

Department of Chemical, Biological, and Bioengineering  
 Bachelor of Science in Bioengineering (General)  
 Major Code: BIEN

Curriculum Guide Effective 2020-2021

| Course                                | CR        | Course                                  | CR        |
|---------------------------------------|-----------|---|-----------|
| <b>Freshman Year: First Semester</b>  |           | <b>Freshman Year: Second Semester</b>   |           |
| GEEN 111                              | 1         | ENGL 101                                | 3         |
| ENGL 100                              | 3         | BIOL 101                                | 4         |
| CHEM 106                              | 3         | PHYS 241                                | 3         |
| CHEM 116                              | 1         | PHYS 251                                | 1         |
| MATH 131                              | 4         | MATH 132                                | 4         |
| GEEN 100                              | 2         | GEEN 121                                | 1         |
| <b>Semester Total</b>                 | <b>14</b> | <b>Semester Total</b>                   | <b>16</b> |
| <b>Sophomore Year: First Semester</b> |           | <b>Sophomore Year: Second Semester</b>  |           |
| Social / Behavioral Science           | 3         | Humanities / Fine Arts                  | 3         |
| BMEN 220                              | 3         | MATH 341                                | 3         |
| MATH 231                              | 4         | CHEN 218                                | 3         |
| MEEN 104                              | 2         | CHEM 221                                | 3         |
| CHEM 107                              | 3         | CHEM 223                                | 1         |
| CHEM 117                              | 1         | GEEN 161                                | 2         |
| <b>Semester Total</b>                 | <b>16</b> | <b>Semester Total</b>                   | <b>15</b> |
| <b>Junior Year: First Semester</b>    |           | <b>Junior Year: Second Semester</b>     |           |
| BMEN 310                              | 3         | BMEN 320                                | 3         |
| CHEN 300                              | 3         | BMEN 325                                | 2         |
| MEEN 230                              | 3         | ECEN 340                                | 3         |
| BIOL 301                              | 4         | BMEN 311                                | 3         |
| PHYS 242                              | 3         | BMEN 321                                | 3         |
| PHYS 252                              | 1         | BMEN 322                                | 3         |
| <b>Semester Total</b>                 | <b>17</b> | <b>Semester Total</b>                   | <b>17</b> |
| <b>Senior Year: First Semester</b>    |           | <b>Senior Year: Second Semester</b>     |           |
| Global Awareness                      | 3         | African, American Culture / History     | 3         |
| BMEN 480                              | 3         | BMEN 481                                | 3         |
| BMEN 411                              | 3         | Advance Engineering Elective            | 3         |
| CHEN 312                              | 4         | Advance Science or Engineering Elective | 3         |
| <b>Semester Total</b>                 | <b>13</b> | <b>Semester Total</b>                   | <b>12</b> |

**Total Credit Hours: 120**