

Code	Course Title
GE 100	Academic Techniques
CS50	Introduction to Programming
GE/LAN 100	Practical Course of Georgian (German/English)
MATH 150	Calculus I
CHEM 100	Introduction to General Chemistry (Including Lab)
CIVE 100	Introduction to Civil Engineering
Total	
Code	Course Title
GE 102	Introduction to Modern Thought I
GE/LAN 200	Practical Course of Georgian (German/English)
MATH 151	Calculus II
PHYS 195	Basics of Physics I (Including Lab)
CIVE 121	Computer Graphics for the Built Environment
Total	
Cumulative Total	
Code	Course Title
GE	Approved Elective (Natural Science)
PHYS 196	Basics of Physics II
MATH 252	Calculus III
CIVE 220	Civil Engineering Computer Applications (GIS)
ME 101	Applied mechanics I (Statics)
Total	
Code	Course Title
GE	Approved Elective (Business Administration)
AE 280	Numerical Analysis
CIVE 218	Surveying for Civil Engineering and Construction
STAT 250	Probability and Statistics
ME 201	Applied mechanics II (Dynamics)
Total	
Cumulative Total	
Code	Course Title
Biol 100	Biology for Engineers
ME 340	Fluid Mechanics

CIVE 301	Introduction to Solid Mechanics (Including Lab)
CONE 330	Principles of Engineering Economy
ME 240	Introduction to Engineering Materials
Total	
Code	Course Title
	Elective 1
CIVE 321	Structural Analysis I
CIVE 444	Applied Hydraulics (Including lab)
CIVE 481	Introduction to Transportation Engineering
ENVE 355	Environmental Engineering
Total	
Cumulative Total	
Code	Course Title
CONE 101	Construction and Culture
CIVE 421	Reinforced Concrete Design
CIVE 462	Geotechnical Engineering (Including lab)
	Approved Elective 1 (Major)
	Approved Elective 2 (Major)
Total	
Code	Course Title
CIVE 495	Senior Design Project
	Approved Elective 3 (Major)
	Approved Elective 4 (Major)
	Approved Elective 5 (Major)
CIVE 401	Civil Engineering and Society
	Elective 2
Total	
Cumulative Total	
SUM	

Code	Course Title
Structural engineering	
CIVE 521	Structural Analysis II
CIVE 525	Design of Steel Structures
Geotechnical engineering	
CIVE 465	Foundation Eng. And Earth Retaining Structures
Transportation engineering	
CIVE 482	Highway Engineering
CIVE 580	Traffic Engineering Design

Construction engineering

CONE 401	Construction Planning and Scheduling
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Water resources engineering

CIVE 445	Applied Hydrology
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Environmental engineering

EN441	Water Treatment Engineering (incl. Wastewater)
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Code	Course Title
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Natural Sciences

Ecol 100	Ecology - ecosystem
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Geol 100	Geology
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CHEM 200	General Chemistry II
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Business Administration

1	Business Communications
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2	Essentials of Management
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3	Introduction to Marketing
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4	Basics of Business
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Management and Finance for future engineers

1	Economic thinking
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2	Economics and applied econometrics of innovation
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3	Project Management for Engineers
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Civil Engineering-Semester Plan

First Year		
Fall Semester		
Prerequisites	ECTS	Contc. Hrs.
N/A	6	34
N/A	6	80
ISU Test	6	52
	6	62
N/A	8	62
N/A	2	17
	34	
Spring Semester		
Prerequisites	ECTS	
N/A	6	31
Practical Course of Foreign language I	6	50
MTH150 Calculus I	6	62
MTH150 Calculus I	8	77
N/A	6	62
	32	
total	66	
Second Year		
Fall Semester		
Prerequisites	ECTS	
	8	
PYS 195 Basics of Physics I (Including Lab)	6	47
MTH151 Calculus II	6	62
MTH150 Calculus I	6	47
PYS195 & MTH 151	6	47
	32	
Spring Semester		
Prerequisites	ECTS	
	6	
MTH151 Calculus II	6	47
MTH151 Calculus II	6	47
MTH150 Calculus I	6	45
ME 101 Applied mechanics I (Statics)	6	47
	30	
total	62	
Third Year		
Fall Semester		
Prerequisites	ECTS	
N/A	6	32
MTH151, ME 201	6	47

