

### School for Engineering of Matter, Transport and Energy

## Why?

Engineering or science majors who choose to minor in materials will enhance their education and increase their job opportunities by learning how to design, process, and select the best materials for any engineering application. Materials are important for all industries, including telecommunications, computers, transportation, aerospace, energy, manufacturing, construction, health care, and more.

## Course Requirements

MSE 250 Structure and Properties of Materials (3)

MSE 355 Structure and Defects (3)

two MSE courses at the 300 level or higher (6)

one materials-related lab from the following list:

MSE 356 Structure, Properties and Defects Lab (1)

MSE 421 Physical Metallurgy Lab (1)

MSE 451 Introduction to Materials Characterization Lab (1)

one materials-related course from the following list:

any MSE course at the 300 level or higher (3)

BME 318 Biomaterials (4)

CEE 353 Civil Engineering Materials (3)

CHE 458 Semiconductor Material Processing (3)

CHM 471 Solid-State Chemistry (3)

EEE 352 Properties of Electronic Materials (4)

EEE 436 Fundamentals of Solid-State Devices (3)

PHY 481 Materials Physics I (3)

Students need sophomore status and a minimum 2.75 ASU plus transfer GPA to enroll in the minor in materials science and engineering and a 2.50 GPA in all courses in the minor to receive the minor. Students adding the minor will also need to complete MAT 265 (270), MAT 242 (342 or 343), and CHM 114 or CHM 113/116, as they are prerequisites to required courses.

Interested students should consult with a SEMTE advisor to verify eligibility and to review all courses required for the minor. To schedule an advising appointment, please contact the SEMTE advising office at (480) 965-2335 or [semte@asu.edu](mailto:semte@asu.edu).

Students interested in the materials minor should also consult with their major advisor to ensure recognition of the minor and to have their minor added to their DARS.

**Note:** Certain major and minor combinations may be deemed inappropriate either by the college or department of the major or minor. Courses taken as part of a minor may not count toward both the major degree and the minor. Please contact the department for more information.

## Contact

School for Engineering of Matter, Transport and Energy

Advising Center

Telephone: 480.965.2335

Email: [semte@asu.edu](mailto:semte@asu.edu)