**Marietta College & West Virginia University**

**Bachelor of Science in Physics leading to**

**Bachelor of Science in Mechanical Engineering (WVU-BS)**

**Suggested Plan of Study**

|  |  |  |  |
| --- | --- | --- | --- |
| **Marietta College** | **Hours** | **WVU Equivalents** | **Hours** |
| Year One, 1st Semester |  |  |  |
| WRIT 110 | 3 | ENGL 101 | 3 |
| MATH 125 | 4 | MATH 155 | 4 |
|  PHYS 221 | 4 |  PHYS 111 | 4 |
| CSCI 115 | 3 | CS 101 | 3 |
| FYE COURSE | 1 | ORIN 1TC | 1 |
| TOTAL | 15 | TOTAL | 15 |
| Year One, 2nd Semester |  |  |  |
| PHYS 222 | 4 | PHYS 112 | 4 |
| MATH 224 | 4 | MATH 156 | 4 |
| GEN ED “P” COURSE | 3 | ELECTIVE  | 3 |
| FYE COURSE | 3 | ORIN 1TC | 3 |
| GEN ED “M” COURSE | 3 | ELECTIVE | 3 |
| TOTAL | 17 | TOTAL | 17 |
|  |  |  |  |
| WVU SUMMER ONLINE | ENGR 102 | 3 |
|  |  |  |  |
| Year Two, 1st Semester |  |  |  |
| PHYS 321 | 3 | PHYS 3TC | 3 |
| PHYS 331 | 2 | PHYS 341 | 2 |
| MATH 235 | 4 | MATH 2TC | 4 |
| EGRG 311 | 3 | MAE 241 | 3 |
| ECON 211”K” | 3 | ECON 201 | 3 |
| TOTAL | 15 | TOTAL | 15 |
| Year Two, 2nd Semester |  |  |  |
| MATH 302 | 3 | MATH 3TC | 3 |
| PHYS 332 | 2 | PHYS 341 | 2 |
| CSCI 210 | 3 | CS 2TC | 3 |
| EGRG 312 | 3 | MAE 243 | 3 |
| PHYS 325 | 3 | PHYS 3TC | 3 |
| ECON 212 “K” | 3 | ECON 202 | 3 |
| PHYS 391 | 1 | PHYS 3TC | 1 |
| TOTAL | 18 | TOTAL | 18 |
|  |  |  |  |
| Year Three, 1st Semester |  |  |  |
| EGRG 321 | 3 | MAE 331 | 3 |
| PHYS 342 | 3 | PHYS 3TC | 3 |
| PHYS 491 | 2 | PHYS 4TC | 2 |
| CHEM 131+133 | 4 | CHEM 115 + CHEM 115L | 4 |
| GEN ED “R” COURSE | 3 | ELECTIVE | 3 |
| GEN ED “W” COURSE 1 | 3 | ENGL 1TC | 3 |
| TOTAL | 18 | TOTAL | 18 |
| Year Three, 2nd Semester |  |  |  |
| EGRG 351 | 3 | MAE 320 | 3 |
| PHYS 492 | 2 | PHYS 4TC | 2 |
| CHEM 132+134 | 4 | CHEM 116 + CHEM 116L | 4 |
| GEN ED “R” COURSE | 3 | ELECTIVE | 3 |
| GEN ED “L” COURSE | 3 | ELECTIVE | 3 |
| GEN ED “X” COURSE | 3 | ELECTIVE | 3 |
| TOTAL | 18 | TOTAL | 18 |
|  |  |  |  |
|  |  |  |  |
| **WEST VIRGINIA UNIVERSITY** |
|  |
| Summer Session(s) |
| ENGL 102 | 3 | MATH 251 | 4 |
|  |
| Year Four, 1st Semester |  | Year Four, 2nd Semester |  |
| MATH 261 | 4 | MAE 316 | 3 |
| MAE 211 | 3 | MAE 321 | 3 |
| MAE 242 | 3 | MAE 322 | 1 |
| MAE 244 | 1 | MAE 331 | 3 |
| MAE 343 | 3 | MAE 342 | 3 |
| EE 221+222 | 4 | IENG 302+303 | 3 |
| TOTAL | 17 | TOTAL | 16 |
| Year Five, 1st Semester |  | Year Five, 2nd Semester |  |
| MAE 454 | 3 | MAE 411 | 3 |
| MAE 456 | 3 | MAE 423 | 3 |
| MAE 471 | 3 | MAE 460 | 3 |
| TECHNICAL ELECTIVE | 3 | TECHNICAL ELECTIVE | 3 |
| TECHNICAL ELECTIVE | 3 | TECHNICAL ELECTIVE | 3 |
| TOTAL | 15 | TOTAL | 15 |

Students wishing to transfer into the Mechanical Engineering program must have a GPA of at least 2.25 in all college course work attempted, and a C or better in all MATH courses.

As Marietta students in this plan of study will transfer with more than 29 credit hours, they will be exempted from the ENGR 199 requirement.

ENGR 101 will be met by an upper division PHYS course, per the Statler College transfer policy.

The identified General Education courses at Marietta will be applied as listed towards completion of the General Education Foundations requirements as listed. GEF 4 will be met by the ECON 201 equivalent.

The above transfer articulation agreement of credit between West Virginia University and Marietta College, is approved by the Dean, or Dean’s designee, and effective the date of the signature.

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 Print Name Signature Date

David A. Wyrick Ph. D., P.E., P.E.M Associate Dean for Academic Affairs

Benjamin M. Statler College of Engineering and Mineral Resources at West Virginia University