

## **Embedded Systems**

## Master of Engineering: 30 Credits / 10 Courses

Students pursuing this option must successfully complete 4 core courses, at least 2 ENPM Embedded Systems electives, and up to 4 technical electives from the approved list of courses. Students should consult with their advisor prior to registering and have pre-approval for all technical electives. There is no research or thesis required for this degree.

Embedded Systems Core Courses (take four):			
	ENPM615 Embedded Systems*	(every fall)	
	ENPM818G Embedded Systems Hardware* [ENPM615]	(every spring)	
	ENPM818I Embedded Software Design and Optimization*	(Fall 2025, every 1.5 years)	
	ENPM818J (Real Time) Operating Systems*	(every spring)	

Embedded Systems Electives (take at least three)**:			
ENPM818K Embedded System and IoT Security*	(Spring 2025)		
<b>ENPM818L</b> Low Power Design for Embedded Systems*	(Fall 2025, varies)		
<b>ENPM818M</b> Introduction to Networking and Distributed Systems 5G/6G*	(every fall)		
<b>ENPM664</b> Embedded System Hacking and Security*	(every spring)		
ENPM818B Smart Grid*			
<b>ENPM818V</b> 5G Advanced Communication Networks and Devices, System Designs and Protocols*	(Spring 2026)		

Note: Any taken over the 3 required count as other technical electives

(every spring)
(every spring)
(TBD)
(Spring 2026, every 1.5 years)
(Spring 2027)
(TBD)
(every fall and spring)
(Fall 2026, every other fall)
(every fall)

NOTE: Any courses not listed above must be approved by the Program Manager for Academic Advising **PRIOR** to registration.

ENPM808 eligibility and application information can be found at <a href="https://mage.umd.edu/enpm808-form">https://mage.umd.edu/enpm808-form</a> Im

\*\*Important Note: Students admitted prior to Spring 2026, can follow the previous degree requirements, which required 2 Embedded Systems Electives and 4 Technical Electives

KEY		
Online Option *	(offering information)	
[Prerequisite course]	TBD - no next planned offering at this time	



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