

# 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
CE-642	Mobile Robotics	4
CE-652	Artificial Intelligence for Autonomous Driving	4
ECE-610	Modeling of Dynamic Systems	4
ECE-630	Digital Signal Processing Techniques for Automotive Engineering	4
ECE-632	Automotive Control Systems	4
ECE-642	Machine Drives for Electric Vehicles	4
EE-626	Power Electronics for Vehicle Electrification	4
Management Elective		4
Free Electives		8
Total Credit Hours		40