

**2023-24 PETROLEUM ENGINEERING**

Minimum credit hrs required - 134

|   |  |  |   |  |   |   |   |  |
|---|--|--|---|--|---|---|---|--|
|   | <b>Social Science</b><br>..(3)   | <b>Humanities</b><br>Lit courses > 300<br>Art History<br>Music<br>Philosophy<br>History<br>Foreign Lang<br>some T.C. | <b>Social Science</b><br>WGS<br>Economics<br>PS<br>Psych<br>Cult. Anth.   | <b>Humanities</b><br>..(3)   | <b>Social Science</b><br>..(3)  | <b>Humanities</b><br>..(3)  | <b>Social Science or Humanities Elective</b><br>..(3)   | <b>Name:</b><br><br><b>Date:</b>   |
| ENGL 1110 (3)<br><i>College English</i>   | ENGL 1120 (3)<br><i>College English</i><br>prerequisite: Engl 1110             |  |   | ENGL 3041 (3)<br><i>Technical Writing</i><br>prerequisite: Engl 1110, 1120 & junior standing |   |   | <b>SSH</b><br>Fine and<br>Creative Arts<br>..(3)  |  |
| MATH 1510 (4)<br><i>Calc I</i><br>prerequisite: Math 1240, 1230 or ACT math >29 or...             | MATH 1520 (4)<br><i>Calc II</i><br>prerequisite: Math 1510                     | MATH 2532 (4)<br><i>Calc III</i><br>prerequisite: Math 1520  | MATH 3035 (3)<br><i>Applied Analysis I</i><br>prerequisite: Math 1520   | PETR 3011 & L (4)<br><i>Drilling Engr I</i><br>prerequisite: ES 216, Coreq: ES 3002          | PETR 4013 (3)<br><i>Well Design</i><br>corequisite: PETR 3011                             | PETR 4024 (3)<br><i>Production Engr I</i><br>prerequisite: PETR 3045<br>ES 216                            | PETR 4025 (3)<br><i>Well Completions</i><br>prerequisite: PETR 3045<br>co-requisite: PETR 4013        |  |
| CHEM 1215 (3)<br><i>General Chem. I</i><br>prerequisite: Math 1240<br><br>corequisite: Chem 1215L |  | CHEM 1225 (3)<br><i>General Chem. II</i><br>prerequisite: Chem 1215 & lab<br>corequisite: Chem 1225L, Math 1510      | PETR 245+Lab (4)<br><i>Petroleum Fluids</i><br>prerequisite: Chem 1225, Math 1520<br>co-requisite: PETR 111                               | PETR 3045 (3)<br><i>Reservoir Engr I</i><br>Prerequisite: ES 216<br>co-requisite: PETR 245   | PETR 4045 (3)<br><i>Reservoir Engr II</i><br>prerequisite: PETR 3045                      | PET 4024+Lab (1)<br><i>Production Engr Lab</i><br>corequisite: PETR 4024                                  | PETR 4025Lab (1)<br><i>Well Completions Lab</i><br>co-requisite: PETR 4013<br>co-requisite: PETR 4025 |  |
| CHEM 1215 Lab (1)<br><i>General Chem Lab I</i><br>corequisite: Chem 1215                          |  | CHEM 1225 Lab (1)<br><i>General Chem Lab II</i><br>corequisite: Chem 1225  | ES 216 (3)<br><i>Fluid Mechanics</i><br>prereq: Phys 1310, coreq: Math 2532   | PETR 3045L (1)<br><i>Reservoir Engr I Lab</i><br>corequisite: PETR 3045                      |   | PETR 4070 (3)<br><i>Applied Res Simulation</i><br>prerequisite: PETR 4045                                 |   | <b>Legend</b><br>T - transfer<br><br>Sem/Yr - completed<br><br>- In Progress<br><br>D - drop<br><br>AP - adv placement<br><br>( ) credit hrs |
|   | PHYS 1310 (4)<br><i>General Physics I</i><br>corequisite: Phys 121L, Math 1510 | PHYS 1320 (4)<br><i>General Physics II</i><br>prerequisite: Phys 1310<br>corequisite: Phys 1320L, Math 1520          | ES 3047 (3)<br><i>Thermodynamics</i><br>prerequisite: Chem 1225, Math 1520, Phys 1310   |  | PETR 3070 (3)<br><i>Formation Evaluation</i><br>prerequisite: Phys 1320, PETR 3045 & L,   | PETR 4071 (3)<br><i>Capstone Design I</i><br>prerequisite: PETR 3070, PETR 4045<br>corequisite: PETR 4024 | PETR 4072 (3)<br><i>Capstone Design II</i><br>prerequisite: PETR 4071<br>corequisite: ES 3016         |  |
| PETR 101 (1)<br><i>Intro to Pet Eng</i>   | PHYS 1310 Lab (1)<br><i>General Physics Lab I</i><br>corequisite: Phys 1310    | PHYS 1320 Lab (1)<br><i>General Physics Lab II</i><br>corequisite: Phys 1320   |   |  | PETR 4050 (3)<br><i>Well Performance</i><br>prerequisite: PETR 3045, Math 3035            |   |   |  |
|   | PETR 111 (1)<br><i>Comp. appl. for pet engrs</i><br><br>corequisite: Math 104  | ES 201 (3)<br><i>Statics</i><br>prerequisite: Phy 1310<br>corequisite: Math 2532                                     | ES 3002 (3)<br><i>Mechanics of Materials</i><br>prerequisite: ES 201, Math 2532   | ES 3003 (3)<br><i>Dynamics</i><br>prerequisite: ES 201, Math 2532                            |   | ES 3016 (3)<br><i>Engr. Economics</i><br>prerequisite: Math 1520  |   |  |
| GEO 1110& 1110L ..(4)<br><i>Earth Processes</i>   |  |  | GEOL 2330 (3)<br><i>Earth's Crust: Mats, Processes &amp; Dynamics.</i><br><br>Prerequisite: a 100-level GEOL course and GEOL 1110 & 1110L |  | GEOL 4060 (3)<br><i>Subsurface &amp; Petroleum Geology</i><br><br>Prerequisite: GEOL 2330 |   | <i>Technical Elective</i><br>..(3)  |  |
| <b>16 hrs</b>   | <b>16 hrs</b>  | <b>16 hrs</b>  | <b>19 hrs</b>   | <b>17 hrs</b>  | <b>18 hrs</b>   | <b>16 hrs</b>   | <b>16 hrs</b>   |  |