

## Program Curriculum

| <i>First Semester Freshman</i>               | <i>Semester Hours</i> |
|--|-----------------------|
| WCT 1113 Maintenance Mechanics               | 3                     |
| WCT 1135 Rotary Rig & Related Equipment      | 5                     |
| WCT 1613 Metal Fabrication for Well Drilling | 3                     |
| Computer Related Elective                    | 3                     |
| Mathematics/Science Elective                 | 3                     |
| LLS 1311 Orientation                         | <u>1</u>              |
| <b>Total Hours</b>                           | <b>18</b>             |

| <i>Second Semester</i>               | <i>Semester Hours</i> |
|--------------------------------------|-----------------------|
| WCT 1145 Operation of Rotary Rig and | 5                     |
| WCT 1313 Drilling Fluids             | 3                     |
| WCT 1513 Geological Formations       | 3                     |
| ENG 1113 English Composition I       | <u>3</u>              |
| <b>Total Hours</b>                   | <b>14</b>             |

| <i>Third Semester Sophomore</i>     | <i>Semester Hours</i> |
|-------------------------------------|-----------------------|
| ELT 1113 Residential Wiring         | 3                     |
| WCT 2223 Pump Theory & Installation | 3                     |
| WCT 2423 Water Well Construction    | 3                     |
| WCT 2433 Environment and            | 3                     |
| Humanities/Fine Arts Elective       | <u>3</u>              |
| <b>Total Hours</b>                  | <b>15</b>             |

| <i>Fourth Semester</i>                  | <i>Semester Hours</i> |
|---|-----------------------|
| WCT 2233 Well Testing & Completion      | 3                     |
| WCT 2333 Down-Hole Problems             | 3                     |
| Social/Behavioral Science Elective      | 3                     |
| SPT 1113 Oral Communication             | 3                     |
| Instructor-Approved Technical Electives | <u>6</u>              |
| <b>Total Hours</b>                      | <b>18</b>             |

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## Career Technical Education Well Construction Technology

### Program Description

The Well Construction Technology Program provides classroom and laboratory instruction in the use of rotary drilling and related equipment used in drilling for water, petroleum, and environmental or geo-technical operations. Classroom study covers the rotary rig, power equipment, mechanical maintenance, drilling fluids, hydraulics, and other areas associated with well drilling operations. Laboratory instruction includes hands-on operation of drilling rigs, maintenance of rigs, operation of related equipment, and drilling and completion of various types of wells. Included are basic welding, machine shop operations, hydraulics, and basic industrial electricity.

### Admission Requirements

Priority given to applicants with ACT composite of 17 or an equivalent ACCUPLACER score.

### Job Opportunities

Opportunities for technicians may exist in firms specializing in drilling for water, petroleum, environmental, and geo-technical operations. After one year of experience, Well Drilling Operations Technicians are eligible to apply for a Mississippi Water Well Contractor's License.

### Contact Information

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