all courses in the semester to obtain the total credits, and
3. dividing the total credits by the total credit-hours registered in that semester.

The GPA can range from 0.00 to a maximum number of 4.00. A student’s GPA is calculated and reported to two decimal places.

Cumulative Grade Point Average: CGPA

A student's overall academic achievement is expressed by a real number called the "Cumulative Grade Point Average" (CGPA). The CGPA is obtained by:

1. adding the credits earned in each completed semester to find the total credits earned,
2. adding credit-hours registered in all completed semester to find the total credit-hours registered, and
3. dividing the total credits earned by the total credit-hours attempted.

When a course is repeated, the last credit earned is substituted in place of the previous value.

Example:

Assume that a student is registered to the following courses and got the following grades.

Semester I:

<u>Course</u>	<u>Grade</u>	<u>Credit</u>
CMPE 101	B-	(3)
MATH 163	D-	(3)
ENGL 191	D	(3)
MATH 151	C	(4)
PHYS 101	F	(4)
		+ ----- 17

$$\text{Credits earned} = 3 \cdot 2.7 + 3 \cdot 0.7 + 3 \cdot 1 + 4 \cdot 2 + 4 \cdot 0 \\ = 21.2$$

$$\text{GPA} = 21.2 / 17 = 1.25 \\ \text{CGPA} = 21.2 / 17 = 1.25$$

Semester II:

<u>Course</u>	<u>Grade</u>	<u>Credit</u>
MATH 163	B+	(3) (repeat)
CMPE 102	B	(3)
ENGL 192	D	(3)
MATH 152	C+	(4)
PHYS 101	D	(4) (repeat)
		+ ----- 17

$$\text{Total of new credits} = 10$$

$$\text{Credits earned} = 3 \cdot 3.3 + 3 \cdot 3 + 3 \cdot 1 + 4 \cdot 2.3 + 4 \cdot 1 \\ = 35.1$$

$$\text{GPA} = 35.1 / 17 = 2.06$$

$$\begin{aligned} \text{Total credits registered} &= 17 + 10 = 27 \\ &\text{(excluding repeated MATH163 and PHYS 101)} \\ \text{Total credits earned} &= 35.1 + 19.1 = 54.2 \\ &\text{(excluding 2.1 in Semester I for the D- of MATH163)} \end{aligned}$$

$$\text{CGPA} = \text{Total credits earned} / \text{total credits registered} \\ = 54.2 / 27 = 2.01$$

ACADEMIC EVALUATION

Evaluation of a Course

A course is said to have been successfully completed if a student, obtains a grade of A, A-, B+, B, B-, C+, C, C-, D+, D or S. A course in which a student receives a grade of D-, F, NG or U is not satisfactorily completed, and the student is required to repeat such a course in the next semester it is offered.

Satisfactory/Probation/Unsatisfactory Status

Satisfactory/On-Probation/Unsatisfactory Status of students is based on the following table:

Actual Academic Term	Satisfactory (S)	Satisfactory Progress (Y)	On Probation (P)	Unsatisfactory (U)	Compulsory Transfer/DISMISS (C)
2	4.00≥CGPA≥2.00	2.00>CGPA≥1.50	1.50>CGPA≥1.00	1.00>CGPA≥0.00	-----
3	4.00≥CGPA≥2.00	2.00>CGPA≥1.50	1.50>CGPA≥1.00	1.00>CGPA≥0.00	-----
4	4.00≥CGPA≥2.00	2.00>CGPA≥1.50	1.50>CGPA≥1.00	1.00>CGPA≥0.00	1.00>CGPA≥0.00
5	4.00≥CGPA≥2.00	2.00>CGPA≥1.80	1.80>CGPA≥1.50	1.50>CGPA≥0.00	1.00>CGPA≥0.00
6	4.00≥CGPA≥2.00	2.00>CGPA≥1.80	1.80>CGPA≥1.50	1.50>CGPA≥0.00	1.00>CGPA≥0.00
7	4.00≥CGPA≥2.00	2.00>CGPA≥1.80	1.80>CGPA≥1.50	1.50>CGPA≥0.00	1.00>CGPA≥0.00
≥8	4.00≥CGPA≥2.00	-----	2.00>CGPA≥1.80	1.80>CGPA≥0.00	1.00>CGPA≥0.00