ME101	8	77
MTH151 Calculus II, STAT 250 Probability and Statistics	6	47
CHEM 100, ME 101	6	47
	32	

Spring Semester

Prerequisites	ECTS	
N/A	4	
CIVE 301	6	47
AE 340 Fluid Mechanics	8	77
CIVE 218, CIVE 121	6	47
CHEM 100 & Biol 100	6	48
	30	
total	62	

Fourth Year

Fall Semester

Prerequisites	ECTS	
N/A	6	47
CIVE 321	6	47
CIVE 301	8	92
	6	
	6	
	32	

Spring Semester

Prerequisites	ECTS	
CIVE321, CIVE444, CIVE462, CIVE481, ENVE355, CONE 330	6	35
	6	
	6	
	6	
N/A	2	17
N/A	4	
	30	
total	62	
	252	

Approved Elective (Major) Courses

Prerequisites	ECTS	Contc. Hrs.
CIVE 321 Structural Analysis I	6	47
CIVE 321 Structural Analysis I	6	47
CIVE 462 Geotechnical Eng.	6	47
CIVE 481 Intro to Transpor. Eng.	6	47
CIVE 481 Intro to Transpor. Eng.	6	47

CIVE 321, STAT 250	6	77
CIVE 444 Applied Hydraulics	6	62
ENV 355, CIVE 444	6	47

Elective Courses		
Prerequisites	ECTS	Contc. Hrs.
N/A	8	48
N/A	8	48
CHEM 100 General Chemistry	8	62
N/A	6	32
N/A	6	32
N/A	6	32
N/A	6	32
N/A	4	32
N/A	4	32
N/A	4	32

Vakhtang Balavadze, Giorgi Kaladze
Nika Tselashvili
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Instructor
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Archil Magalashvili
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Lasha Tabatadze, Vakhtang Balavadze
Vakhtang Balavadze

	Code	Course Title	ECTS
GE	GE 100	Academic Techniques	6
GE	GE 101	Introduction to Programming	6
GE	GE/LAN 100	Practical Course of Georgian (German/English)	6
GE	GE 102	Introduction to Modern Thought I	6
GE	GE/LAN 200	Practical Course of Georgian (German/English)	6
GE	GE	Approved Elective	4
GE	GE	Approved Elective	4
GE		Elective 2 (Business Administration)	6
			44

	Code	Course Title	ECTS
M&BS	MATH 150	Calculus I	6
M&BS	CHEM 100	General Chemistry (Including Lab)	8
M&BS	MATH 151	Calculus II	6
M&BS	PHYS 195	Physics I (Including Lab)	8
M&BS	PHYS 196	Physics II	6
M&BS	MATH 252	Calculus III	6
M&BS	AE 280	Numerical Analysis	6
M&BS	STAT 250	Probability and Statistics	6
M&BS	Biol 100	Biology for Engineers	6
M&BS		Elective 1 (Natural Sciences)	8
			66

	Code	Course Title	ECTS
Major	CIVE 100	Introduction to Civil Engineering	2
Major	CIVE 121	Computer Graphics for the Built Environment	6
Major	CIVE 220	Civil Engineering Computer Applications (GIS)	6
Major	ME 101	Applied mechanics I (Statics)	6
Major	CIVE 218	Surveying for Civil Engineering and Construction	6
Major	ME 201	Applied mechanics II (Dynamics)	6
Major	ME 340	Fluid Mechanics	6
Major	CIVE 301	Introduction to Solid Mechanics (Including Lab)	8
Major	CONE 330	Principles of Engineering Economy	6

Major	ME 240	Introduction to Engineering Materials	6
Major	CIVE 321	Structural Analysis I	6
Major	CIVE 444	Applied Hydraulics (Including lab)	8
Major	CIVE 481	Introduction to Transportation Engineering	6
Major	ENVE 355	Environmental Engineering	6
Major	CONE 101	Construction and Culture	6
Major	CIVE 401	Civil Engineering and Society	2
Major	CIVE 421	Reinforced Concrete Design	6
Major	CIVE 462	Geotechnical Engineering (Including lab)	8
Major	CIVE 495*	Senior Design Project	6
Major		Approved Elective 1 (Major)	6
Major		Approved Elective 2 (Major)	6
Major		Approved Elective 3 (Major)	6
Major		Approved Elective 4 (Major)	6
Major		Approved Elective 5 (Major)	6
			142

Total 252