

# BME Degree Requirement for students entering 2008 (Energy Systems)

|                 |                               |                                                  |   |                 |                 |
|-----------------|-------------------------------|--------------------------------------------------|---|-----------------|-----------------|
| <b>1st Year</b> | CHM 123 & 123L                | General Chemistry                                | 4 |                 |                 |
|                 | EGR 103                       | Engineering Innovation I                         | 2 |                 |                 |
|                 | ENG 101/102                   | English Composition I, II<br>(or ENG 114 or 198) | 6 |                 |                 |
|                 | HST ____                      | History (HST 103 or 198)                         | 3 |                 |                 |
|                 | MTH 168/169                   | Analytic Geometry & Calculus I, II               | 8 |                 |                 |
|                 | MEE 101                       | Introduction to Mechanical Engineering           | 0 |                 |                 |
|                 | MEE 104L                      | Computer Graphics I                              | 1 |                 |                 |
|                 | PHY 206                       | General Physics I                                | 3 |                 |                 |
|                 | PHL 103                       | Introduction to Philosophy                       | 3 |                 |                 |
| REL 103         | Introduction to Religion      | <u>3</u>                                         |   |                 |                 |
|                 |                               | <b>33</b>                                        |   |                 |                 |
| <b>2nd Year</b> |                               |                                                  |   | <u>1st Term</u> | <u>2nd term</u> |
|                 | EGR 201                       | Engineering Mechanics                            | 3 |                 |                 |
|                 | EGR 202                       | Engineering Thermodynamics                       | 3 |                 |                 |
|                 | MTH 218                       | Analytic Geometry & Calculus III                 | 4 |                 |                 |
|                 | PHY 207                       | General Physics II                               | 3 |                 |                 |
|                 | _____                         | General Education Requirement                    | 3 |                 |                 |
|                 | MEE 227L                      | Computer Graphics II                             | 1 |                 |                 |
|                 | MEE 200                       | Professional Development Seminar                 | 0 |                 | 0               |
|                 | CMM 11_                       | Fundamentals of Oral Communication <sup>1</sup>  |   |                 | 1               |
|                 | MEE 308                       | Fluid Mechanics                                  |   |                 | 3               |
|                 | EGM 303                       | Mechanics II                                     |   |                 | 3               |
|                 | EGR 203                       | Electrical and Electronic Circuits               |   |                 | 3               |
|                 | ECE 201L                      | Circuit Analysis Laboratory                      |   |                 | 1               |
|                 | MTH 219                       | Applied Differential Equations                   |   |                 | 3               |
| _____           | General Education Requirement |                                                  |   | <u>3</u>        |                 |
|                 |                               | <b>17</b>                                        |   | <b>17</b>       |                 |
| <b>3rd Year</b> | PHY 208 or 299                | Physics Elective                                 | 3 |                 |                 |
|                 | CMM 11_                       | Fundamentals of Oral Communication <sup>1</sup>  | 1 |                 |                 |
|                 | MEE 314                       | Computational Methods                            | 3 |                 |                 |
|                 | EGM 202                       | Dynamics                                         | 3 |                 |                 |
|                 | MEE 312 & 312L                | Engineering Materials I and Lab                  | 4 |                 |                 |
|                 | MEE 410 /410L                 | Transfer & Thermo Fluids Lab                     | 4 |                 |                 |
|                 | MEE 415                       | Professional Development Seminar I               | 0 |                 | 0               |
|                 | MEE 341                       | Engineering Experimentation                      |   |                 | 3               |
|                 | MEE 321                       | Theory of Machines                               |   |                 | 3               |
|                 | MEE 344/478or578              | Manufacturing Processes                          |   |                 | 3               |
|                 | CMM 11_                       | Fundamentals of Oral Communication <sup>1</sup>  |   |                 | 1               |
| _____           | General Education Requirement |                                                  |   | 3               |                 |
| _____           | Open Elective                 |                                                  |   | <u>3</u>        |                 |
|                 |                               | <b>18</b>                                        |   | <b>16</b>       |                 |
| <b>4th Year</b> | MEE 427/431L                  | Mechanical Design/Multidisciplinary Des I        | 4 |                 |                 |
|                 | MEE 439                       | Dynamic Systems and Controls                     | 4 |                 |                 |
|                 | MEE 433                       | Project Management and Innovation                | 1 |                 |                 |
|                 | _____                         | Ethics Elective (PHL 316 or REL 369)             | 3 |                 |                 |
|                 | _____                         | Mechanical Engineering Elective                  | 3 |                 |                 |
|                 | MEE 415/416                   | Professional Development Seminar I/II            | 0 |                 | 1               |
|                 | MEE 432L                      | Multidisciplinary Design II                      |   |                 | 3               |
|                 | MEE 460                       | Engineering Analysis                             |   |                 | 3               |
|                 | _____                         | Mechanical Engineering Elective                  |   |                 | 3               |
|                 | _____                         | Open Elective                                    |   |                 | 3               |
| _____           | General Education Requirement |                                                  |   | <u>3</u>        |                 |
|                 |                               | <b>15</b>                                        |   | <b>16</b>       |                 |

<sup>1</sup> CMM 110, 111 or 112, and 113 are required.