Meaning of Terms

- **Actual Academic Term** refers to the number of semesters that a student has registered so far (English Preparatory School and summer semesters are not counted).
- **On Probation status:** Student can register to a maximum of two new courses.
- **Unsatisfactory status:** Student cannot register to any new course, must repeat previously taken courses.
- **Compulsory Transfer/DISMISS:** Students who completed a minimum of 4 academic semesters (if the fourth semester is Spring Semester, then at the end of the Summer School) and who have a **CGPA below 1.00** are dismissed from the program. In the case of Compulsory Transfer/DISMISS, the student may transfer to another faculty (with the same tuition fees) or may continue his education in the same program with new student registration fees.
- **Academic Term:** The current academic term of a student is determined by the cumulative credited courses he/she registered to during his/her whole period of studies at EMU. The total course load is distributed over eight academic terms (four academic years). In other words, the semester of a student is determined by the number of courses taken so far.
- **First Academic Warning** Student may register for a maximum of two new courses.
- The students with **Second, Third, ... Academic Warning** cannot register for any new course.
- The students with **Fourth Academic Warning** are dismissed from the program. In this case, the student may transfer to another faculty (with the same tuition fees) or may continue his education in the same program with new student registration fees.
- Students who originally registered before 2007-2008 should note that Academic Warning and dismiss rules are different for them.

Honor and High Honor Students

If the student has taken normal course load, if she/he obtains a GPA between 3.00 and 3.49, he/she is designated an "Honor Student". A student who obtains a GPA between 3.50 and 4.00 is designated a "High Honor Student".

Graduation

A student is entitled to graduate if he/she:

1. Satisfactorily completes all the required course work (40 courses with credits, and other compulsory courses),
2. Completes the 40-day summer training, and
3. Attains a CGPA of at least 2.00.

If at the time of his/her graduation a student has achieved a CGPA of 3.00 or higher, this will be indicated on his/her graduation Diploma/Certificate and official transcript as follows: students with a CGPA in the range 3.00-3.49 "Honors"; students with a CGPA in the range 3.50-4.00 "High Honors".

Graduation is conferred by the University Senate upon the request of Faculties and Schools. The Diplomas/Certificates are prepared by the Office of the Registrar, and describe the name of the program, the date of graduation, and the degree or title obtained.

DOUBLE-MAJOR PROGRAMS: REGISTRATION, ADMISSION AND APPLICATION

Who can apply

In order to be eligible to apply for the double-major program, students

- should already be registered at least for a semester in one of the departments that runs the double-major program and should renew his/her registration during the period of application to the double-major program.
- can apply for the double-major program earliest at the beginning of the third semester of the first major program.
- should obtain minimum grade of 'D' for all credit courses in the first major program up to the period of application.
- should hold a minimum CGPA of 3.00.
- **should apply until the beginning of the 5th semester at the latest.**

A student can apply for more than one double-major program. However, students cannot register for more than one double-major program or a double-major and a double minor program at the same time.

Application process

1. Applications for double-major programs take place until the last day of the academic semester registration period following the announcement of the double-major programs. Applications are processed by the Registrar's Office after the submission of an application form and a transcript.
2. The registrar's office sends all applications to the department of the first major program on the first working day following the registration deadline.
3. The double-major program committee reviews applicants' documents and academic reference letters, if available, and determines whether the candidates will be admitted to double-major programs based on the set quota and whether applicants who have gained admission will be exempted from specific courses. The committee then submits the decision in writing to the department head of the first major program who will ask for relevant departments' and faculties' approval.
4. Students who have gained admission for the double-major program must register for the double-major program during the add-drop period of the relevant academic semester.

Additional Courses for CMSE – CMPE Double Major Program									
# of crs.	R.code	Crs.Code	Course Name	Prerequisite	Lect.	Lab/Tur	Cr.	ECTS	
1	29731	CMSE201	Fundamentals of Software Engineering	CMPE/CMSE107	4	1	4	8	
2	29765	CMSE326	Software Quality Assurance and Testing	CMSE201	4	1	4	6	
3	29751	CMSE321	Software Requirement Analysis & Specification	CMSE201	4	1	4	7	
4	29761	CMSE322	Software Design	CMSE321	4	1	4	6	
5	29774	CMSE473	Software Process and Management	CMPE/CMSE231 + MATH322	4	1	4	6	
6	29776	AE01	Area Elective I		4	1	4	6	
7	29777	AE02	Area Elective II		4	1	4	6	
8	29781	AE03	Area Elective III		4	1	4	6	
9	29782	AE04	Area Elective IV		4	1	4	6	
							Total Credits / ECTS	36	57

