

Michigan Technological University

Certificate in Electric Power Engineering

Program Code CEPE, Academic Year 2021-22

Department of Electrical and Computer Engineering

Total Credits Required: 13

Student Name: _____ M# _____

Certificate Requirements

- Certificates are offered to undergraduate level, poste-degree students who have previously completed a Bachelor's degree
- Students must earn a grade of C or better in each course used to meet certificate requirements
- Students must complete at least nine credits of upper division course work (3000- level or above) and at least half of the total credits required must be taken at Michigan Tech

Required Courses

Course	Credits
EE 4221 Power System Analysis I	3
EE 4222 Power System Analysis II	3
EE 4226 Power Engineering Lab	1

Elective Courses: Select 6 credits minimum

Course	Credits
EE 3010 Circuits and Instrumentation	3
EE 3120 Electric Energy Systems	3
EE 4219 Intro to Electric Machinery and Drives	3
EE 4220 Intro to Electric Machinery and Drives Lab	1
EE 4227 Power Electronics	3
EE 4228 Power Electronics Lab	1
EE 4295 Intro to Propulsion Systems for Hybrid Electric Vehicles	3
EE 5223 Power System Protection	3
EE 5224 Power System Protection Lab	1
EE 5250 Distribution Engineering	3
EE 5230 Power Systems Operations	3
EE 4800 Special Topics in Electrical Engineering <i>must be power related and receive specific approval from the academic advisor</i>	variable
EE 5200 Advanced Methods in Power Systems	3
EE 5220 Transient Analysis Methods	3
EE 5240 Computer Modeling of Power Systems	3

Send the completed form to the Registrar's office no later than week 3 of the completion term.

Degree Services Use Only:

Credits Required	Credits Earned	Upper Division Credits	Residency
Courses used in Minor	Course Grades	Term Awarded	DS Staff