

# Worksheet for Materials Science & Engineering Minor



TEXAS A&M UNIVERSITY

Department of Materials  
Science and Engineering

Student Name: \_\_\_\_\_ Date: \_\_\_\_\_

UIN: \_\_\_\_\_ Major: \_\_\_\_\_

Email: \_\_\_\_\_

To enroll in the Materials Science & Engineering minor, a student must first complete the prerequisite introductory materials course. Subsequently, a minimum of 15 semester credit hours selected from the lists below must be completed to earn the minor.

## Prerequisite Course

Semester Taken	Grade Received	Course
		MSEN 222 Materials Science
		OR
		*

\* Alternative Introductory Materials courses acceptable with faculty advisor approval.

## Core MSEN Courses (9 Credits)

Select one of the following MSEN Core Courses

Semester Taken	Grade Received	Course
		MSEN 210 Thermodynamics of Materials
		MSEN 260 Structure of Materials

Select two courses from MSEN 200 – 499

Semester Taken	Grade Received	Course
		MSEN <sup>(1)</sup>
		MSEN <sup>(1)</sup>

## Technical Elective MSEN Courses (6 Credits)

Select two of the following.

Semester Taken	Grade Received	Course
		MSEN <sup>(3,4)</sup>
		MSEN <sup>(3,4)</sup>
		BAEN 354 Engineering Properties of Biological Materials <sup>2</sup>
		BAEN 427 Engineering Aspects of Packaging <sup>2</sup>
		BMEN 344 Biological Responses to Medical Devices <sup>2</sup>
		BMEN 482 Polymeric Biomaterials <sup>2</sup>

Semester Taken	Grade Received	Course
		BMEN 483 Polymeric Biomaterial Synthesis <sup>2</sup>
		CHEM 466 Polymer Chemistry <sup>2</sup>
		CHEM 468 Materials Chemistry of Inorganic Materials <sup>2</sup>
		CHEN 451 Introduction to Polymer Engineering <sup>2</sup>
		CHEN 475 Microelectronics Process Engineering <sup>2</sup>
		CVEN 342 Materials of Construction <sup>2</sup>
		CVEN 343 Portland Cement Concrete Materials for Civil Engineers <sup>2</sup>
		CVEN 417 Bituminous Materials <sup>2</sup>
		ECEN 370 Electronic Properties of Materials <sup>2</sup>
		ECEN 440 Thin Film Technology and Device Application <sup>2</sup>
		MEEN 360 Materials and Manufacturing Selection in Design <sup>2</sup>
		MEEN 455 Engineering with Plastic <sup>2</sup>
		MEEN 458 Processing and Characterization of Polymers <sup>2</sup>
		MEEN 460 Corrosion Engineering <sup>2</sup>
		MEEN 471 Elements of Composite Materials <sup>2</sup>
		MEEN 475 Materials in Design <sup>2</sup>
		MMET 207 Metallic Materials <sup>2</sup>
		MMET 313 Industrial Welding Processes <sup>2</sup>
		NUEN 465 Nuclear Materials Engineering <sup>2</sup>
		PHYS 416 Physics of the Solid State <sup>2</sup>

**Note:**

- 1 Except MSEN 201, MSEN 205, MSEN 222/MEEN 222, MSEN 281, MSEN 301, MSEN 302, MSEN 380, MSEN 400, MSEN 401, MSEN 402.
- 2 Up to 2 of these electives (6 credits total) could consist of "Materials-focused course(s)" within the student's home major.
- 3 Except MSEN 201, MSEN 205, MSEN 222/MEEN 222, MSEN 281, MSEN 301, MSEN 302, MSEN 380, MSEN 400, MSEN 401, MSEN 402, MSEN 485, MSEN 491.
- 4 Maximum of 3 credits of MSEN 485 or MSEN 491
- 5 Students must make a grade of C or better in all courses.
- 6 Achieve an overall GPR of 2.5 in approved minor program coursework.
- 7 This form will be verified by the Department of Materials Science and Engineering, approval given upon verification of requirements by the Program Coordinator or Academic Advisor to earn the certificate.

*For the Materials Science & Engineering Department:*

Verified by: \_\_\_\_\_ Date: \_\_\_\_\_