

Curriculum

A Master's degree through online learning requires thirty credits of coursework (ten courses); no thesis is required.

A minimum of twenty credits must be taken at Michigan Tech. The balance of coursework can be completed through other Michigan Tech departments (outside of Electrical and Computer Engineering) or transferred from other accredited institutions. (Consult with an advisor before you enroll.)

Current program offerings include:

EE 5200—Advanced Methods in Power Systems

EE 5220—Transient Analysis Methods

EE 5223—Power System Protection

EE 5230—Power System Operations

EE 5240—Computer Modeling of Power Systems

EE 5250—Distribution Engineering

EE 5260—Integrating Wind into Power Systems

EE 6210—Power System Dynamics and Stability

Up-to-date course offerings, enrollment instructions, and program information can be viewed at www.ece.mtu.edu/RemoteMSEE.



How to Apply

- enroll as a student at Michigan Tech
- register for the selected class
- pay your initial bill to confirm your registration

For complete details, please go to www.admin.mtu.edu/rgs/graduate/Registration.htm.



Costs and Technical/Other Requirements

- Tuition and fees for each three credit course are approximately \$1700 (2006-2007 academic year).
- The student version of MATLAB software is required and can be purchased through the Michigan Tech bookstore for approximately \$100. (For computer operating system requirements, see www.mathworks.com/support/sysreq/.)
- Enrollment in online learning courses requires an active e-mail account and an internet connection.

For More Information, Contact

Michigan Technological University
Department of Electrical and Computer Engineering
Houghton, Michigan 49931-1295 USA
Phone 906-487-2550
Fax 906-487-2949

www.ece.mtu.edu

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MichiganTech



Create the Future...
Change the World.

Online Learning in Electrical Engineering



Power Systems Curriculum

- *Master's of Science in Electrical Engineering*
- *Continuing Education for P. E. License Renewal*
- *Professional Development/Training*

MichiganTech

Create the Future...
Change the World.

A New Age of Learning

Since 1930, Michigan Technological University has offered a Master's of Science in Electrical Engineering. More than seventy-five years later, Michigan Tech is still among the world's leaders in providing quality electrical engineering education. While our on-campus program is well-established, we know that many potential graduate students are successfully working in the field already. Recognizing this, we are pleased to now offer courses in electrical engineering (power systems curriculum) through online learning.

Program Structure

Online learning in electrical engineering enables professionals to earn course credit and enjoy the benefits of on-campus learning from the convenience of their office or home. The program allows off-campus students to enroll in the same courses as on-campus students. Both follow the same syllabus and schedule, and with few exceptions, complete the same coursework. How does it work?

On-campus courses are videotaped, streamed, and made available after each class session via the internet to off-campus students. Interaction and discussion between faculty and students is facilitated by a class e-mail list, phone calls, and web-cam conferencing. Off-campus students submit assignments by FAX or by email.

The online learning program affords professionals flexibility in viewing class lectures and completing coursework, and provides them with the opportunity to earn a degree, gain additional training, or complete requirements for professional certification without interrupting their professional paths.



For more than a century, Michigan Tech has been supplying the world with highly qualified scientists and engineers whose credentials and innovations are unmatched.

Stature

The Master's program is accredited by the North Central Association of Colleges and Schools Commission on Institutions of Higher Education (NCA). The program enjoys strong ties with the power industry, and the online learning option provides opportunities for participants to interact with other successful professionals around the country.

Degree or Non-degree Enrollment

The online learning program allows participants to enroll as a Master's degree candidate or as a non-degree student. (Plans for a Certificate of Electrical Engineering in Power Systems are also underway.)

For those not immediately seeking a Master's degree, coursework can be completed towards:

- professional development or training
- continuing education requirements for professional engineering license renewals
- transfer of credit to another institution

The Faculty

The faculty in the Department of Electrical and Computer Engineering (ECE) are active in professional societies, have received numerous awards, are in editorial positions on national and international journals, and have authored and contributed to graduate and undergraduate textbooks.

Online learning courses are taught by the same panel of expert ECE faculty whose interests are focused in power systems.

They include:

Leonard Bohmann
Associate Professor
PhD, University of Wisconsin

Bruce Mork
Associate Professor
PhD, North Dakota State University

Dennis Wiitanen
Associate Chair of Electrical Engineering
PhD, University of Missouri-Rolla