B.S./M.S. IN BIOMEDICAL ENGINEERING - PREMED CONCENTRATION

• Juniors from any of the four BME Concentrations who have maintained at least a 3.0 CGPA have the option to apply for admission to the combined BS-MS in Biomedical Engineering program.

• Those who are accepted into this accelerated program must maintain at least a 3.0 CGPA and a minimum of a 3.0 GPA for the final 30 credit hours to meet the requirements of the Graduate School.

• The participants complete BME 705 in lieu of BME 402/BME 403.

• Up to 6 credit hours of Technical electives earned during the fourth year can be counted toward the 30 credit hours required for the MS degree. If their schedule allows, students may be able to complete an additional 3 credits of graduate classes during their fourth year.

• Students must be registered for a minimum of 12 undergraduate credit hours per semester in their fourth year.

• Students can register for a maximum of 6 graduate credit hours in each semester of their fourth year.

• If a student needs to withdraw from the BS/MS BME program then all the requirements for the specific BS BME Concentration must be completed for graduation with the BS BME degree.

Curriculum Requirements

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Math and Science Courses

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### Suggested Plan of Study - Premed Concentration

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# B.S./M.S. in Biomedical Engineering - Premed Concentration

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Students must complete a minimum of 1 PS cognate and 1 HA cognate to be selected from the list of available cognates (http://www.miami.edu/index.php/registrar/cognates/). Each cognate should be a minimum of 3 courses (9 credit hours). Students in the Premed Concentration are highly encouraged to choose cognates that include PSY 110 and SOC 101.

Advanced Bioscience Elective is to be chosen from BIL 250, BIL 255, BIL 268, CHM 202, or BMB 402. Students should verify admission requirements of their medical school of interest to verify Adv. Bioscience requirements, e.g. organic chemistry II, biochemistry, or both.

Technical or Science Elective Lab is selected from BME 506, BME 507, BME 566 or BME 395 or from a science lab complementing the Adv Bioscience Elective (e.g., CHM or BIL lab).

Technical Elective Lab is selected from BME 506, BME 507, BME 566 or BME 395.

All Technical Electives are taken as graduate courses. They are graduate-level courses (600 level and above) chosen from the BME course offerings with the approval of the advisor. Non-BME courses need to be approved by the advisor and the chairperson.

The undergraduate elective is any undergraduate level course with a number of credit hours sufficient to ensure that the student is enrolled for a total of 12 undergraduate credit hours during each semester of the senior year. The undergraduate elective can be any undergraduate class, but students are encouraged to select an engineering or science course.

† Students planning on taking the MCAT should take BMB 401 as their first Adv. Bioscience Elective.