

PETROLEUM TECHNOLOGY

AUTOMATION CERTIFICATE DEGREE PLAN

The automation certificate program is designed to prepare the student for employment as a technician in an industrial environment that uses automated assembly or processing equipment. Students are provided with knowledge and experiences in the areas of analog and digital electronics and fluid power. The program also provides individuals currently employed as maintenance personnel an opportunity to update their technical knowledge and skills with training and experiences using state-of-the-art high technology equipment.

FRESHMAN YEAR - FALL

| COURSE SECTION | COURSE TITLE | CREDIT HOURS |
|-------------------------|---------------------------------|--------------|
| INTC 1305 | Introduction to Instrumentation | 3 |
| ELPT 1311 | Basic Electrical Theory | 3 |
| ELMT 1301 | Programmable Logic Controllers | 3 |
| PTRT 1324 | Petroleum Instrumentation | 3 |
| ELPT 1325 | National Electric Code I | 3 |
| Fall Total Credit Hours | | 15 |

FRESHMAN YEAR - SPRING

| COURSE SECTION | COURSE TITLE | CREDIT HOURS |
|----------------------------|---|--------------|
| ELPT 1341 | Motor Control | 3 |
| PTRT 2359 | Petroleum Computer Applications | 3 |
| ELPT 1357 | Industrial Wiring | |
| HYDR 1305 | or Basic Hydraulics | 3 |
| RBTC 1309 | or Pneumatics | 3 |
| ELPT 2325 | National Electrical Code II | 3 |
| ELMT 2339 | Advanced Programmable Logic Controllers | 3 |
| Spring Total Credit Hours | | 15 |
| Program Total Credit Hours | | |