Additional Courses for AING – CMPE Double Major Program									
# of crs.	R.code	Crs.Code	Course Name	Prerequisite	Lect.	Lab/Tur	Cr.	ECTS	
1	2L731	AING201	Fundamentals of Artificial Intelligence	CMPE/AING107	4	1	4	6	
2	2L744	AING214	Programming Languages for Artificial Intelligence	CMPE/AING211	4	1	4	7	
3	2L743	AING 216	Basic Search Strategies	AING 201	4	1	4	6	
4	2L753	AING 327	Data Science	AING 214	4	1	4	7	
5	2L754	AING 355	Knowledge Representation & Reasoning	AING 201	4	1	4	6	
6	2L763	AING 364	Large Scale Computing and Big Data	AING 353	4	1	4	8	
7	2L762	AING 355	Knowledge Representation & Reasoning	AING 201	4	1	4	6	
8	2L764	AING 356	Machine Learning	AING 327	4	1	4	8	
9	2L784	AE05	Area Elective IV		4	1	4	6	
							Total Credits / ECTS	36	60

Additional Courses for CMPE – CMSE Double Major Program									
# of crs.	R.code	Crs.Code	Course Name	Prerequisite	Lect.	Lab/Tur	Cr.	ECTS	
1	25741	CMPE224	Digital Logic Systems	CMPE223/ AING222	4	1	4	7	
2	25742	CMPE226	Electronics for Computer Engineering	MATH241	4	1	4	6	
3	25751	CMPE325	Computer Architecture and Organization	CMPE224	4	1	4	7	
4	25754	CMPE321	Signals & Systems for Computer Engineers	CMPE226	4	1	4	6	
5	25763	CMPE342	Client/Server programming	CMPE231	4	1	4	7	
6	25773	AE 01	Area Elective I	CMPE223 AING222	4	1	4	6	
7	25774	AE02	Area Elective II	MATH241	4	1	4	6	
8	25782	AE03	Area Elective III	CMPE224	4	1	4	6	
9		AE05	Area Elective V	CMPE226	4	1	4	6	
							Total Credits / ECTS	36	51

Additional Courses for AING- CMSE Double Major Program									
# of crs.	R.code	Crs.Code	Course Name	Prerequisite	Lect.	Lab/Tur	Cr.	ECTS	
1	2L731	AING201	Fundamentals of Artificial Intelligence	CMPE/AING107	4	1	4	6	
2	2L744	AING214	Programming Languages for Artificial Intelligence	CMPE/AING211	4	1	4	7	
3	2L743	AING 216	Basic Search Strategies	AING 201	4	1	4	6	
4	2L753	AING 327	Data Science	AING 214	4	1	4	7	
5	2L754	AING 355	Knowledge Representation & Reasoning	AING 201	4	1	4	6	
6	2L763	AING 364	Large Scale Computing and Big Data	AING 353	4	1	4	8	
7	2L762	AING 355	Knowledge Representation & Reasoning	AING 201	4	1	4	6	
8	2L764	AING 356	Machine Learning	AING 327	4	1	4	8	
9	2L784	AE05	Area Elective IV		4	1	4	6	
							Total Credits / ECTS	36	60

Additional Courses for CMPE- AING Double Major Program								
# of crs.	R.code	Crs.Code	Course Name	Prerequisite	Lect.	Lab/Tur	Cr.	ECTS
1	25741	CMPE224	Digital Logic Systems	CMPE223/AING222	4	1	4	7
2	25742	CMPE226	Electronics for Computer Engineering	MATH241	4	1	4	6
3	25744	MATH373	Numerical Analysis for Engineers	MATH241	3	1	4	5
4	25751	CMPE325	Computer Architecture and Organization	CMPE224	4	1	4	7
5	25754	CMPE321	Signals & Systems for Computer Engineers	CMPE226	4	1	4	6
6	25761	CMPE318	Principles of Programming Languages	CMPE/AING211	4	1	4	6
7	25762	CMPE344	Computer Networks	CMPE242+MATH322	4	1	4	6
8	25772	CMPE455	Security of Computer Systems & Networks	CMPE344 + AING201	4	1	4	6
9	25773	AE 02	Area Elective I		4	1	4	6
10	25782	AE 03	Area Elective III		4	1	4	6
Total Credits / ECTS							39	68

