

BACHELOR OF SCIENCE DEGREE IN BIOMEDICAL ENGINEERING
STUDENTS ENTERING WITH COLLEGE ALGEBRA

2016-17

Recommended Course of Study

Freshman Year

| <u>Fall</u> | | | <u>Spring</u> | | |
|--------------------|---------------------|----------|----------------------|-----------------------|----|
| MATH 1100 | College Algebra | 3 | MATH 1650 | Pre-Calculus | 5 |
| XXXX | Communication Core | 3 | CHEM 1410 | General Chemistry | 3 |
| BMEN 1300 | Discover BMEN | 3 | CHEM 1430 | General Chemistry Lab | 1 |
| HIST 2610 | History I | 3 | TECM 2700 | Technical Writing | 3 |
| PSCI 1040 | American Government | <u>3</u> | PSCI 1050 | American Government | 3 |
| | | 15 | | | 15 |

SUMMER

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|-----------|------------|---|-----------|-------------|---|
| MATH 1710 | Calculus I | 4 | MATH 1720 | Calculus II | 3 |
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Sophomore Year

| <u>Fall</u> | | | <u>Spring</u> | | |
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| XXXX | Elective | 3 | CSCE 1030 | Computer Science I | 4 |
| EENG 2710 | Digital Logic | 3 | EENG 2610 | Circuit Analysis | 3 |
| PHYS 1710 | Mechanics | 3 | XXXX | Elective | 3 |
| PHYS 1730 | Laboratory in Mechanics | 1 | PHYS 2220 | Electricity & Magnetism | 3 |
| ENGR 2210 | Biomed DAQ Practices | <u>2</u> | PHYS 2240 | Lab in WM, Elec, Mag & Optics | 1 |
| | | 12 | | | <u>14</u> |

SUMMER

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| BMEN 2320 | Biomedical Instrumentation I | 4 |
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Junior Year

| <u>Fall</u> | | | <u>Spring</u> | | |
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| MATH 2700 | Linear Algebra | 3 | BMEN 3312 | Introduction to Biomechanics | <u>3</u> |
| BMEN 3311 | Biomedical Signal Analysis | 3 | MATH3680 | Statistics and Probability | 3 |
| BMEN3310 | Human Systems | 3 | BMEN 3321 | Biomaterials | 3 |
| XXXX | Elective | 3 | MATH 2730 | Multivariate Calculus | 3 |
| XXXX | Language Philosophy and Culture | 3 | XXXX | Elective | 3 |
| | | 15 | | | 15 |

SUMMER

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| MATH 3410 | Differential Equations | 3 |
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Senior Year

| <u>Fall</u> | | | <u>Spring</u> | | |
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| BMEN 4310 | Biomedical Modeling | 3 | HIST 2620 | History II | 3 |
| XXXX | Elective | 3 | BMEN 4321 | Advanced Topic in BMEN | 3 |
| BMEN 4212 | Senior Design I | <u>1</u> | BMEN 4222 | Senior Design II | 3 |
| BMEN 4311 | Advanced Topic in BMEN | 3 | XXXX | Visual and Performing Arts | <u>3</u> |
| XXXX | Social and Behavioral Sciences | 3 | XXXX | Elective | 3 |
| | | 13 | | | 15 |

University Core Courses in Green; Required courses in black; Prescribed electives in red; Free Electives in blue