USF BS in Biomedical Engineering (B.S.B.E.)  
Fall 2019 Catalog, 126 hours

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### Term & Sequence

- **Fall** 14 hrs
- **Spring** 15 hrs
- **Fall** 17 hrs
- **Spring** 16 hrs
- **Summer** 9 hrs
- **Fall** 15 hrs
- **Spring** 14 hrs
- **Fall** 14 hrs
- **Spring** 12 hrs

### Pre-Major Status

- **CHM 2045** General Chemistry I (3 hrs F, S, Su)
  - **CHM 2046** General Chemistry II (3 hrs F, S, Su)
    - **BME 4100** Biomedical Engineering (3 hrs F, S)
      - **BSC 2010L** Biology I Lab (1 hr F, S, Su)
      - **CHM 2210L** Organic Chemistry I Lab (3 hrs F, S, Su)
      - **CHM 2210** Organic Chemistry I (3 hrs F, S, Su)
      - **EGN 3365** Materials Engineering I (3 hrs F, S, Su)
      - **EGN 3321** Dynamics (3 hrs F, S, Su)
  - **EGR 3311** Statics (3 hrs F, S, Su)
  - **PHY 2048L** General Physics I Lab (1 hr F, S, Su)
  - **PHY 2049L** General Physics II Lab (1 hr F, S, Su)
  - **PHY 2049** General Physics II (3 hrs F, S, Su)
    - **CHM 2210L** Organic Chemistry I Lab (2 hrs F, S, Su)
    - **EGN 3343** Thermodynamics I (3 hrs F, S, Su)
    - **EGN 3343** Thermodynamics I (3 hrs F, S, Su)
  - **MAC 2282 or MAC 2312** Calculus II (4 hrs F, S, Su)
  - **MAC 2283 or MAC 2313** Calculus III (4 hrs F, S, Su)
    - **MAE 3433** Mod Anly Eng or MAP 2302 (3 hrs F, S, Su)
    - **EGN 3433** Probability & Stats for Eng (3 hrs F, S, Su)
    - **MAE 3053** Computer Programming (3 hrs F, S, Su)
    - **MAE 3053** Computer Programming (3 hrs F, S, Su)
  - **EGR 3443** Probability & Stats for Eng (Info & Data Lit) (3 hrs F, S, Su)
  - **ENC 1101** Composition I (3 hrs F, S, Su)
  - **ENC 1102** Composition II (3 hrs F, S, Su)

### Major Status

- **BME 4100** Biomedical Engineering (3 hrs F, S, Su)
  - **BSC 2010L** Biology I Lab (1 hr F, S, Su)
  - **CHM 2210L** Organic Chemistry I Lab (3 hrs F, S, Su)
  - **CHM 2210** Organic Chemistry I (3 hrs F, S, Su)
  - **EGN 3365** Materials Engineering I (3 hrs F, S, Su)
  - **EGN 3321** Dynamics (3 hrs F, S, Su)
  - **EGR 3311** Statics (3 hrs F, S, Su)
  - **PHY 2048L** General Physics I Lab (1 hr F, S, Su)
  - **PHY 2049L** General Physics II Lab (1 hr F, S, Su)
  - **PHY 2048** General Physics I (3 hrs F, S, Su)
  - **EGN 3343** Thermodynamics I (3 hrs F, S, Su)
  - **MAC 2282 or MAC 2312** Calculus II (4 hrs F, S, Su)
  - **MAC 2283 or MAC 2313** Calculus III (4 hrs F, S, Su)
    - **MAE 3433** Mod Anly Eng or MAP 2302 (3 hrs F, S, Su)
    - **EGN 3433** Probability & Stats for Eng (Info & Data Lit) (3 hrs F, S, Su)
    - **MAE 3053** Computer Programming (3 hrs F, S, Su)
    - **MAE 3053** Computer Programming (3 hrs F, S, Su)
  - **EGR 3443** Probability & Stats for Eng (Info & Data Lit) (3 hrs F, S, Su)
  - **ENC 1101** Composition I (3 hrs F, S, Su)
  - **ENC 1102** Composition II (3 hrs F, S, Su)

### Admission

- **FL** Fall = Fall (tentative)
  - **S** Spring = Spring (tentative)
  - **Su** Summer = Summer (tentative)

### General Education Notes

- Course meets Enhanced General Education Requirement.
- Students must meet the Civic Literacy requirement with credit for AMH 2020, POS 2041 or passing the Civics Literacy test.

### Course Notes

- Max 2 attempts allowed. Min grade is a B.
- High priority courses
- Pre-Med Students may apply CHM 2211 & BSC 2011 for STEM elect.

### Major Notes

- Unless otherwise stated, min Grade C in degree applicable math, science, engineering, and major specialty courses.
- It's recommended to complete 1-2 terms of research or internship in which 1 credit can be used for the Professional elective. See the BME advisor for a list of BME electives.

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**Updated 4/2/2019**

**NOTE:** This flowchart is provided as a guide; the catalog is the definitive source of requirements.