

DATA ANALYTICS FOR PETROLEUM INDUSTRY - CERTIFICATE

This program equips students from diverse fields with data analytics skills for the oil and gas industry, addressing the growing need for data-driven expertise in exploration and operations.

Program Requirements

Code	Title	Semester Credit Hours
PETE 201	Introduction to Petroleum Engineering	1
STAT 483	Interdisciplinary Data Analytics Practicum	3
Computation and Programming		3
Select one of the following:		
CSCE 310	Database Systems	
CSCE 314	Programming Languages	
GEOP 361	Geophysical Signal Processing	
ISTM 313	Foundations of Data Analytics for Non-MIS Majors	
ISTM 315	Database Programming	
PETE 404	Integrated Reservoir Modeling	
STAT 404	Statistical Computing	
Statistics and Data		3
Select one of the following:		
CSCE 305/ ECEN 360/ STAT 315	Computational Data Science	
CSCE 320/ STAT 335	Principles of Data Science	
GEOL 360	Analyzing Data in Geology	
SCMT 305	Forecasting and the Statistical Foundation of Business Analytics	
STAT 408	Introduction to Linear Models	
Machine Learning		3
Select one of the following:		
CSCE 421	Machine Learning	
ISTM 360	Applied Predictive Analytics	
PETE 419	Petroleum Data Analytics and Machine Learning	
STAT 436	Multivariate Analysis and Statistical Learning	
Total Semester Credit Hours		13