**CYBERSECURITY, MASTER OF ENGINEERING (M.ENG.)**

**Non-thesis only:** 30 credits

All Professional Master of Engineering Programs consist of 10 courses/30 credits. All students are expected to complete a preliminary course plan for their intended degree program. Degree planning worksheets can be found here: https://advancedengineering.umd.edu/degree-planning-sheets

The student must complete 30 credits of approved coursework with an average grade of B. The coursework, which allows up to 12 credits at the 400-level, must be approved by the program's departmental faculty advisor.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>Required course:</td>
<td>3</td>
<td></td>
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<tr>
<td>ENPM691</td>
<td>Hacking of C programs and Unix Binaries (Programming in C for Cybersecurity Applications)</td>
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Choose three of the following core courses: 9 credits

ENPM685 Security Tools for Information Security
ENPM686 Information Assurance
ENPM693 Network Security
ENPM694 Networks and Protocols
ENPM695 Secure Operating Systems

Choose at least two of the following electives: 6 credits

ENPM687 Digital Forensics and Incidence Responses
ENPM697 Secure Software Testing and Construction
ENPM809 Special Topics in Engineering (ENPM809A - Applied Cryptography)
ENPM809 Special Topics in Engineering (ENPM809I - Embedded Systems Hacking and Security)
ENPM809 Special Topics in Engineering (ENPM809J - Cloud Security)
ENPM809 Special Topics in Engineering (ENPM809K - Fundamentals for Artificial Intelligence and Deep Learning Framework)
ENPM809 Special Topics in Engineering (ENPM809V - Bitcoin and Cryptocurrency Technologies)
ENPM808 Advanced Topics in Engineering (ENPM808O - Intrusion Detection: From Theory to Practice)

Choose up to four of the following electives: 12 credits

ENPM611 Software Engineering
ENPM631 TCP/IP Networking
ENPM632 Advanced TCP/IP Networking
ENPM696 Reverse Software Engineering
ENPM808 Advanced Topics in Engineering (ENPM808L - Analytics for Decision Support)
ENPM808 Advanced Topics in Engineering (ENPM808W - Data Science)
ENPM809 Special Topics in Engineering (ENPM809G - Network Data Science)
ENPM809 Special Topics in Engineering (ENPM809R - Software Defined Networking)

Total Credits 30