

Geological Engineering

	Course Number and Title		AU	Math+ NS	Math	Natural Science	Comp. Studies	Eng'g Science	Eng'g Design	ES+ED
1A	CHE102	Chemistry for Engineers	48.0	48.0	0.0	48.0	0.0	0.0	0.0	0.0
	ENVE100	Environmental & Geological Engineering Concepts	60.0	0.0	0.0	0.0	20.0	20.0	20.0	40.0
	CIVE104	Mechanics 1	24.0	18.0	0.0	18.0	0.0	6.0	0.0	6.0
	CIVE115	Linear Algebra	24.0	24.0	24.0	0.0	0.0	0.0	0.0	0.0
	MATH116	Calculus 1 for Engineering	48.0	48.0	48.0	0.0	0.0	0.0	0.0	0.0
1B	CIVE105	Mechanics 2	60.0	15.0	0.0	15.0	0.0	45.0	0.0	45.0
	CIVE121	Computational Methods	48.0	12.0	12.0	0.0	0.0	36.0	0.0	36.0
	GENE123	Electrical Circuits & Instrumentation	51.0	12.8	0.0	12.8	0.0	38.3	0.0	38.3
	GEOE153	Earth Engineering	54.0	21.6	0.0	21.6	0.0	21.6	10.8	32.4
	MATH118	Calculus 2 For Engineering	48.0	48.0	48.0	0.0	0.0	0.0	0.0	0.0
2A	EARTH238	Introductory Structural Geology	60.0	30.0	0.0	30.0	0.0	30.0	0.0	30.0
	ENVE223	Differential Equations & Balance Laws	42.0	31.5	31.5	0.0	0.0	10.5	0.0	10.5
	ENVE224	Probability and Statistics	42.0	21.0	21.0	0.0	0.0	21.0	0.0	21.0
	ENVE280	Fluid Mechanics	46.0	11.5	0.0	11.5	0.0	23.0	11.5	34.5
2B	CIVE204	Solid Mechanics 1	48.0	0.0	0.0	0.0	0.0	36.0	12.0	48.0
	CIVE221	Advanced Calculus	42.0	31.5	31.5	0.0	0.0	10.5	0.0	10.5
	EARTH231	Mineralogy	42.0	31.5	0.0	31.5	0.0	10.5	0.0	10.5
	EARTH235	Stratigraphy and Earth History	48.0	36.0	0.0	36.0	0.0	12.0	0.0	12.0
	EARTH260	Applied Geophysics 1	48.0	18.0	0.0	18.0	0.0	18.0	12.0	30.0
	WkRpt200	Work-term Report	11.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3A	CIVE353	Geotechnical Engineering 1	54.0	0.0	0.0	0.0	0.0	54.0	0.0	54.0
	CIVE392	Economics and Life Cycle Analysis	42.0	0.0	0.0	0.0	42.0	0.0	0.0	0.0
	EARTH232	Petrography	54.0	40.5	0.0	40.5	0.0	13.5	0.0	13.5
	EARTH458+458L	Physical Hydrogeology + Lab	42.0	10.5	0.0	10.5	0.0	21.0	10.5	31.5
	WkRpt300	Work-term Report	11.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3B	CIVE382	Hydrology and Open Channel Flow	44.0	11.0	0.0	11.0	0.0	22.0	11.0	33.0
	EARTH333	Introductory Sedimentology	54.0	40.5	0.0	40.5	0.0	13.5	0.0	13.5
	EARTH390	Methods in Geological Mapping	60.0	15.0	0.0	15.0	0.0	30.0	15.0	45.0
	EARTH437	Rock Mechanics	54.0	13.5	0.0	13.5	0.0	13.5	27.0	40.5
	EARTH438	Engineering Geology	42.0	0.0	0.0	0.0	0.0	21.0	21.0	42.0
4A	CIVE354	Geotechnical Engineering 2	42.0	0.0	0.0	0.0	0.0	10.5	31.5	42.0
	GEOE400	Geological Engineering Design Project 1	45.9	0.0	0.0	0.0	0.0	0.0	45.9	45.9

