

Civil Engineering (Major)										
Semester	Code	Title	Prerequisites	ECTS	Contact Hours	Independent Hours	Status	Instructor	EQE Module	ABET Module
1	GE100	Academic Techniques	No Prerequisite	6	34	116	Mandatory	Maia Rogava	Free Component	General Education
1	CS50	Introduction to Programming	No Prerequisite	6	80	70	Mandatory		Major	General Education
1	Q185/R576/P43	English Language Course C1-1 / Practical Course of German I / Practical Course of Georgian for Foreigners (A1.1)		6	50	100	Elective	Maia Rogava	Free Component	General Education
1	MATH150	Calculus I	No Prerequisite	6	62	88	Mandatory	Mariam Manjikasvhili/Mariam Mikelashvili	Free Component	Math & Basic Sciences
1	CHEM100	Introduction to General Chemistry (Including Lab)	No Prerequisite	8	62	138	Mandatory	Ketevan Kupatadze	Free Component	Math & Basic Sciences
1	CIVE100	Introduction to Civil Engineering	No Prerequisite	2	17	33	Mandatory	Vakhtang Balavadze	Major	Engineering
2	GE102	Introduction to Modern Thought I	No Prerequisite	6	31	119	Mandatory	Tamar Tolordava	Free Component	General Education
2	Q955/S058/P73	English Language Course C1-2/ Practical Course of German II / Practical Course of Georgian for Foreigners (A1.2)	Practical Course of Foreign language I	6	50	100	Elective	Maia Rogava	Free Component	General Education
2	MATH151	Calculus II	MATH150	6	62	88	Mandatory	Mariam Manjikasvhili/Mariam Mikelashvili	Free Component	Math & Basic Sciences
2	PHYS195	Basics of Physics I (Including Lab)	MATH150	8	77	123	Mandatory	Giorgi Dalakishvili	Free Component	Math & Basic Sciences
2	CIVE121	Computer Graphics for the Built Environment	No Prerequisite	6	62	88	Mandatory	Koba Surmava	Major	Engineering
3	BIOL100	Biology for Engineers	No Prerequisite	6		150	Mandatory	Natalia Kiknadze	Free Component	Math & Basic Sciences
3	PHYS196	Basics of Physics II	PYS195	6	47	103	Mandatory	Giorgi Dalakishvili	Free Component	Math & Basic Sciences
3	MATH252	Calculus III	MATH151	6	62	88	Mandatory	Mariam Manjikasvhili/Mariam Mikelashvili	Free Component	Math & Basic Sciences
3	CIVE218	Surveying for Civil Engineering and Construction	MATH151	6	47	103	Mandatory	Giorgi Kirkitadze	Major	Engineering
3	ME101	Applied Mechanics I (Statics)	PHYS195, MATH151	6	47	103	Mandatory	Lali Kajaia	Major	Engineering
4	AE280	Numerical Analysis	MATH151	6	47	103	Mandatory	Avtandil Tavkhelidze	Major	Math & Basic Sciences
4	STAT250	Probability and Statistics	MATH252	6	45	105	Mandatory	Nato Jorjashvili	Major	Math & Basic Sciences
4	ME201	Applied Mechanics II (Dynamics)	ME101	6	47	103	Mandatory	Lali Kajaia	Major	Engineering
4	CIVE301	Introduction to Solid Mechanics (Including Lab)	ME101	8	77	123	Mandatory	Lali Kajaia	Major	Engineering
4	ME 240	Introduction to Engineering Materials	CHEM100, ME101	6	47	103	Mandatory	Avtandil Tavkhelidze	Major	Engineering
5	CIVE321	Structural Analysis I	CIVE301	6	47	103	Mandatory	Konstantine Chkhikvadze	Major	Engineering
5	ME340	Fluid Mechanics	ME201	6	47	103	Mandatory	Temur Stephania	Major	Engineering
5		Elective - Natural Science		8			Elective		Major	Math & Basic Sciences
5	CONE330	Principles of Engineering Economy	STAT250	6	47	103	Mandatory	Vakhtang Balavadze	Major	Engineering
5		Elective - Business Administration	No Prerequisite	6			Elective		Free Component	General Education
6		Elective - 1		6			Elective		Major	Engineering
6	CIVE220	Civil Engineering Computer Applications	CIVE321	6	47	103	Mandatory	Konstantine Chkhikvadze/Davit Pirkulashvili	Major	Engineering
6	CIVE444	Applied Hydraulics (Including lab)	ME 340	8	90	123	Mandatory	Temur Stephania	Major	Engineering
6	CIVE481	Introduction to Transportation Engineering	CIVE218	6	47	103	Mandatory	Vakhtang Jghamaia	Major	Engineering
6	ENVE355	Environmental Engineering	BIOL100	6	48	102	Mandatory	Luiza Bubashvili	Major	Engineering
7		Elective - Management and Finance for future engineers	No Prerequisite	4			Mandatory		Major	General Education
7	CIVE421	Reinforced Concrete Design	CIVE321	6	47	103	Mandatory	Davit Pirkulashvili	Major	Engineering
7	CIVE462	Geotechnical Engineering (Including lab)	CIVE321	8	92	108	Mandatory	Irakli Urushadze	Major	Engineering
