Bachelor of Science in Engineering in Biomedical Engineering 2014-2015

| | Dacricio | 1 of Science in Engineering in Diomedical Engineering 2014-2015 | 1 |
|---------------------|--------------------|--|---------|
| | ı | Date Started: | |
| <u>(S</u> | Grade/ Semester | Second Major: | Credits |
| ii. | de | | þ |
| ed | ra | Honors Program: PRE-MED COURSE SEQUENCE | Ä |
| FRESH (34 Credits) | Grade/ Semest | Expected Graduation: | |
| | | CHEM 1127Q - General Chemistry | 4 |
| | | MATH 1131Q - Calculus I | 4 |
| | | CSE 1010 - Introduction to Computing for Engineers | 3 |
| | | ENGL 1010 - Seminar in Academic Writing or ENGL 1011 - Seminar in Writing Through Lit | 4 |
| | | ENGR 1000 - Orientation to Engineering | 1/16 |
| | | V V | • |
| | | CHEM 1128Q - General Chemistry | 4 |
| | | MATH 1132Q - Calculus II | 4 |
| | | BIOL 1107 - Principles of Biology | 4 |
| | | ENGR 1166 - Foundations of Engineering, BME Section | 3 |
| | | Content Area 2 Sociology | 3/18 |
| | | PHYS 1501Q - Physics for Engineers I | 4 |
| (35 Credits) | | MATH 2110Q - Multivariable Calculus | 4 |
| | | BME 2101 – Introduction to Biomedical Engineering | 3 |
| | | CE 2110 - Applied Mechanics I | 3 |
| | | CHEM 2443 - Organic Chemistry | 3/17 |
| | | | S/II |
| (3) | | PHYS 1502Q - Physics for Engineers II | 4 |
| SOPH | | ECE 2001W - Electrical Circuits | 4 |
| 0 | | MSE 2101 - Materials Science & Engineering I | 3 |
| S | | MATH 2410Q - Elementary Differential Equations | 3 |
| | | BME 3120 - LabView Basics for Engineers | 1 |
| | | CHEM 2444 - Organic Chemistry | 3/18 |
| | | BME 3600W - Biomechanics | 4 |
| UNIOR (36 Credits) | | PNB 2264 - Human Physiology and Anatomy | 4 |
| | | ECE 3101 - Signals & Systems | 3 |
| | | MCB 2410 Genetics or MCB 2400 Human Genetics; can also take MCB 2210 here & take Genetics in Sen Yr | 3 |
| | | BME 3500 - Biomedical Engineering Measurements | 4/18 |
| | | | • |
| | | BME 3700 - Biomaterials | 4 |
| | | Engineering Elective | 3 |
| Z | | PSYC 1100 General Psychology 1 (take even if have AP PSYC credit) | 3 |
| <u> 1</u> | | STAT 3025Q - Statistical Methods (Calculus Level) | 3 |
| | | CHEM 2446 - Organic Chemistry Lab (1 credit lab ok; don't need 3 credit lab) | 1 |
| | | MCB 2000 Intro to Biochemistry (should take here for MCAT purposes) | 4/18 |
| edits) | | BME 4900 - Biomedical Engineering Design I | 3 |
| | | Content Area 1 (Not in PHIL) (Recommended: ENGL 2407 Short Stories) | 3 |
| | | Biomedical Engineering Elective | 3 |
| | | Biomedical Engineering Elective | 3 |
| Tre | | Engineering Elective | 3 |
| SENIOR (37 Credits) | | PHIL 1104 - Philosophy & Ethics | 3/18 |
| | | BME 4910 - Biomedical Engineering Design II | 3 |
| | | Biomedical Engineering Elective | 3 |
| | | | 3 |
| Z [T] | | Engineering Elective | |
| S | | Content Area 2 (Social Sciences; not same subject as other Content Area 2) Anthropology | 3 |
| | | Content Area 4 (Diversity) | 3 |
| | | Content Area 4 (International) | 3/18 |
| | | Minimum # of credits to graduate: 128 | |
| | | ***MCB 2210 or MCB 2410/ MCB 2400 (can take in senior year if take another course during Int or Sum) | 3 |