MD/MS in Bioengineering

Admission Requirements
Applicants are considered on an individual basis. In addition to the Graduate College minimum requirements, applicants must meet the following program requirements:

- **Baccalaureate Field** Physical sciences, engineering, computer science, mathematics, biology, or medicine. Students must have completed math through Calculus 1 (MATH 180), Calculus II (MATH 181), Calculus III (MATH 210), Differential Equations (MATH 220), and Applied Linear Algebra (MATH 310) prior to entering the program.

- For MD students applying to the MS as part of the joint MD/MS in Bioengineering, academic progress in the College of Medicine's M1 curriculum is reviewed and approved by the College of Medicine's Senior Associate Dean for Educational Affairs or Dean's designee.

- **Tests Required** GRE waived.

- **Letters of Recommendation** Three required.

- **Personal Statement** Required.

Degree Requirements
In addition to the Graduate College minimum requirements, students must meet the following program requirements:

- Students in the program must satisfy requirements of the Masters of Science in Bioengineering, a 36-semester-hour program, and satisfy four years of the required Medical Degree program of study.

- For the MS in Bioengineering, students must adhere to all relevant Graduate College policies, including minimum GPA requirements and limits on transfer credit.

- **Minimum Semester Hours Required**
  - **College of Engineering:** MS-BIOE 36. 
  - **College of Medicine All Campuses:** Specific courses vary by campus.

    - M1 Year—34 to 36 credit hours
    - M2 Year—44 to 48 credit hours
    - M3 Year—48 credit hours
    - M4 Year—32 to 38 credit hours, with opportunity for shared hours

- A maximum of 8 hours of credit of MS-BIOE courses may be applied as a research elective in M4 elective requirement. With proper planning and prior approval by the MS-BIOE advisor, joint degree students may take a nonclinical medical elective during their M4 year and receive independent study credit toward the MS degree. Per Graduate College policy, 600-level courses cannot be applied to the MS-BIOE. No more than 8 total hours will consist of shared course work.

- **Course Work for MS in Bioengineering** At least 28 hours (with thesis) or 36 hours (course work only). At least 12 hours must be at the 500-level, excluding BIOE 595 and BIOE 598. Limited credit hours in BIOE 596 are allowed upon departmental approval.

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### Required Courses

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<tr>
<th>Course</th>
<th>Description</th>
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<tbody>
<tr>
<td>BIOE 595</td>
<td>Seminar on Bioengineering (1 hour)</td>
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