7		Elective 2		6			Elective		Major	Engineering
7		Elective 3		6			Elective		Major	Engineering
8	CIVE495	Senior Design Project	CIVE321, CIVE444, CIVE462, ENVE355	6	35	115	Mandatory		Major	Engineering
8		Elective - 4		6			Elective		Major	Engineering
8		Elective - 5		6			Elective		Major	Engineering
8		Elective - 6		6			Elective		Major	Engineering
8	CIVE401	Civil Engineering and Society	No Prerequisite	2	17	33	Mandatory	Vakhtang Balavadze	Major	Engineering
8		Elective - Management and Finance for future engineers	No Prerequisite	4			Mandatory		Major	General Education
Elective - Major										
Structural engineering										
	CIVE521	Structural Analysis II	CIVE321	6	47	103	Elective	Konstantine Chkhikvadze	Major	Engineering
	CIVE525	Design of Steel Structures	CIVE321	6	47	103	Elective	Nino Tabatadze	Major	Engineering

	CIVE528	Masonry Structure Design	CIVE321	6		150	Elective	Nino Tabatadze	Major	Engineering
	CIVE529	Design of Wood Structures	CIVE321	6		150	Elective	Nino Tabatadze	Major	Engineering
	CIVE530	Bridge Engineering	CIVE321	6		150	Elective	Giorgi Misabishvili	Major	Engineering
Selective Elective in Geotechnical Engineering										
	CIVE465	Foundation Eng. And Earth Retaining Structures	CIVE462	6	47	103	Elective	Igor Timchenko	Major	Engineering
	CIVE466	Soil Mechanics and Foundations	CIVE462	6		150	Elective	Levan Navrozashvili	Major	Engineering
Transportation engineering										
	CIVE482	Highway Engineering	CIVE481	6	47	103	Elective	Vakhtang Jghamaia	Major	Engineering
	CIVE580	Traffic Engineering Design	CIVE481	6	47	103	Elective	Vakhtang Jghamaia	Major	Engineering
Water resources engineering										
	CIVE445	Applied Hydrology	CIVE444	6	62	88	Elective	Nika Tsitelashvili	Major	Engineering
	CIVE446	Hydraulic Structures	CIVE444	6		150	Elective	Temur Stephania	Major	Engineering
Technology and Environmental Engineering										
	EN441	Water Treatment Engineering (incl. Wastewater)	ENV355, CIVE444	6	47	103	Elective	Elina Bakradze	Major	Engineering
	DE120	Introduction to Energy Systems and Technologies	No Prerequisite	6	48	102	Elective	Murman Margvelashvili	Major	Engineering
	DE117	Systems, Sustainability, and Climate change - Introduction	No Prerequisite	6	48	102	Elective	Murman Margvelashvili	Major	Engineering
	UNI007	Introduction to Artificial Intelligence	No Prerequisite	6	48	102	Elective	Paata Gogishvili/Erekle Magradze	Major	Engineering
Construction engineering										
	CIVE403	Applied Drone Photogrammetry for Architectural Surveying and Mapping	No Prerequisite	6	48	102	Elective	Giorgi Kirkidze	Major	Engineering
	CONE401	Construction Planning and Scheduling	CIVE321, STAT250	6	77	73	Elective	Vakhtang Balavadze	Major	Engineering
Elective - Natural Science										
	ECOL100	Ecology - ecosystem	No Prerequisite	8	48	102	Elective	Archil Magalashvili	Free Component	Math & Basic Sciences
	GEOL100	Geology	No Prerequisite	8	48	102	Elective	Archil Magalashvili	Free Component	Math & Basic Sciences
	CHEM200	General Chemistry II	CHEM100	8	62	88	Elective	Ketevan Kupatadze	Free Component	Math & Basic Sciences
Elective - General Education										
Business Administration										
		Business Communications	No Prerequisite	6	32	118	Elective		Free Component	General Education
		Essentials of Management	No Prerequisite	6	32	118	Elective		Free Component	General Education
		Introduction to Marketing	No Prerequisite	6	32	118	Elective		Free Component	General Education
		Basics of Business	No Prerequisite	6	32	118	Elective		Free Component	General Education
		Basics of Entrepreneurship	No Prerequisite	6	32	118	Elective		Free Component	General Education
Management and Finance for future engineers										
		Economic thinking	No Prerequisite	4	32	118	Elective	Lasha Tabatadze, Vakhtang Balavadze	Free Component	General Education
		Innovation and Urban Economics	No Prerequisite	4	32	118	Elective	Lasha Tabatadze, Vakhtang Balavadze	Free Component	General Education
		Project Management for Engineers	No Prerequisite	4	32	118	Elective	Vakhtang Balavadze	Free Component	General Education