



College of Engineering

Application for MINOR in MATERIALS SCIENCE AND ENGINEERING

Return completed form to ENG Undergraduate Records Office, 44 Cummington Street, Room 108.

Student Name: _____ BU I D# _____

Dept/Major: _____ Email Address: _____

Advisor: _____ Expected Date of Graduation: _____

Instructions: ENG students requesting to complete a Minor in Materials Science and Engineering should complete this form, obtain the appropriate approvals (signatures) below, and submit this form to the Undergraduate Records Office, 44 Cummington Street, Room 108 for processing. Please read the requirements for the minor indicated on the reverse of this form. Students applying for the Minor must have a declared major on record.

*Note: Only 8 credit hours may be applied to both the major and the minor degree credit requirements. Please indicate with an * any courses that you want to apply toward both your major and minor*

PROPOSED COURSES FOR MINOR	CREDITS	*	Prerequisites	OFFICE USE ONLY	
				Grade	Honor Pts
1. ENG ME 306 – Material Science	4.0		CAS PY 212		
2. ENG ME 465 – Materials Processing	4.0		ENG EK156, ME305, ME306, ME304 or EK424		
3.	4.0				
4.	4.0				
5.	4.0				
Total credits for Minor: 20.0				GPA for Minor:	



Student Signature: _____ Date: _____

Faculty Advisor Signature: _____ Date: _____

MINOR APPROVAL

Approve Deny

 ENG Authorization: _____ DATE _____
 Signature of Minor Coordinator of the Division of Materials Science and Engineering

Office Use Only

Hegis code

Records Office Verification

Date posted on UIS

Requirements for a Minor in Materials Science and Engineering

1. A minor in Materials Science and Engineering can be earned through completion of 20 credits selected from the list below including the required core comprising of ENG ME 306 and ENG ME 465.

REQUIRED

ENG ME 306 Materials Science
ENG ME 465 Materials Processing

ELECTIVES

ENG ME 305 Mechanics of Materials
ENG EC 471 Physics of Semiconductor Devices
EMG MS/ME 505 Thermodynamics and Statistical Mechanics of Materials
ENG MS/ME 503 Kinetic Processes in Materials
ENG MS/EC 577 Electrical, Optical and Magnetic Properties of Materials
ENG MS/ME 504 Polymers and Soft Materials
ENG MS/ME 582 Mechanical Behavior of Materials
ENG MS/ME/ CAS PY/CH 508 Computational Methods in Materials Science
ENG MS/BE/ME 523 Mechanics of Biomaterials
ENG MS/ME 545 Electrochemistry of Fuel Cells and Batteries
ENG MS/ME 530 Introduction to Micro and Nanomechanics of Solids
ENG MS/ME 555 MEMS Fabrication and Materials
ENG MS/ME 534 Materials Technology for Microelectronics
CAS PY 451 Quantum Physics
CAS PY 543 Introduction to Solid State Physics

Note: Students cannot earn credit for both:

ENG MS/ME 505 Thermodynamics and Statistical Mechanics **AND**
CAS PY 410 Statistical Thermodynamics

2. No more than 8 credits may be used to satisfy the student's major degree credit requirements.
3. Students are expected to obtain the necessary background (prerequisites or equivalents) to complete their chosen minor program.
4. Students must have a declared major on record in order to apply for the Minor in Materials Science Engineering.
5. The grade point average (GPA) of the courses (20 credits) used for the minor must be 2.0 or greater for the minor to be awarded.
6. Applications for the Minor in Materials Science and Engineering must be approved by the Minor Coordinator of the Division of Materials Science and Engineering.