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	WkRpt400	Work-term Report	11.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4B	CIVE554	Geotechnical Engineering 3	42.0	0.0	0.0	0.0	0.0	0.0	42.0	42.0
	GENE411	Engineering Law and Ethics	36.0	0.0	0.0	0.0	36.0	0.0	0.0	0.0
	GEOE401	Geological Engineering Design Project 2	45.9	0.0	0.0	0.0	0.0	0.0	45.9	45.9
	ARCH277	Timber: Design, Structure & Construction	36.0	0.0	0.0	0.0	0.0	18.0	18.0	36.0
Technical Electives	CIVE205	Solid Mechanics 2	48.0	0.0	0.0	0.0	0.0	48.0	0.0	48.0
	EARTH221	Geochemistry 1	42.0	31.5	0.0	31.5	0.0	10.5	0.0	10.5
	CIVE306	Mechanics of Solids 3	42.0	0.0	0.0	0.0	0.0	31.5	10.5	42.0
	CIVE310	Introduction to Structural Design	62.0	0.0	0.0	0.0	0.0	15.5	46.5	62.0
	CIVE375	Environmental Engineering Principles	48.0	19.2	0.0	19.2	0.0	28.8	0.0	28.8
	EARTH331	Volcanology and Igneous Petrology	42.0	21.0	0.0	21.0	0.0	21.0	0.0	21.0
	EARTH332	Metamorphic Petrology	42.0	21.0	0.0	21.0	0.0	21.0	0.0	21.0
	EARTH342	Applied Geomorphology	36.0	14.4	0.0	14.4	0.0	10.8	10.8	21.6
	EARTH359	Flow Through Porous Media	42.0	21.0	0.0	21.0	0.0	21.0	0.0	21.0
	EARTH421	Geochemistry 2	54.0	27.0	0.0	27.0	0.0	27.0	0.0	27.0
	EARTH440	Quaternary Geology	42.0	21.0	0.0	21.0	0.0	21.0	0.0	21.0
	EARTH444	Applied Wetland Science	36.0	18.0	0.0	18.0	0.0	18.0	0.0	18.0
	EARTH461+46	Applied Geophysics 3+Lab	42.0	10.5	0.0	10.5	0.0	21.0	10.5	31.5
	CHE514	Fundamentals of Petroleum Production	36.0	0.0	0.0	0.0	0.0	25.2	10.8	36.0
	CIVE303	Structural Analysis 1	42.0	0.0	0.0	0.0	0.0	42.0	0.0	42.0
	CIVE332	Civil Systems and Project Management	42.0	10.5	10.5	0.0	0.0	21.0	10.5	31.5
	CIVE422	Finite Element Analysis	42.0	21.0	10.5	10.5	0.0	21.0	0.0	21.0
	CIVE460	Engineering Biomechanics	42.0	14.7	0.0	14.7	0.0	14.7	12.6	27.3
	CIVE507	Building Science and Technology	42.0	10.5	0.0	10.5	0.0	21.0	10.5	31.5
	CIVE542	Pavement Structural Design	42.0	0.0	0.0	0.0	0.0	0.0	42.0	42.0
	CIVE583	Design of Urban Water Systems	42.0	0.0	0.0	0.0	0.0	10.5	31.5	42.0
	EARTH435	Advanced Structural Geology	54.0	27.0	0.0	27.0	0.0	27.0	0.0	27.0
	EARTH444	Applied Wetland Science	36.0	18.0	0.0	18.0	0.0	18.0	0.0	18.0
	EARTH456	Groundwater Modelling	42.0	10.5	0.0	10.5	0.0	21.0	10.5	31.5
	EARTH459	Chemical Hydrogeology	42.0	21.0	0.0	21.0	0.0	21.0	0.0	21.0
	EARTH460	Applied Geophysics 2	48.0	28.8	12.0	16.8	0.0	19.2	0.0	19.2
	EARTH471	Mineral Deposits	54.0	13.5	0.0	13.5	0.0	40.5	0.0	40.5
	ENVE383	Advanced Hydrology & Hydraulics	44	0	0	0	0	33	11	44
	ENVE573	Contaminant Transport	42.0	0.0	0.0	0.0	0.0	42.0	0.0	42.0
	ENVE577	Engineering for Solid Waste Management	48.0	0.0	0.0	0.0	0.0	14.4	33.6	48.0
	CIVE596	Construction Engineering	42.0	0.0	0.0	0.0	12.6	16.8	12.6	29.4