MASTER OF SCIENCE IN GEOLOGY AND GEOLOGICAL ENGINEERING SPECIALIZ	<u>ZATION</u>	ENGINEERING
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a	credits:	
General Requirements: The student must complete the following minimum course		
Coursework (500 or above)** 24 cre	edits edits	on-Thesis Option 32 credits 0 credits 32 credits
** With thesis committee approval, up to 6 credits may be	400-level courses.	
M.S. Course Work Requirements for Geological Engine	ering Specialization	
The candidate's committee is responsible for assisting the s prepares the student for his/her intended field.	tudent in developing a p	program of study that
Course Requirements:		
GEOL 700 Research Methods (to be taken first fall ser	mester of enrollment)	
GEOL/GEOE course emphasizing field methods fulfilled by		
GEOL/GEOE course emphasizing analytical methods fulfilled by		
GEOL/GEOE course emphasizing computational methods fulfilled by		
Three focus areas are offered to M.S. candidates in the Geological Engineering Specialization. The recommended courses for each area are listed below.		
Ground Water and Environmental Focus: Recommended: GEOE 641 Geochemistry GEOE 663 Ground Water Geochemistry GEOE 664 Advanced Ground Water GEOE 682 Fluvial Processes GEOE 766 Digital Modeling of Ground Water GEOL 517 Geospatial Databases GEOL 519 Advanced Geospatial Analysis GEOL 633 Sedimentation CEE 519 Environmental Eng Process Design CEE 521 Environmental Systems Analysis CEE 634 Surface Water Hydrology CEE 730 Statistical Methods Water Resources CEE 731 Topics in Water Quality Assessment Geomechanics Focus: Recommended: GEOE 566 Engineering and Env Geology GEOE 664 Advanced Ground Water GEOE 768 Eng Geology of Surficial Deposits	CEE 645 Advance CEE 646 Stability CEE 647 Earth R MEM 525 Advance MEM 533 Comp. MEM 550 Rock S Energy and Mineral Recommended: GEOE 641 Geocle GEOE 663 Groune GEOL 576 Petrole GEOL 652 Problet GEOL 633 Sedime GEOL 650 Semine CEE 627 Treatment Management of Hazare CEE 784 Modelie	y of Soil and Rock Slopes etaining Structures aced Rock Mechanics . Apps Geoscience Modeling Slope Engineering Resources Focus: hemistry adwater Geochemistry leum Geology ems in Ore Deposits mentation mar in Ore Deposits ent, Disposal, and