

College of Engineering

Department of Mechanical and Materials Engineering

Proposal for Minor Program

Minor in Engineering Science

Contact: _____
Dr. Cesar Levy Date

Chairperson: _____
Dr. George Dulikravich Date

Chairperson, Curriculum Committee: _____
Dr. Sabri Tosunoglu Date

Dean of the College of Engineering: _____
Dr. Vish Prasad Date

Approved by:

University Curriculum Committee: _____
Date

Faculty Senate Chairperson: _____
Date

Academic Affairs V.P.: _____
Date

Minor in Engineering Science

Prescribed courses and other requirements:

For admission to the minor, students need:

- 1) To be fully admitted to their major
- 2) To have a GPA ≥ 2.0

Students are expected to meet all prerequisites for the required courses. Mechanical Engineering students are not eligible for the minor.

The minor requires 16 credit hours consisting of the following courses:

EGN 3311 Statics (3)
EGN 3321 Dynamics (3)
EGN 3365 Materials in Engineering (3)
EGN 3343 Thermodynamics I (3)
EMA 3702 Mechanics and Materials Science (3)
EML 3500 Mechanical Design I (3)

Show Evidence that Library and/or Laboratory Resources are Available to Accommodate the Proposed Minor:

This minor program will not require any additional library resources. No lab course is required for this minor.

Type of Students Expected to be Attracted to this Program:

This program will attract students majoring in Materials, Physics, Computer Engineering, Industrial Engineering, and Civil Engineering who would like to pursue a career related to Engineering Science.

Briefly Describe the Requirements of the Related Major Program:

The minor program is being proposed under the umbrella of the Bachelor of Science in Mechanical Engineering. All the courses for the proposed minor are part of the required courses for the Mechanical Engineering major.

Justification:

This minor will enable FIU graduates with degrees, other than Mechanical Engineering, to gain a fundamental understanding in Engineering Science. Engineering Science is the foundation of most engineering undertakings and is needed by many different industries. This minor will enhance the working skills of a graduate in a career related to an Engineering undertaking.