

ELECTRICIAN

Students entering an Electrical Program should meet the following physical requirements:

1. Finger and manual dexterity when working with electrical and mechanical systems.
2. Ability to distinguish different colors of wire and resistor colors.
3. Ability to climb, balance, stoop, kneel, and/or lift heavy loads.
4. Near-visual acuity and depth perception needed when working with small parts.

Regarding Electrical Practicum course: Any four hour course from the Allied Construction Trades may be substituted for ELPT 2265 Practicum by approval of the student's advisor or chairperson. For substitution approval, the student must be working in the electrical field or have had prior working experience in the electrical field.

ASSOCIATE OF APPLIED SCIENCE ELECTRICAL TRADES (2528)

TOTAL CREDIT HOURS REQUIRED: 70

| | Major | Gen. Educ. | Elective |
|--|-----------|---------------|-----------|
| YEAR 1 | | | |
| First Semester | | | |
| ELPT 1411 Basic Electrical Theory ----- | 4 | | |
| ELPT 1419 Fundamentals of Electricity I----- | 4 | | |
| ELPT 1429 Residential Wiring ----- | 4 | | |
| *SPCH 1321 Business/Professional Speech ----- | 3 | | |
| Second Semester | | | |
| ELPT 1420 Fundamentals of Electricity II ----- | 4 | | |
| ELPT 2423 Transformers ----- | 4 | | |
| ELPT 1445 Commercial Wiring ----- | 4 | | |
| *PHYS 1305 Introduction to Physics I----- | 3 | | |
| Summer Session | | | |
| ITSC 1301 Introduction to Computers ----- | 3 | | |
| *GOVT 2301 American/Texas ----- | 3 | | |
| YEAR 2 | | | |
| First Semester | | | |
| ELPT 1457 Industrial Wiring ----- | 4 | | |
| ELPT 2437 Electrical Planning & Estimating ----- | 4 | | |
| ELPT 1451 Electrical Machines ----- | 4 | | |
| *ENGL 1301 Freshman Composition I ----- | 3 | | |
| Second Semester | | | |
| ELPT 1441 Basic Motor Controls ----- | 4 | | |
| ELPT 2419 Programmable Logic Controller I----- | 4 | | |
| ELPT 1325 National Electrical Codes I ----- | 3 | | |
| ELPT 2325 National Electric Codes II ----- | 3 | | |
| ELPT 2265 Practicum ----- | 2 | | |
| *MATH 1373 College Mathematics ----- | 3 | | |
| TOTAL CREDIT HOURS: ----- | 52 | ----- | 18 |

*This is part of the General Academic Core Requirement, all substitutions must be approved prior to enrollment by a department advisor. Students wishing to transfer academic credits to other institutions or students transferring credits to St. Philip's College must also see a department advisor. See pages 99-100 for transferable courses.

**CERTIFICATE OF COMPLETION
ELECTRICAL TRADES (2528)**

TOTAL CREDIT HOURS REQUIRED: 30

| | Major | Gen. Educ. | Elective |
|--|-----------|---------------|----------|
| First Semester | | | |
| ELPT 1411 Basic Electrical Theory ----- | 4 | | |
| ELPT 1429 Residential Wiring ----- | 4 | | |
| ELPT 2423 Transformers ----- | 4 | | |
| Second Semester | | | |
| ELPT 1445 Commercial Wiring ----- | 4 | | |
| ELPT 1457 Industrial Wiring ----- | 4 | | |
| ELPT 1441 Basic Motor Controls ----- | 4 | | |
| Summer Session | | | |
| ELPT 1325 National Electrical Codes I----- | 3 | | |
| ELPT 2325 National Electric Codes II ----- | 3 | | |
| TOTAL CREDIT HOURS: ----- | 30 | | |