

MATERIALS SCIENCE AND 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://advancedengineering.umd.edu/degree-planning-sheets> (<https://advancedengineering.umd.edu/degree-planning-sheets/>)

Course	Title	Credits
Required courses:		
ENMA461	Thermodynamics of Materials	3
ENMA650	Nanometer Structure of Materials	3
ENMA661	Kinetics of Reactions in Materials	3
One additional course approved by advisor		3
Total Credits		12