

Engineering, Northwest College Certificate

Northwest College

FRESHMAN

| Fall Semester | | | Hrs | Spring Semester | | | Hrs |
|---------------|------|-------------------------------|-----|-----------------|------|------------------------------------|-----|
| Dept | # | Course Title | # | Dept | # | Course Title | # |
| ES | 1000 | Orientation to Eng. (Fa & Sp) | 1 | ES | 2110 | Statics (Fa & Sp) | 3 |
| MATH | 2200 | Calculus I (Fa & Sp) | 5 | MATH | 2205 | Calculus II (Fa & Sp) | 5 |
| CHEM | 1020 | General Chemistry I (Fa & Sp) | 5 | CHEM | 1030 | General Chemistry II (Fa & Sp) | 4 |
| ES | 1060 | Intro to Eng. Computing (Fa) | 3 | ENGL | 1010 | Intro To Composition (Fa, Sp & Su) | 3 |

TOTAL 14

TOTAL 15



SOPHOMORE

| Fall Semester | | | Hrs | Spring Semester | | | Hrs |
|---------------|------|-----------------------------|-----|-----------------|------|-------------------------------------|-----|
| Dept | # | Course Title | # | Dept | # | Course Title | # |
| MATH | 2210 | Calculus III (Fa) | 5 | MATH | 2310 | Applied Differential Equations (Sp) | 3 |
| PHYS | 1320 | College Physics II (Fa) | 4 | ES | 2310 | Thermodynamics (Sp) | 4 |
| ES | 2120 | Dynamics (Fa) | 3 | ES | 2330 | Fluids | 3 |
| ES | 2410 | Mechanics of Materials (Fa) | 3 | *POLS | 1000 | US/WY Govt | 3 |
| *CHEM | 2320 | Organic Chem I | 4 | | | | |

TOTAL 19

TOTAL 13

Total Transfer Hours 61

Transfer Recommendations and Notes:

*POLS 1000 OR HIST 1221 may be taken at NWC instead of UW

Student may choose to take one technical elective (from Senior Year) at NWC; choices are GEOL 1200, ES 2070, or ES 2210

Student must also complete 2 credits of PE Activity/Wellness and ENGL 1020 or 2005 to earn an A.S. Degree from NWC, but this is not necessary for transfer. If the student chooses to complete an AS degree, these courses are available Fa, Sp, and Su at NWC

CHEM 2320 may be taken at NWC (Fa, Soph. year) instead of CHEM 2300 at UW, student's preference

Northwest College or UW - Student's Choice

| Summer Semester | | | Hrs | Transfer Recommendations and Notes: |
|-------------------|------|-----------------|-----------------|---|
| Dept | # | Course Title | # | ¹ CO/M 1010 may be taken at NWC or UW, student's preference. The following courses (18 credits) are also available during the summer semester: PD/S 1000, ENGL 1010, CO/M 1010, HUM/VPA CCA Electives, and ES 2330, and may be taken at either NWC or UW. |
| HUM/VPA | CCA | Electives (2) | 6 | |
| ¹ CO/M | 1010 | Public Speaking | 3 | |
| TOTAL | | | <u>9</u> | |

Petroleum Engineering, Bachelor of Science

University of Wyoming

JUNIOR

| Fall Semester | | | | Hrs | Spring Semester | | | | Hrs |
|-------------------|------|-----------------------------|---|------------------|-----------------|------|-------------------------|---|------------------|
| Dept | # | Course Title | # | # | Dept | # | Course Title | # | # |
| PETE | 2050 | Fundamentals Petroleum Engr | 3 | # | PETE | 3200 | Reservoir Engineering | 3 | 3 |
| PETE | 2060 | Petroleum Engr Computing | 3 | # | PETE | 3265 | Drilling Fluids Lab | 3 | 3 |
| PETE | 3255 | Basic Drilling Engineering | 3 | # | PETE | 3715 | Production Engineering | 3 | 3 |
| PETE | 3015 | Multicomponent Thermo | 3 | # | PETE | 3725 | Well Bore Operations | 3 | 3 |
| [*] GEOL | 1100 | Physical Geology (Fa) | 4 | # | PETE | 4320 | Well Log Interpretation | 3 | 3 |
| | | | | # | PETE | 3100 | Rock and Fluids Lab | 2 | 2 |
| TOTAL | | | | <u>16</u> | TOTAL | | | | <u>17</u> |



SENIOR

| Fall Semester | | | | Hrs | Spring Semester | | | | Hrs |
|---------------|------|---------------------|---|------------------|-----------------|------|---------------------------|---------------------------|-------------------|
| Dept | # | Course Title | # | # | Dept | # | Course Title | # | # |
| PETE | 4225 | Well Test Analysis | 2 | # | PETE | 4736 | PETE Senior Design (COM3) | 4 | 4 |
| PETE | 4340 | Petroleum Economics | 3 | # | GEOL | 4190 | Petroleum Geology | 3 | 3 |
| | | Technical Elective | 3 | # | | | Technical Elective | 3 | 3 |
| | | Technical Elective | 3 | # | | | Technical Elective | 3 | 3 |
| | | Technical Elective | 3 | # | | | Technical Elective | 3 | 3 |
| TOTAL | | | | <u>14</u> | TOTAL | | | | <u>16</u> |
| | | | | | | | | Total Degree Hours | <u>133</u> |

Transfer Recommendations and Notes:

^{*}GEOL 1100 may be taken NWC (Fa only) or during the Junior year at UW, student's preference.