Suggested Arrangement of Courses for Eight-Semester Program

**FIRST YEAR**

<table>
<thead>
<tr>
<th>Semester</th>
<th>Fall Semester</th>
<th>Hours</th>
<th>Spring Semester</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>CH 301, Principles of Chemistry I</td>
<td>3</td>
<td>CH 302, Principles of Chemistry II</td>
<td>3</td>
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<tr>
<td></td>
<td>GEO 303, Introduction to Geology</td>
<td>3</td>
<td>PGE 301, Engineering, Energy and the Environment</td>
<td>3</td>
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<tr>
<td></td>
<td>M 408C, Differential and Integral Calculus</td>
<td>4</td>
<td>M 408D, Sequences, Series, and Multivariable Calculus</td>
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<tr>
<td></td>
<td>UGS 302/303, Undergraduate Studies Course</td>
<td>3</td>
<td>PHY 303K, Engineering Physics I</td>
<td>3</td>
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<tr>
<td></td>
<td>RHE 306, Rhetoric and Composition</td>
<td>3</td>
<td>PHY 103M, Laboratory for Physics 303K</td>
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Fine Arts/Humanities elective 

**TOTAL** ............................................. 16

**SECOND YEAR**

<table>
<thead>
<tr>
<th>Semester</th>
<th>Fall Semester</th>
<th>Hours</th>
<th>Spring Semester</th>
<th>Hours</th>
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<tbody>
<tr>
<td></td>
<td>PHY 303L, Engineering Physics II</td>
<td>3</td>
<td>E M 319, Mechanics of Solids</td>
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<tr>
<td></td>
<td>PHY 103N, Laboratory for Physics II</td>
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<td>GEO 316P, Sedimentary Rocks</td>
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<td></td>
<td>E M 306, Statics</td>
<td>3</td>
<td>PGE 333T, Engineering Communications</td>
<td>3</td>
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<tr>
<td></td>
<td>M 427K, Advanced Calculus for Applications I</td>
<td>4</td>
<td>PGE 322K, Transport Phenomena In Geosystems</td>
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<tr>
<td></td>
<td>PGE 312, Physical and Chemical Behavior of Fluids</td>
<td>3</td>
<td>Social Science Elective</td>
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<td></td>
<td>PGE 310, Formation and Solution of Geosystems Engineering Problems</td>
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**TOTAL** ............................................. 17

**THIRD YEAR**

<table>
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<tr>
<th>Semester</th>
<th>Fall Semester</th>
<th>Hours</th>
<th>Spring Semester</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>PGE 323K, Reservoir Engineering I - Primary Recovery</td>
<td>3</td>
<td>PGE 421, Physical and Chemical Behavior of Fluids II</td>
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<tr>
<td></td>
<td>PGE 430, Drilling and Well Completions</td>
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<td>PGE 323L, Reservoir Engineering II - Secondary and Tertiary Recovery</td>
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<td>PGE 424, Petrophysics</td>
<td>4</td>
<td>PGE 362, Production Technology and Design</td>
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<td></td>
<td>PGE 326, Thermodynamics and Phase Behavior</td>
<td>3</td>
<td>PGE 368, Fundamentals of Well Logging</td>
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<tr>
<td></td>
<td>American government</td>
<td>3</td>
<td>American history</td>
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**TOTAL** ............................................. 17

**FOURTH YEAR**

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<th>Semester</th>
<th>Fall Semester</th>
<th>Hours</th>
<th>Spring Semester</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>PGE 323M, Reservoir Engineering III Numerical Simulation</td>
<td>3</td>
<td>PGE 373L, Geosystems Engineering Design and AnalysisI</td>
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<tr>
<td></td>
<td>PGE 334, Reservoir Geomechanics</td>
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<td>Approved technical area elective</td>
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<tr>
<td></td>
<td>PGE 337, Introduction to Geostatistic</td>
<td>3</td>
<td>Approved technical area electives</td>
<td>3</td>
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<tr>
<td></td>
<td>PGE 365, Resource Economics and Valuation</td>
<td>3</td>
<td>E 316K</td>
<td>3</td>
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<tr>
<td></td>
<td>American government</td>
<td>3</td>
<td>American History</td>
<td>3</td>
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**TOTAL** ............................................. 15
PETROLEUM ENGINEERING UNDERGRADUATE CURRICULUM 2012-2014

BASIC SEQUENCE*

UGS 302 or 303 Visual & Perf. Arts Soc. Sci. Elect. GOV 310L American (US) HIS GOV 312L American (US) HIS

(16) (17) (17) (16) (17) (15) (15) Fall Spring Fall Spring Fall Spring

* C- or better is required of all basic sequence courses 128 total hours

MAJOR SEQUENCE

GEO 303 (401) Intro Geo
PHY 103M Lab for 303K PGE 362 Production
PHY 103N Lab for 303L PGE 323K Reservr 1: Prim. Rec
GEO 303 (401) Intro Geo
PHY 103M Lab for 303K PGE 362 Production
PHY 103N Lab for 303L PGE 323K Reservr 1: Prim. Rec
GEO 303 (401) Intro Geo
PHY 103M Lab for 303K PGE 362 Production
PHY 103N Lab for 303L PGE 323K Reservr 1: Prim. Rec

M 408C (K&L) Calculus 1 (1&2)
M 408D (M) Calculus 2 (3)
M 427K Diff. Equations
RHE 306 Rhetoric
CH 301 Chemistry 1
CH 302 Chemistry 2
PGE 301 Intro to PGE E M 306 Statics
PGE 301 Intro to PGE E M 306 Statics
PGE 301 Intro to PGE E M 306 Statics
PGE 301 Intro to PGE E M 306 Statics

E M 319 Solids
E M 319 Solids
E M 319 Solids
E M 319 Solids

M 408C (K&L) Calculus 1 (1&2)
M 408D (M) Calculus 2 (3)
M 427K Diff. Equations
RHE 306 Rhetoric
CH 301 Chemistry 1
CH 302 Chemistry 2
PGE 301 Intro to PGE E M 306 Statics
PGE 301 Intro to PGE E M 306 Statics
PGE 301 Intro to PGE E M 306 Statics
PGE 301 Intro to PGE E M 306 Statics

PGE 310 PGE Prob Solv.
PGE 322K Transport Phen
PGE 310 PGE Prob Solv.
PGE 322K Transport Phen
PGE 310 PGE Prob Solv.
PGE 322K Transport Phen
PGE 310 PGE Prob Solv.
PGE 322K Transport Phen
PGE 310 PGE Prob Solv.
PGE 322K Transport Phen

PGE 323K Reservr 1: Prim. Rec
PGE 323K Reservr 1: Prim. Rec
PGE 323K Reservr 1: Prim. Rec
PGE 323K Reservr 1: Prim. Rec

PGE 301 Intro to PGE E M 306 Statics
PGE 301 Intro to PGE E M 306 Statics
PGE 301 Intro to PGE E M 306 Statics
PGE 301 Intro to PGE E M 306 Statics