**Marietta College & West Virginia University**

**Bachelor of Science in Mathematics leading to**

**Bachelor of Science in Industrial 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 (COUNTS as GEN ED “Q”) | 4 | MATH 155 | 4 |
| CHEM 131+133 (Gen Ed B/C) | 4 | CHEM 115 + 115L | 4 |
| ECON 211 (micro) Gen Ed Y | 3 | ECON 201 | 3 |
| EGRG 101 (counts as Gen Ed “K”) | 3 | ENGR 1TC | 3 |
| TOTAL | 17 | TOTAL | 17 |
| Year One, 2nd Semester |  |  |  |
| COMM 101  | 3 | COMM 100+102 | 3 |
| MATH 224 | 4 | MATH 156 | 4 |
| CHEM 132+134 (Gen Ed B/C) | 4 | CHEM 116 + 116L | 4 |
| ECON 212 (macro) Gen Ed Y | 3 | ECON 202 | 3 |
| GEN ED “M/X” COURSE | 3 | Elective | 3 |
| TOTAL | 17 | TOTAL | 17 |
|  |  |  |  |
| WVU SUMMER ONLINE | ENGR 102 | 3 |
|  |  |  |  |
| Year Two, 1st Semester |  |  |  |
| PHYS 221/L | 4 | PHYS 111 | 4 |
| MATH 235 | 4 | MATH 2TC | 4 |
| EGRG 311 (statics) | 3 | MAE 241 | 3 |
| GEN ED “P” COURSE | 3 | ELECTIVE | 3 |
| EGRG 325 (engineering econ) | 3 | IENG 3TC  | 3 |
| TOTAL | 18 | TOTAL | 17 |
| Year Two, 2nd Semester |  |  |  |
| MATH 302 | 3 | MATH 3TC | 3 |
| MATH 304 (linear algebra) | 3 | MATH 441 | 3 |
| ENGY 331/L (electrical eng) | 4 | EE 3TC | 4 |
| PHYS 222 | 4 | PHYS 112 | 4 |
| MATH 301 (foundations of MATH) | 3 | MATH 3TC | 3 |
| TOTAL | 17 | TOTAL | 17 |
| Year Three, 1st Semester |  |  |  |
| MATH 257 (stats) | 3 | STAT 215/IENG 213 | 3 |
| GEN ED “R” | 3 | ELECTIVE | 4 |
| PHYS 331 | 4 | PHYS 3TC | 3 |
| GEN ED “R” COURSE | 3 | ELECTIVE | 3 |
| GEN ED “W” COURSE WRIT 307 | 3 | ENGL 305 | 3 |
| TOTAL | 16 | TOTAL | 16 |
| Year Three, 2nd Semester |  |  |  |
| MATH 402/seminar (Gen Ed “W”) | 2 | MATH 4TC | 3 |
| MATH Elective (2) | 6 | MATH ELECTIVE | 6 |
| EGRG 321 | 3 | MAE 331 | 3 |
| GEN ED “M” COURSE | 3 | ELECTIVE | 3 |
| GEN ED “L” COURSE | 3 | ELECTIVE | 3 |
| TOTAL | 17 | TOTAL | 17 |
|  |  |  |  |
|  |  |  |  |
| **WEST VIRGINIA UNIVERSITY** |
|  |
| Summer Session(s) |
| MAE 243 | 3 | MATH 251 | 4 |
|  |
| Year Four, 1st Semester |  | Year Four, 2nd Semester |  |
| IENG 200 | 3 | IENG 350 | 3 |
| IENG 220 | 1 | EE 221 | 3 |
| ENGL 102 | 3 | EE 222 | 1 |
| IENG 314 | 3 | IENG 360 | 3 |
| IENG 301 | 1 | IENG 302 + 303 | 4 |
| IENG 305 | 2 | IENG 331 | 3 |
| MATH 261 | 4 |  |  |
| TOTAL | 17 | TOTAL | 17 |
|  |  |  |  |
| Summer Session | IENG 377 | 3 |
|  |  |  |  |
| Year Five, 1st Semester |  | Year Five, 2nd Semester |  |
| IENG 316 | 3 | IENG 472 | 3 |
| IENG 343 | 3 | IENG 446 | 3 |
| IENG 445 | 3 | IENG TECHNICAL ELECTIVE | 3 |
| IENG 471 | 3 | IENG TECHNICAL ELECTIVE | 3 |
| IENG TECHNICAL ELECTIVE | 3 | TECHNICAL ELECTIVE | 3 |
| TECHNICAL ELECTIVE |  |  |  |
| TOTAL | 18 | TOTAL | 15 |

Students wishing to transfer into the Industrial 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