

SJSU B.S. BIOMEDICAL ENGINEERING 4-YEAR STUDY PLAN - Fall 2017

21-Feb-17

| Fall | | | |
|-----------------|---------------------------------|--|--------------|
| | Course Number | Course Title | Units |
| Year I | Math 30 | Calculus I | 3 |
| | Chem 1A | General Chemistry | 5 |
| | Engl 1A | Composition I | 3 |
| | Engr 10 | Intro to Engr | 3 |
| | Total | | 14 |
| Year II | Biol 30 | Principles of Biology I | 4 |
| | Math 32 | Calculus III | 3 |
| | AMS 1A | American Civilization | 6 |
| | BME 25 | Intro to BME Design | 3 |
| | Total | | 16 |
| Year III | BME 115 | Foundations of BME | 4 |
| | Phys 51 | Electricity/Magnetism | 4 |
| | BME 177 | Physiology for Engineers | 3 |
| | Chem 9 | Organic Chemistry Lab | 1 |
| | BME 130 | Computational Methods in BME | 3 |
| | Total | | 15 |
| Year IV | BME 198A | Senior Project I | 2 |
| | Engr 195A | Global/Social Issues | 1 |
| | BME 147 | Quantitative & Statistical Methods for BME | 3 |
| | BME 175 | Biomaterials | 3 |
| | EE 98 | Circuit Analysis | 3 |
| | One course from Major Electives | | 3 |
| | Total | | 15 |

| Spring | | | |
|---------------|------------------------|---|--------------|
| | Course Number | Course Title | Units |
| | Math 31 | Calculus II | 4 |
| | Chem 1B | General Chemistry | 5 |
| | Phys 50 | Mechanics | 4 |
| | Engl 1B | Composition II | 3 |
| | Total | | 16 |
| | Chem 8 | Organic Chemistry | 3 |
| | Comm 20 | Oral Communication | 3 |
| | AMS 1B | American Civilization | 6 |
| | Math 133A/ Math 123 | Ordinary Diff Eq, or Diff Eq and Linear Algebra | 3 |
| | Total | | 15 |
| | MatE 25 | Intro to Mat Engr | 3 |
| | Engr 100W | Engineering Reports | 3 |
| | BME 174 | Biomedical Regulatory Requirements | 3 |
| | BME 117 | Biotransport Phenomena | 3 |
| | CE 99 | Introductory Statics | 2 |
| | Total | | 14 |
| | BME 198B | Senior Project II | 2 |
| | Engr 195B | Global/Social Issues | 1 |
| | BME 178 | Biomedical Product Realization | 3 |
| | BME 167 | Biomechanics | 3 |
| | | One course from Major Electives | 3 |
| | | One course from Major Electives | 3 |
| | Total | | 15 |

Important Notes

(1) Lower Division Core (LD core): Math 30*, Math 31*, Math 32*, Phys 50*, Phys 51, Chem 1A*, Chem 1B*, Biol 30*, Engr 10*, BME 25*, CE 99, MatE 25, and EE 98. Those with an asterisk (*) must be completed with a GPA of ≥ 2.0 , & no individual course grade $< C-$ before enrolling in Junior Core classes. The entire Lower Division Core, must be completed, also with a GPA of ≥ 2.0 , & no individual course grade $<$ than C- before enrolling in Senior Core classes. Co-enrollment of EE 98 with BME 198A is permitted.

(2) Junior Core: Math 133A or Math 123, BME 115, BME 117, BME 130, BME 174, BME 177, and Engr 100W. Must be completed with a GPA ≥ 2.0 , and no individual course grade $< C-$ before enrolling in Senior core classes.

(3) Senior Core: BME 147, BME 167, BME 175, BME 178, BME 198A, and BME 198B. The entire Senior Core must be completed with a GPA ≥ 2.0 and no individual course grade $< C-$.