



## BACHELOR of SCIENCE in MECHANICAL ENGINEERING (#543)

School of Engineering & Applied Sciences  
Ogden College of Science and Engineering  
Western Kentucky University

The suggested program of study shown below should be used in consultation with your advisor(s). Every student will finish with a unique plan of his/her own depending on the electives selected.

### SAMPLE – Finish in Four Plan

| FIRST YEAR                                      |           |   |           |
|---|-----------|---|-----------|
| Fall Semester                                   |           | Spring Semester                                       |           |
| ME176 – Mechanical Engineering Freshman Design  | 1         | ME 180 – Freshmen Design II                           | 3         |
| MATH 136 – Calculus I (F-QR)                    | 4         | MATH 137 – Calculus II                                | 4         |
| CHEM 116/106 OR CHEM 120/121 (E-NS, LS)         | 4         | PHYS 255/256 – Physics I ( <i>with a Lab</i> ) (E-NS) | 5         |
| ENG 100 Intro to College Writing (F-W1)         | 3         | EM 222 –Statics                                       | 3         |
| COMM 145 Fundamentals of Public Speaking (F-OC) | 3         |   |           |
| <b>TOTAL CREDIT HOURS</b>                       | <b>15</b> | <b>TOTAL CREDIT HOURS</b>                             | <b>15</b> |

| SECOND YEAR  |           |   |             |
|--|-----------|---|-------------|
| Fall Semester  |           | Spring Semester                         |             |
| ME 240/241 – Materials and Methods of Manufacturing and Lab  | 4         | ME 200 – Sophomore Design               | 3           |
| MATH 237 – Multivariable Calculus                            | 4         | MATH 331 – Differential Equations       | 3           |
| PHYS 265/266 – Physics II ( <i>with a Lab</i> )              | 5         | EM 303 – Mechanics of Deformable Solids | 3           |
| HIST 101 World History I OR HIST 102 World History II (F-SB) | 3         | EE 210 – Circuits and Networks I        | 3.5         |
|  |           | ENG 200 Intro to Literature (F-AH)      | 3           |
|  |           |   |             |
| <b>TOTAL CREDIT HOURS</b>                                    | <b>16</b> | <b>TOTAL CREDIT HOURS</b>               | <b>15.5</b> |

| THIRD YEAR                           |   |  |   |
|--------------------------------------|---|--|---|
| Fall Semester                        |   | Spring Semester                                    |   |
| ME 220 – Thermo I                    | 3 | ME 300 – Junior Design                             | 2 |
| ME 347 – Mechanics Lab               | 1 | EM 313 – Dynamics                                  | 3 |
| ME 310 – Engineering Instrumentation | 3 | ME 330/332 – Fluid Mechanics ( <i>with a Lab</i> ) | 4 |
| ME 344 – Mechanical Design           | 3 | Social & Behavioral Studies (E-SB)                 | 3 |
| Math/Science Elective                | 3 | ME Technical Elective                              | 3 |
| Arts and Humanities (E-AH)           | 3 |  |   |

|                           |           |                           |           |
|---------------------------|-----------|---------------------------|-----------|
| <b>TOTAL CREDIT HOURS</b> | <b>16</b> | <b>TOTAL CREDIT HOURS</b> | <b>15</b> |
|---------------------------|-----------|---------------------------|-----------|

| <b>FOURTH YEAR</b>  |           |   |           |
|---|-----------|---|-----------|
| <b>Fall Semester</b>  |           | <b>Spring Semester</b>                                |           |
| ME 325/333 – Heat Transfer and Lab                                  | 4         | ME Technical Elective                                 | 3         |
| ME Technical Elective   | 3         | ME Technical Elective                                 | 3         |
| Connections: Social and Cultural (K-SC)                             | 3         | ME 412: Senior Project or ENGR 491: Senior Project II | 3         |
| ME 400: Mechanical Engineering Design or ENGR 490: Senior Project I | 2         | Connections: Local to Global Course (K-LG)            | 3         |
| ENG 300 Writing in the Disciplines (F-W2)                           | 3         | Connections: Systems (K-SY)                           | 3         |
| <b>TOTAL CREDIT HOURS</b>   | <b>15</b> | <b>TOTAL CREDIT HOURS</b>                             | <b>15</b> |

Total Credit Hours: 122.5

For more details and courses offered in the Colonnade General Education program visit the [website](#).

**World Language Requirement:** Language Proficiency of novice-high before completing 60 credit hours is required (or completion of 2nd level of a language). Two credits (or equivalent) of a single world language in High School satisfies this WKU requirement.

Information regarding ME Technical Electives, Pre-Major Requirements, and Math/Science electives can be found in the undergraduate catalog.

**PLEASE NOTE:** Prerequisites, Course Numbers, and Course Titles are subject to change.  
Consult your advisor each semester.

**For more Information:**

**School of Engineering and Applied Sciences**

**Website:** [www.wku.edu/seas](http://www.wku.edu/seas)

**Phone:** 270-745-3251

**Email:** [seas@wku.edu](mailto:seas@wku.edu)

**Course Descriptions:** <http://www.wku.edu/undergraduatecatalog/>