

# MATERIALS AND SCIENCE ENGINEERING A.S.: 413

Total Credits: 64  
Catalog Editions 12-13 through 15-16

Name:  Date:  ID #:

GENERAL EDUCATION: FOUNDATION COURSES	Course	Hours	Grade
English Foundation	EN 102/ <b>ENGL 102</b>	3	
Math Foundation	MA 181/ <b>MATH 181</b>	4	
Health Foundation HLHF (Choose HLTH 100 - HLTH 230)			

GENERAL EDUCATION: DISTRIBUTION COURSES	Course	Hours	Grade
Arts Distribution (ARTD)			
Humanities Distribution (HUMD)			
Behavioral & Social Sciences Distribution (BSSD) **		3	
Behavioral & Social Sciences Distribution (BSSD) **		3	
Natural Sciences Distribution with Lab (NSLD)	PH 262/ <b>PHYS 262</b>	4	
Natural Sciences Distribution without Lab (NSND) or Natural Sciences Distribution with Lab (NSLD)	PH 161/ <b>PHYS 161</b>	3	

PROGRAM REQUIREMENTS	Course	Hours	Grade
(only if needed for EN 102/ENGL102)	EN 101/ <b>ENGL 101</b>	(3)	
(only if needed for MA 181/MATH 181)	MA 180/ <b>MATH 165</b>	(4)	
	CH 135/ <b>CHEM 135</b>	4	
	CH 203/ <b>CHEM 203</b>	5	
	PH 263/ <b>PHYS 263</b>	4	
	ES 100/ <b>ENES 100</b>	3	
	ES 102/ <b>ENES 102</b>	3	
	ES 220/ <b>ENES 220</b>	3	
	EE 207/ <b>ENEE 207</b>	4	
	MA 182/ <b>MATH 182</b>	4	
	MA 280/ <b>MATH 280</b>	4	
	MA 282/ <b>MATH 282</b>	3	

Has student completed the Global Perspectives requirement?
 Yes
  No

Overall GPA of 2.0 is required to graduate

Total Credits:

Global Perspectives Course:

\*\* The two behavioral and social sciences courses MUST be in different disciplines

**ADVISING NOTES ON PAGE 2**

Last Modified: September 2015

Advising Worksheet Contact: [Anthony Solano](#)

See an advisor to submit an Application for Graduation the semester BEFORE you intend to graduate.

This UNOFFICIAL document is for planning purposes ONLY and completion does not guarantee graduation.

## **ADVISING NOTES FOR MATERIALS SCIENCE AND ENGINEERING**

- Most engineering students will start at MC missing one or more re-requisites for CHEM 131, CHEM 132, CHEM 135, ENGL 102, ENES 100, and MATH 181.
- The appropriate initial chemistry courses will be determined by the student's score on the Chemistry Placement exam, mathematics level, AP/IB credits, or transfer credits. Possible courses include CHEM 099, CHEM 131, CHEM 132, or CHEM 135. Either CHEM 132 or CHEM 135 satisfies the required chemistry credit for UMCP. CHEM 131-132 satisfies the required chemistry credit for UMBC, but CHEM 135 does not.
- The pre-requisite for ENGL 102 is ENGL 101 or ENGL 101A. English course placement is determined by the Accuplacer English/Reading Test.
- The co-requisite for ENES 100 is MATH 165 or higher.
- The pre-requisite for MATH 181 is MATH 165 (Precalculus). Mathematics initial course placement will be determined by the Accuplacer Math Test, AP/IB credit, or transfer credits.
- UMCP's ENMA 300 and ENMA 301, for which MC has no equivalents, must be completed after transfer or through MTAP.

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