

# CLOUD ENGINEERING (ONLINE), MASTER OF ENGINEERING (M.ENG.)

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Non-thesis only: 30 credits required

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://mage.umd.edu/degree-planning-sheets> (<https://mage.umd.edu/degree-planning-sheets/>)

Course	Title	Credits
<b>Cloud Engineering Core (take two):</b>		<b>6</b>
ENPM665	Cloud Security	3
ENPM818N	(Cloud Computing)	3
<b>Cloud Engineering Additional Core (choose at least 4):</b>		<b>12</b>
Note: Any taken over the 4 required count as preapproved technical electives.		
ENPM818O	(Networks and Protocols for Cloud Engineering)	3
ENPM818P	(Linux System Administration)	3
ENPM818Q	(Python Programming)	3
ENPM818R	(Virtualization and Container Technologies)	3
ENPM818T	(Data Storage and Databases)	3
<b>Cloud Engineering Pre-Approved Technical Electives (choose 4):</b>		<b>12</b>
ENPM611	Software Engineering	3
ENPM613	Software Design & Implementation	3
ENPM631	TCP/IP Networking	3
ENPM657	Applied Cryptography	3
ENPM686	Information Assurance	3
ENPM693	Network Security	3
ENPM808	Advanced Topics in Engineering	3
ENPM818F	(Network Automation)	3
ENPM809F	(Internet of Things)	3
ENPM809K	(Fundamental Concepts of AI and Machine Learning, and Their Applications)	3
ENPM809X	(Data and Algorithms)	3
<b>Total Credits</b>		<b>30</b>