

Computer Engineering (Major)									
Se me ster	CODE	Title	Prerequisite	ECTS	Contac t Hours	Indepe ndent Work	Status	Instructor	EQE Module
1	MATH150	Calculus I	No Prerequisite	6	62	88	mandatory	George Makatsaria, Natia Sazandrishvili	Free Component
1	PHYS195	Basics of Physics I (including Lab)	Co-requisite: MATH150	8	77	123	mandatory	Giorgi Dalakishvili, Iuri Baghaturia	Free Component
1		Practical Course of English Language I	No Prerequisite	6	90	60	mandatory	English Language Center	Free Component
1	P432	Introduction to Modern Thought I	No Prerequisite	6	31	119	mandatory		Free Component
1	CS50	Introduction to Programming	No Prerequisite	6	48	102	mandatory	Erekle Magradze, Giorgi Partskhaladze, Torn	Major
2	MATH151	Calculus II	MATH150	6	62	88	mandatory	George Makatsaria, Natia Sazandrishvili	Free Component
2	PHYS196	Basics of Physics II	PHYS195	6	47	103	mandatory	Giorgi Dalakishvili	Free Component
2		Practical Course of English Language II	Practical Course of English Lan	6	90	60	mandatory	English Language Center	Free Component
2	DE112	Mathematical Foundation of Computing	MATH150, CS50	6	48	102	mandatory	Shalva Beriashvili	Major
2	DE111	Computer Organization	CS50	6	62	88	mandatory	Amiran Malania	Major
3	MATH252	Calculus III	MATH151	6	62	88	mandatory	George Makatsaria, Natia Sazandrishvili	Free Component
3		Practical Course of English Language III	Practical Course of English Lan	6	90	60	mandatory	English Language Center	Free Component
3	MATH254	Introduction to Linear Algebra	MATH151	6	48	102	mandatory	Ivane Murusidze	Free Component
3	EE210	Circuit Analysis I	PHYS196, MATH151	6	62	88	mandatory	Zurab Ratiani	Major
3	CE111	Procedural Programming with C	CS50	6	48	102	mandatory	Giorgi Partskhaladze	Major
4	EE300	Computational and Statistical Methods	MATH252	6	63	87	mandatory	Ivane Murusidze	Major
4	CS312	Computer and Data Networks	DE111	6	48	102	mandatory	George Modebadze	Major
4	CS221	Algorithms and Data Structures	CS50	6	48	102	mandatory	Giorgi Partskhaladze	Major
4		Practical Course of English Language IV	Practical Course of English Lan	6	90	60	mandatory	English Language Center	Free Component
4	EE310	Circuit Analysis II	EE210, MATH254	6	62	88	mandatory	Zurab Ratiani	Major
5	CE375	Embedded Systems	DE111, CE111, DE112	6	63	87	mandatory	Tsotne Putkaradze	Major
5	DE101	Introduction to Operating Systems	DE111	6	48	102	mandatory	George Modebadze	Major
5	CE470	Digital Circuits	EE300, EE310	6	32	118	mandatory	Tsotne Putkaradze	Major
5	EE410	Signals and Systems	EE300, EE310	6	47	103	mandatory	George Veshapidze	Major
5	P737	Academic Techniques	No Prerequisite	6	34	116	mandatory	Center of Academic Techniqies	Free Component
6	R205	Basics of Entrepreneurship	No Prerequisite	6	32	118	mandatory	Business School	Free Component
6	To77	Architecture and Programming of Microprocessors	DE111, CE470	6	63	87	mandatory	David Chkhaidze	Major
6	MATH311	Principles of Numerical Methods	MATH252, MATH254	6	63	87	mandatory	Ivane Murusidze	Major
6	CS326	System Programming	DE111	6	77	73	mandatory	George Modebadze	Major
6		Elective		6			elective		Major
