### BACHELOR OF SCIENCE IN BIOMEDICAL ENGINEERING

**Biosensing & Instrumentation Specialization (BME - BI)**

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<th>Student:</th>
<th>Date:</th>
<th>Advisor:</th>
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#### Catalogue

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<td>EE 004 - Linear Circuit Analysis II</td>
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<td>EE 101 - Digital Control with Embedded Sys</td>
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**Minimum Total Credits Required for Degree: 134**

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1. Foundational Writing and Information Literacy (FWIL) is a University requirement. Students must take either ENGS 001 or HCOL 085 (only for students enrolled in the Honors College). Students transferring from the College of Arts and Sciences can use a TAP class to fulfill this requirement.

2. Required General Education (GenEd) Electives: 9 credits of approved GenEd electives.

3. Diversity courses are a University requirement. Students must take one three-credit D1 course and a second three-credit D1 or D2 course.

4. BME Biosensing & Instrumentation Electives: CHEM 141, CHEM 142, any 100-level or higher EE course, any 200-level BME course, CE, ENGR, ME, CS, MATH, STAT and life sciences courses with approval of BME advisor and EBE chair. At least 6 hours must be at the 200-level or above engineering courses.

5. BME 001 & ENGR 050 are degree requirements designed for first-year students. Internal and external transfer students may substitute 100-level or higher engineering (BME, CE, EE, ENGR, ME) credits for these requirements.

6. BME BI Technical Electives: Any 200-level BME course, BIOL 212, BIOL 231*, CS 256, CS 202*, CS 352*, EE 280*, EE 210, EE 213, EE 225*, EE 228*, EE 275, EE 279, EXAMS 240, HLTH 125, MATH 200*, MATH 202*, MATH 203*, MATH 204*, ME 201, ME 208, ME 209, ME 285, ME 312*, MLRS 140, MLRS 175, MPBP 331*, PATH 101, RNS 215, RNS 250, STAT 200 & STAT 211. Other courses may be pre-approved by BME advisor and EBE chair. At least 9 credits must be at the 200-level or above. Note that 300-level courses (*) require instructor permission for undergraduate enrollment.

N.B. The University's Quantitative Reasoning (QR) requirement may be fulfilled by taking an engineering or technical course approved for SU or an SU-approved GenEd Elective.