

CERTIFICATE IN ELECTRIC POWER SYSTEMS AND ENGINEERING

Program Description

The certificate in Electric Power Systems and Engineering will recognize the commitment and accomplishments of students studying in this area, and provide potential employers with evidence of the skills students have developed. Students studying in this area will become knowledgeable and proficient in the different skills this demanding field requires. This requires studying multiple subjects such as power system analysis, electric power distribution, relay protection, and smart grids. In addition, students will learn the methods and tools used to analyze and design power systems.

Admission Requirements

Must be enrolled as an Electrical and Electronic Engineering major

Program Requirements

| Code | Title | Units |
|--|------------------------------------|-----------|
| Required courses (11 Units) | | |
| EEE 141 | Power System Analysis I | 3 |
| EEE 142 | Power System Analysis II | 3 |
| EEE 143 | Power System Laboratory | 1 |
| EEE 192A | Electrical Power Design Project I | 2 |
| EEE 192B | Electrical Power Design Project II | 2 |
| Required Elective Courses (7 UNITS) | | |
| <i>Option 1</i> | | |
| Two 3 unit elective lecture courses in the power area | | |
| One 1-unit elective lab course in the power area | | |
| <i>Option 2</i> | | |
| One 3-unit elective lecture course in the power area | | |
| One 4-unit elective lecture+lab course in the power area | | |
| Total Units | | 18 |

Note: All such Power Engineering elective courses are listed in the BS EEE catalog located in <https://catalog.csus.edu/colleges/engineering-computer-science/engineering-electrical-electronic/bs-in-electrical-and-electronic-engineering/>