

# Bachelor of Science in Mechanical Engineering

Milligan University

Catalog Year  
2021-2022

This document is designed as a guide for students planning their course selection and is only a suggested schedule. Actual course selections should be made with the advice and consent of the academic advisor. While accurately portraying the information contained in the Catalog, this form is not considered a legal substitute for that document. Students should become familiar with the Catalog in effect at the time in which they enter Milligan.

| FALL SEMESTER 1 |                             |             |
|-----------------|-----------------------------|-------------|
| COURSE          | TITLE                       | CREDITS     |
| HUMN 101        | Ancient & Medieval Cultures | 4.0         |
| MATH 211        | Calculus 1                  | 4.0         |
| CHEM 170        | General Chemistry           | 4.0         |
| FENG 101        | Introduction to Engineering | 1.0         |
| MLGN 100        | Intro to College & Service  | 0.5         |
| BIBL 123        | Old Testament Survey        | 3.0         |
|                 | <b>TOTAL CREDITS</b>        | <b>16.5</b> |

| SPRING SEMESTER 1 |                                     |             |
|-------------------|-------------------------------------|-------------|
| COURSE            | TITLE                               | CREDITS     |
| HUMN 102          | Renaissance & Early Modern Cultures | 4.0         |
| MATH 212          | Calculus 2                          | 4.0         |
| FENG 102          | Engineering Fundamentals            | 3.0         |
| BIBL 124          | New Testament Survey                | 3.0         |
| COMP 111          | Rhetorical Composition              | 3.0         |
|                   | 0                                   | 0.0         |
|                   | <b>TOTAL CREDITS</b>                | <b>17.0</b> |

| FALL SEMESTER 2 |                             |             |
|-----------------|-----------------------------|-------------|
| COURSE          | TITLE                       | CREDITS     |
| MATH 303        | Multivariable Calculus      | 4.0         |
| MENG 201        | Statics                     | 3.0         |
| EENG 201        | Applied Electrical Theory 1 | 3.0         |
| PHYS 203        | General Physics-Calculus 1  | 4.0         |
| COMP 211        | Inquiring Minds             | 3.0         |
|                 | 0                           | 0.0         |
|                 | <b>TOTAL CREDITS</b>        | <b>17.0</b> |

| SPRING SEMESTER 2 |                            |             |
|-------------------|----------------------------|-------------|
| COURSE            | TITLE                      | CREDITS     |
| MATH 309          | Differential Equations     | 3.0         |
| MATH 307          | Linear Algebra             | 3.0         |
| MENG 202          | Dynamics                   | 3.0         |
| MENG 211          | Mechanics of Materials     | 3.0         |
| PHYS 204          | General Physics-Calculus 2 | 4.0         |
| MLGN 200          | Intro to Calling & Career  | 0.5         |
|                   | <b>TOTAL CREDITS</b>       | <b>16.5</b> |

| FALL SEMESTER 3 |                                   |             |
|-----------------|-----------------------------------|-------------|
| COURSE          | TITLE                             | CREDITS     |
| FENG 301        | Applied Math&Programming for Engr | 3.0         |
| MENG 371        | Thermodynamics 1                  | 3.0         |
| MENG 361        | Fluid Mechanics                   | 3.0         |
| MENG 331        | Machine Design                    | 3.0         |
| HUMN 201        | 18 & 19 Century Cultures          | 4.0         |
|                 | 0                                 | 0.0         |
|                 | <b>TOTAL CREDITS</b>              | <b>16.0</b> |

| SPRING SEMESTER 3   |                                   |             |
|---------------------|-----------------------------------|-------------|
| COURSE              | TITLE                             | CREDITS     |
| MENG 372            | Thermodynamics 2                  | 3.0         |
| MENG 311            | Materials and Design              | 3.0         |
| MENG 421 & EENG 461 | Systems and Controls              | 3.0         |
| MENG 351            | Heat Transfer                     | 3.0         |
| EXSC 101            | Fitness for Life                  | 1.0         |
| HUMN 202            | Cultures of the 20 & 21 Centuries | 4.0         |
|                     | <b>TOTAL CREDITS</b>              | <b>17.0</b> |

| FALL SEMESTER 4 |                                |             |
|-----------------|--------------------------------|-------------|
| COURSE          | TITLE                          | CREDITS     |
| MENG 471        | Applied Thermal-Fluid Sciences | 4.0         |
| MENG 481        | Mechanical Design Project 1    | 3.0         |
| MENG 431        | Vibrations and Dynamic Systems | 3.0         |
| GER             | Social Learning                | 3.0         |
| COMM 102        | Speech Communication           | 3.0         |
|                 | <b>TOTAL CREDITS</b>           | <b>16.0</b> |

| SPRING SEMESTER 4 |                             |             |
|-------------------|-----------------------------|-------------|
| COURSE            | TITLE                       | CREDITS     |
| MENG 432          | Applied Machine Design      | 4.0         |
| MENG 411          | Manufacturing Processes     | 3.0         |
| MENG 482          | Mechanical Design Project 2 | 3.0         |
| BIBL 471          | Christ and Culture          | 3.0         |
| GER               | Ethnic Studies              | 3.0         |
|                   | <b>TOTAL CREDITS</b>        | <b>16.0</b> |

MINIMUM 128 NEEDED FOR GRAD **132.0**

GER = General Education Requirements