

**B.S. Biomedical Engineering
for Students entering the program in Fall 2020**

| First Year | Fall | | | | Spring | | | |
|--------------|------------------------------------|--|----------------|---------|-----------|--------------|---------|-------|
| | Course # | Title | Credits | Grade | Course # | Title | Credits | Grade |
| | MAT 161 ² | Calculus I | 4 | | MAT 162 | Calculus II | 4 | |
| | CHE 103 | Gen. Chem I | 3 | | CHE 104 | Gen. Chem II | 3 | |
| | BME 110 | Intro. BME | 3 | | PHY 170 | Physics I | 4 | |
| | WRT 120 or WRT 123 ¹ | Effective Writing I or w/ Supp. Workshop | 3 - 4 | | CRL 103 | Chem I lab | 1 | |
| Gen. Ed. | FYE | 4 | | BME 120 | Intro CAE | 3 | | |
| Total | | | 17 – 18 | | | 15 | | |

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|--------------|---------|--------------|-----------|--|---------|-----------------------|---|--|
| Second Year | MAT 261 | Calculus III | 4 | | MAT 315 | Diff. Eq. & lin. Alg. | 3 | |
| | BIO 110 | Gen. Biology | 4 | | BIO 265 | Hum. A&P | 4 | |
| | PHY 180 | Physics II | 4 | | ECO 112 | Economics II | 3 | |
| | BME 220 | Statics | 3 | | WRT 2xx | Effective Writing II | 3 | |
| | CRL 104 | Chem II lab | 1 | | BME 230 | Dynamics | 3 | |
| Total | | | 16 | | | 16 | | |

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|--------------|---------|----------------------|-----------|--|---------|---------------------------|---|--|
| Third Year | BME 310 | Engr. Thermo. | 3 | | BME 325 | BME Lab II | 2 | |
| | BME 315 | BME Lab I | 2 | | BME 345 | Biotransport Phenomena | 4 | |
| | MAT 125 | Intro. Stat. & Prob. | 3 | | BME 355 | Bioinstrumentation | 3 | |
| | BME 335 | Biomaterials | 3 | | BME 365 | Biomechanics | 3 | |
| | PHI 180 | Intro. Ethics | 3 | | Gen. Ed | Hum | 3 | |
| | CHE 230 | Intro. Organic Chem | 3 | | | | | |
| Total | | | 17 | | | 15 | | |

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|--------------|---------|--------------------|-----------|--|---------|------------------|---|--|
| Fourth Year | BME 410 | Sen. Design I | 3 | | BME 420 | Sen. Design II | 1 | |
| | BME XXX | Tech. Elect I | 3 | | BME XXX | Tech. Elect II | 3 | |
| | BME 401 | Sen. Seminar I | 1 | | BME XXX | Tech. Elect III | 3 | |
| | BME 450 | Regulatory and GMP | 3 | | BME 402 | Sen. Seminar II | 1 | |
| | Gen. Ed | Art | 3 | | Gen. Ed | Diverse Comm. | 3 | |
| | Gen. Ed | Interdisciplinary | 3 | | Gen. Ed | Behav. & Soc. | 3 | |
| Total | | | 16 | | | 14 | | |
| Total | | | | | | 126 – 127 | | |

Notes: ¹Enrollment in WRT 120 (3 credits) or WRT 123 (4 credits) is determined by the results of WRITE SURVEY.

²Remedial Math (i.e. MAT Q20 and/or MAT Q30) or MAT 131 are required prerequisites for MAT 161, if the score earned on the Math Placement Exam (MPE) is below "5." Students transferring in the equivalent of WRT 120 are exempt from taking the WRITE SURVEY. Students transferring in the equivalent of MAT 131 (and beyond) are exempt from completing the MPE. The need for WRT 123, MAT Q20, MAT Q30, and MAT 131 increase the total credits requirement beyond 125. Please consult with the director of or an advisor in the program for course recommendations and planning.