

Michigan Technological University
Certificate in Electric Power Engineering
Program Code CEPE, Academic Year 2026-2027
Department of Electrical and Computer Engineering
Minimum Credits Required: 13

Student Name and ID _____ Completion Term _____

Certificate Requirements

- Certificates are offered to undergraduate level, post-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

Highlight or circle the courses taken to complete certificate requirements and submit the completed form to the Registrar's Office

Required Courses: 7 Credits

- EE 4221 Power System Analysis I (3)
- EE 4222 Power System Analysis II (3)
- EE 4226 Power Engineering Lab (1)

Electives: Select 6 credits minimum

- 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 5230 Power Systems Operations (3)
- EE 5232 Power System Optimization (3)
- EE 5250 Distribution Engineering (3)
- EE 5263 Distributed Energy Resources (3)
- EE 4800 Special Topics in Electrical Engineering (variable credit; course must be power related and receive special approval from the academic advisor)
- EE 5200 Advanced Methods in Power Systems (3)
- EE 5220 Transient Analysis Methods (3)
- EE 5240 Computer Modeling of Power Systems (3)

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Credits	Course Grade	Residency	Upper Division	Double Counted Courses	Awarded Term
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