Additional Courses for CMSE- AING Double Major Program								
# of crs.	R.code	Crs.Code	Course Name	Prerequisite	Lect.	Lab/Tur	Cr.	ECTS
1	29731	CMSE201	Fundamentals of Software Engineering	CMSE/AING107	4	1	4	8
2	29743	MATH373	Numerical Analysis for Engineers	MATH241	3	1	3	5
3	29751	CMSE321	Software Requirement Analysis & Specification	CMSE201	4	1	4	7
4	29761	CMSE322	Software Design	CMSE321	4	1	4	6
5	29762	CMSE318	Principles of Programming Languages	CMSE211 AING211	4	1	4	7
6	29763	CMSE344	Computer Networks	CMSE242+MATH322	4	1	4	6
7	29764	CMSE356	Security of Software Systems	CMSE201	4	1	4	7
8	29765	CMSE326	Software Quality Assurance and Testing	CMSE201	4	1	4	6
9	29774	CMSE473	Software Process and Management	CMSE231+MATH322	4	1	4	6
10	29776	AE01	Area Elective I	CMSE107 AING107	4	1	4	6
Total Credits / ECTS							39	64

ADDITIONAL REGULATIONS

Attendance Requirements

Regular attendance of EMU students is required in all courses. When a student fails to show regular class attendance, an EMU faculty member may report an “NG” for the student. Such action may be taken when the number of unexcused absences exceeds 20% of the total class/laboratory hours scheduled for the course. Specific rules for NG grades are announced by instructors for each course at the beginning of each semester. Students should be aware that course grades can be adversely affected through absence, whether excused or unexcused.

Leave of Absence

A student who has an important excuse for having a break from university studies for a period of time may apply for leave of absence. The total duration of leaves of absence for a student cannot exceed a total of four semesters during his/her studies.

Written appeals are made by using the student portal at the beginning of each semester, within five weeks of the commencement of classes. Medical cases are dealt with separately.

Withdrawal from the University

A student who wishes to withdraw from the University must initiate withdrawal procedures with the Office of the Registrar. The official withdrawal procedure requires that the student obtain clearances from the Registrar, the Library, the Bookstore, Student Housing, and the Accounting Department.

Student Transcript of Academic Record

At the end of each semester, students are provided with a copy of his/her academic records. Errors or suspected errors should be brought to the immediate attention of the Registrar. An official transcript of a student's entire academic record will be provided upon submission of a written request from the student to the Registrar. The official transcript will be mailed by the Registrar to the intended recipient and cannot be handed directly to the student. Student copies of transcripts may also be issued upon request, which can be handed to the student.

Summer Session

The Summer session is organized primarily to help students with lower scholastic achievement in some courses. Students may register to summer session courses with the approval of the Department. Summer session is an intensive study which lasts for eight weeks. The number of courses offered is based on student demand and faculty availability. The grading policy is the same as the regular terms.

Summer Training / Internship

Students enrolled in undergraduate programs run by the Computer Engineering department are required to do an internship of 40 days duration in organizations related to their fields of study as part of the fulfillment of the degree program requirements. Ideally, students should have at least completed their third academic year before doing their internship.

Starting from 2010-2011 academic year, students who have completed the curriculum apart from the summer training must pay 1/20 of the semester fees to register for only summer training.

Disciplinary Matters

The principles of truth and honesty are recognized as fundamental to an academic community. It is expected that both teachers and students honor these principles. In the event of academic dishonesty or behavior that may damage University functions, disciplinary actions as described in the "Disciplinary Regulations" may be enforced by the Disciplinary Committee of the University.

USEFUL LINKS

Computer Engineering Web Site:	https://cmpe.emu.edu.tr
University Web Site:	https://www.emu.edu.tr
Rules and regulations of the university:	https://mevzuat.emu.edu.tr
Student portal:	https://student.emu.edu.tr
Campus Map:	https://www.emu.edu.tr/campusmap

NOTES