

# MS IN ENGINEERING: ELECTRICAL & COMPUTER ENGINEERING-ADVANCED MOBILITY

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This program is available through Kettering University Online.

Kettering University is shaping the future of automotive engineering and advanced mobility with a groundbreaking online program: the MS Engineering-ECE-Advanced Mobility. The first of its kind, this cutting-edge advanced engineering degree equips graduates with the technical expertise to play an integral role in the development of electric and autonomous vehicles, mobile robotics and other dynamic systems. This program is specifically designed to meet growing demands within the automotive and advanced mobility industry, and it focuses on systems essential to the future of transportation, such as:

- **Integration of electrical and computer systems** for autonomous vehicles and other advanced mobility applications
- **Development of advanced mobility applications** for electric, hybrid and autonomous vehicles, transportation systems, artificial intelligence and robotics as it applies to mobility
- **Design of dynamic systems** that work to enhance and support autonomous functionality
- **Robotics** enhanced by artificial intelligence

Code	Title	Credit Hours
ECE-6103	Modeling of Dynamic Systems	3
ECE-6303	Digital Signal Processing Techniques for Automotive Engineering	3
ECE-6423	Machine Drives for Electric Vehicles	3
CE-6523	Artificial Intelligence for Autonomous Driving	3
EE-6263	Power Electronics for Vehicle Electrification	3
ECE-6323	Automotive Control Systems	3
CE-6423	Mobile Robotics	3
CE-6513	Introduction to Autonomous Driving	3
Management Elective		3
Capstone		3
<b>Total Credit Hours</b>		<b>30</b>