Form 08/13

Course Checklist
Geological Engineering

Name _____
Major Declared in _____

FRESHMAN YEAR

Passed ( )	Credit	Grade	**First Semester**		
_____	_____	_____	CHEM	112	General Chem. I
_____	_____	_____	MATH	123	Calculus I
_____	_____	_____	ENGL	101	Composition I
_____	_____	_____	GEOE	110	Intro. to Geol. Engineering
_____	_____	_____	Goal 3 Elective _____		
_____	_____	_____	Goal 4 Elective _____		
			Second Semester		
_____	_____	_____	CHEM	114	General Chem. II
_____	_____	_____	CHEM	112L	Gen. Chem. I Lab
_____	_____	_____	MATH	125	Calculus II
_____	_____	_____	PHYS	211	University Physics I
_____	_____	_____	GEOE	221	Geology for Engineers
_____	_____	_____	CEE	117	Computer Aided Design

SOPHOMORE YEAR

Passed ( )	Credit	Grade	**First Semester**		
_____	_____	_____	EM	214	Eng. Mechanics (Statics)
_____	_____	_____	MATH	225	Calculus III
_____	_____	_____	PHYS	213	University Physics II
_____	_____	_____	MEM	201L	Surveying for Min. Engineers
_____	_____	_____	Goal 3 Elective _____		
			Second Semester		
_____	_____	_____	ENGL	279	Tech. Comm. I
_____	_____	_____	EM	321	Mechanics of Materials I
_____	_____	_____	GEOL	212	Mineral. & Crystallography
_____	_____	_____	MATH	321	Differential Equations
_____	_____	_____	Goal 4 Elective _____		

JUNIOR YEAR

Passed ( )	Credit	Grade	**First Semester**		
_____	_____	_____	GEOL	331	Stratigraphy & Sedimentation
_____	_____	_____	GEOL	341	Ign. and Met. Petrology
_____	_____	_____	CEE	346	Geotechnical Engineering I
_____	_____	_____	MET	320	Met. Thermodynamics
_____	_____	_____	ENGL	289	Tech. Comm. II
			Second Semester		
_____	_____	_____	GEOL	322	Structural Geology
_____	_____	_____	GEOE	324	Engineering Geophysics I
_____	_____	_____	EM	331	Fluid Mechanics
_____	_____	_____	GEOL	416	Intro. to GIS
_____	_____	_____	MEM	302	Mineral Economics

SUMMER

_____	_____	_____	GEOE	410	Engineering Field Geology

SENIOR YEAR

Passed ( )	Credit	Grade	**First Semester**		
_____	_____	_____	GEOE	466	Eng. and Environ. Geology
_____	_____	_____	GEOE	475	Ground Water
_____	_____	_____	Approved Elective_____		
_____	_____	_____	GEOE	464	Geol. Eng. Design Project I
_____	_____	_____	Professional Elective _____		
			Second Semester		
_____	_____	_____	MEM	304	Rock Mechanics I
_____	_____	_____	Professional Elective_____		
_____	_____	_____	GEOE	461	Petrol. Drilling & Prod. Eng.
_____	_____	_____	GEOE	465	Geol. Eng. Design Project II
_____	_____	_____	Upper-level Hum./S.S. Elective _____		

Professional Electives: Students may choose two of the following courses.

GEOE	451	Economic Geology
GEOE	482	Applied Geomorphology
ENVE	327	Environmental Engineering Process Analysis
ENVE	421	Environmental Systems Analysis
CEE	337	Engineering Hydrology
CEE	347	Geotechnical Engineering II
CEE	437	Watershed and Floodplain Modeling
CEE	447	Foundation Engineering
CEE	474	Engineering Project Management
ME	351	Mechatronics and Measurement Systems
MEM	301	Computer Applications in Mining
MEM	305	Introduction to Explosives Engineering
MEM	307	Mineral Exploration and Geostatistics
MEM	405	Mine Permitting and Reclamation
MEM	450	Rock Slope Engineering