ELECTRICAL ENGINEERING:
PROFESSIONAL, M.S.

This is a named option in the Electrical Engineering M.S. (http://
guide.wisc.edu/graduate/electrical-computer-engineering/electrical-
enGINEERING-M.S/#text)

The Electrical and Computer Engineering Department (ECE) offers
the Electrical Engineering M.S.-Professional named option program
for students looking for an advanced entry into industrial electrical
engineering.

It is designed to deepen the student’s technical knowledge and sharpen
their professional skills for a well-prepared entry into industry. The
program provides a practical focus through a course-only curriculum,
an accelerated and predictable 16-month completion time, and a
professional development component. Well-prepared students and UW–
Madison undergraduates may find it feasible to complete the program in
12 months.

The student, in consultation with an academic advisor, will choose
courses that align well academically and target their career interests.
When applying for the ECE M.S.-Professional program, students
are required to choose an area of emphasis: Computer Engineering,
Electromagnetic Fields and Waves, Solid State and Photonics, Energy and
Power Systems, or a specified curriculum path of their own design. The
coursework is customized based on the student’s technical interests and
is taught by faculty conducting cutting-edge research in their respective
fields. The goal of the student’s studies is to expand their knowledge
in new technologies, design methods, and analysis techniques. The
combined focus on technical skills and professional development will
prepare graduates to assume leadership positions in industry.

The focus of the Professional program differs from the traditional
research-based M.S. program. M.S.-Professional students do not
conduct independent research and prepare a thesis, but rather have
an accelerated course plan in a specialty area with a professional
development component, either via an internship/co-op, an
independent project, or through courses from Engineering Professional
Development. Overall, the M.S.-Professional program requires 30 credit
hours, including the professional development component. If you are
interested in research and advanced concept development, you are better
served pursuing a research-based M.S. program or a Ph.D. program.
If you want to complete your degree in 12–16 months and enter the
workforce, then the M.S.-Professional program is right for you.

M.S.-Professional students cannot be simultaneously enrolled in another
graduate program at UW–Madison while completing this program.

After completing the program, students will earn a diploma stating
"Master of Science in Electrical Engineering," and the transcript will
include the indication "Named Option: Professional."

For more information on this specific degree plan, please visit the ECE
website (https://advanceyourcareer.wisc.edu/degrees/electrical-
enGINEERING/).