SYSTEMS ENGINEERING, POST-BACCALAUREATE CERTIFICATE (P.B.C.)

12 credits required

All Graduate Certificate in Engineering Programs consist of 4 courses/12 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
Systems Core Courses (Required):		9
ENSE621	Systems Engineering Concepts and Processes: A Model-Based Approach	
ENSE622	System Trade-off Analysis, Modeling, and Simulation	
ENSE623	System Development, Verification, and Validation	
Systems Technical Electives (Choose One):		3
ENSE624	Human Factors in Systems Engineering	
ENSE626	System Life Cycle Analysis and Risk Management	
Total Credits		**12**