

**Dave C. Swalm School of Chemical Engineering
Petroleum Engineering Geology/Technical Electives
Effective Spring 2018**

Geology Technical Electives
at least one required

Course	Title
GG 4063	Dev of Fossil Fuel Res
GG 4233	Applied Geophysics
GG 4304	Prin Sed Dep I
GG 4413	Structural Geology (future requirement)
GG 4433	Subsurface Methods
GR 4303	Principles of GIS
GR 4313	Advanced GIS
GR 4323	Cartographic Sciences

Technical Electives
at least two required

Course	Title
GG 4063	Dev of Fossil Fuel Res
GG 4233	Applied Geophysics
GG 4304	Prin Sed Dep I
GG 4413	Structural Geology (future requirement)
GG 4433	Subsurface Methods
GR 4303	Principles of GIS
GR 4313	Advanced GIS
GR 4323	Cartographic Sciences
IE 4333	Prod Control Sys I
IE 4513	Engineering Admin
IE 4533	Project Mgt
IE 4543	Logistic Engineering
IE 4573	Process Improvmnt Eng
IE 4623	Eng Statistics II
IE 4653	Ind Qual Control I
IE 4733	Linear Programming I (same as MA 4733/6733)
IE 4743	Eng Design Optimization (same as ASE 4553/6553 & EM 4143/6143)
IE 4753	System Engr & Analysis
IE 4773	Sys Simulation I
EM 2433	Engineering Mechanics II
EM 4123	Intro Finite Element
EM 4143	Eng Design Optimization
MA 3113	Intro Linear Algebra
MA 3353	Diff Equations II
MA 4153	Mat & Lin Algebra
MA 4243	Data Analysis I
MA 4253	Data Analysis II
MA 4313	Numerical Analysis I
MA 4373	Int Part Diff Equa
ST 4213	Nonparametric Meth
ST 4243	Data Analysis I (same as MA 4243)
ST 4253	Data Analysis II (same as MA 4253)
CSE 2383	Data Struc & Anal of Alg
ECE 3714	Digital Devices
EVE 3724	Microprocessors

Students will be allowed to propose a technical elective (not on the list above) only arising due to genuine scheduling conflicts (typically terminal semester). Approval will reside with Student's PTE Faculty adviser.