7	To28	IT Project Management	CS50	6	32	118	elective	Nino Kodzakhidze	Major
7	CS223	Introduction to Cybersecurity	CS312	6	48	102	mandatory	Paata Gogishvili	Major
7	CE490A	Senior Design Project A	At least 102 ECTS in Major Pro	6	34	116	mandatory	David Chkhaidze, Giorgi Modebadze	Major
7		elective		6			elective		Major
7		elective		6			elective		Major
8	CE490B	Senior Design Project B	CE490A	6	48	102	mandatory	David Chkhaidze, Giorgi Modebadze	Major
8	CHEM100	Introduction to General Chemistry (Including Lab)	No Prerequisite	8	62	138	mandatory	Ketevan Kupatadze	Free Component
8		elective		6			elective		Major
8		elective		6			elective		Major
8		elective		6			elective		Major
Elective Courses									
6	U837	Drone	No Prerequisite	6	47	103	elective	Avtandil Mgheshvili	Major
6	CE470L	Digital Logic Laboratory	CE470	6	48	102	elective	Tsotne Putkaradze	Major
6	S826	Introduction to Computer Modeling	CE111, MATH151	6	33	117	elective	Ivane Murusidze	Major
6	To26	Software Architecture and Engineering	CE111, CS221	6	63	87	elective		Major
6	CS212	Cyber Law and Ethics	No Prerequisite	6	47	103	elective	Nino Niauri, Nino Jincharadze	Major
6	CS325	Computer Graphics	CE111, CS221	6	48	102	elective	Giorgi Partskhaladze	Major
6	EE380	Electrical Energy Conversion	EE310	6	62	88	elective	Archil Gvimradze	Major
7	CS214	Introduction to Computational Linguistics	CS50, DE112	6	47	103	elective	Irina Lobjanidze	Major
7	CS222	Advanced Algorithms and Data Structures	CS221	6	48	102	elective	Giorgi Partskhaladze	Major
7	CS311	Programming Languages	CE111	6	47	103	elective	Revaz Tatishvili	Major
7	CS314	Distributed and Parallel Computing	CS312	6	48	102	elective	Erekle Magradze	Major
7	CS322	Databases and Information Systems	CS312, CS221	6	47	103	elective		Major

7	CS413	Web Programming	CS50	6	48	102	elective	Teimuraz Tutberidze	Major
7	CS417	Introduction to Natural Language Processing	EE300	6	47	103	elective	Irina Lobjanidze	Major
7	EE458	Analog and Pulse Communication Systems	EE410	6	62	88	elective	George Veshapidze	Major
7	EE480	Power System Analysis	EE380	6	62	88	elective	Archil Gvimradze	Major
7	EE534	Solid State Devices	PHYS196	6	62	88	elective	Zurab Ratiani	Major
8	EE420	Feedback Control Systems	EE410	6	47	103	elective	George Veshapidze	Major
8	CS321	Introduction to Machine Learning	CS50, MATH254	6	48	102	elective	Shota Tsiskaridze	Major
8	CS324	Artificial Neural Networks	EE300	6	63	87	elective	Paata Gogishvili	Major
8	CS424	DevOps Technologies	DE101, CS312	6	48	102	elective	Erekle Magradze	Major
8	CS421	Mobile Applications Development	DE111	6	48	102	elective	Teimuraz Tutberidze	Major
8	CS425	Message Queueing and Data Streaming	Co-requisite: CS322	6	48	102	elective	Erekle Magradze	Major
8	CS426	Big Data Systems	Co-requisite: CS322	6	48	102	elective	Erekle Magradze	Major
8	EE450	Digital Signal Processing	EE410	6	47	103	elective	George Veshapidze	Major
8	EE483	Power Distribution Systems	EE380	6	62	88	elective	Archil Gvimradze	Major
8	EE558	Digital Communications	EE458	6	47	103	elective	George Veshapidze	Major
8	EE581	Power System Dynamics	EE480	6	62	88	elective		Major

