

Lord Fairfax Community College & West Virginia University

Associate of Science (Engineering) leading to Dual Bachelors of Science in Mechanical and Aerospace Engineering (WVU-BS) Suggested Plan of Study

| Lord Fairfax | Cr Hrs | WVU Equivalent | Cr Hrs |
|--|--------|----------------|--------|
| Year One, 1st Semester | | | |
| ENG 111 | 3 | ENGL 101 | 3 |
| IT/CS ELECTIVE | 3 | ELECTIVE | 3 |
| MTH 173 | 5 | MATH 155 | 5 |
| SDV 100 OR 101 | 1 | ORIN 1TC | 1 |
| CHM 111 | 4 | CHEM 115 | 4 |
| EGR 120 | 2 | ENGR 101 | 2 |
| TOTAL | 18 | | 18 |
| Year One, 2nd Semester | | | |
| ENG 112 | 3 | ENGL 102 | 3 |
| HUM / FINE ARTS ELECTIVE | 3 | GEF 7 | 3 |
| MTH 174 | 5 | MATH 156 | 5 |
| EGR 126 | 3 | ENGR 102 | 3 |
| CST 110 | 3 | CSAD 270 | 3 |
| TOTAL | 17 | | 17 |
| Year Two, 1st Semester | | | |
| ECO 201 | 3 | ECON 202 | 3 |
| STEM ELECTIVE | 3 | ELECTIVE | 3 |
| PED/HLT ELECTIVE | 1 | PE 1TC | 1 |
| EGR 140 | 3 | MAE 241 | 3 |
| MTH 277 | 4 | MATH 251 | 4 |
| PHY 241 | 4 | PHYS 111 | 4 |
| TOTAL | 18 | | 18 |
| Year Two, 2nd Semester | | | |
| ENG LIT ELECTIVE | 3 | GEF 6 | 3 |
| ECO 202 | 3 | ECON 201 | 3 |
| PHY 242 | 4 | PHYS 112 | 4 |
| EGR 245 | 3 | MAE 242 | 3 |
| EGR 246 | 3 | MAE 243 | 3 |
| TOTAL | 16 | | 16 |

| <u>WEST VIRGINIA UNIVERSITY</u> | | | |
|--|-------|--|----|
| Year Three, 1st Semester | | Year Three, 2nd Semester | |
| MATH 261 | 4 | MAE 244 | 1 |
| MAE 211 | 3 | MAE 316 | 3 |
| MAE 320 | 3 | MAE 322 | 1 |
| MAE 331 | 3 | MAE 336 | 3 |
| MAE 343 | 3 | MAE 342 | 3 |
| MAE 215 | 3 | MAE 345 | 3 |
| | | TECHNICAL ELECTIVE | 3 |
| TOTAL | 19 | TOTAL | 17 |
| Year Four, 1st Semester | | Year Four, 2nd Semester | |
| MAE 335 | 3 | MAE 365 | 3 |
| MAE 426 | 3 | TECHNICAL ELECTIVE | 3 |
| MAE 434 | 2 | MAE 423 | 3 |
| MAE 456 | 3 | MAE 460 | 3 |
| EE 221 + 222 | 4 | IENG 302 + 303 | 3 |
| TECHNICAL ELECTIVE | 2-3 | | |
| TOTAL | 17-18 | TOTAL | 15 |
| Year Five, 1st Semester | | Year Five, 2nd Semester | |
| MAE 454 | 3 | MAE 475 | 3 |
| MAE 471 | 3 | MAE 411 | 3 |
| MAE 476 | 3 | TECHNICAL ELECTIVE | 3 |
| TECHNICAL ELECTIVE | 3 | TECHNICAL ELECTIVE | 3 |
| TECHNICAL ELECTIVE | 3 | GEF 5 | 3 |
| TOTAL | 15 | TOTAL | 15 |

Students must have a cumulative GPA of 2.50 in all college coursework attempted, and a C or better in MTH 173 (WVU MATH 155), CHM 111 (WVU CHEM 115), ENG 101 (WVU ENGL 101), and EGR 120 & 126 (WVU ENGR 101 & 102) to be admitted directly to the Aerospace Engineering program upon transferring to West Virginia University.

The WVU General Education Foundations curriculum (GEF) includes eight areas (F1-F8). F1 (Composition and Rhetoric), F2 (Science & Technology), and F3 (Mathematics & Quantitative Skills) are specified above. These 3 Areas will be fulfilled by General Education requirements at Lord Fairfax. Students must also complete 3 credit hours from each of the GEF Areas 4 through 7, and are encouraged to study the provided GEF chart to select electives that satisfy these

requirements. By using the suggested plan of study above, students are able to fulfill GEF Areas 6 and 7 of this requirement prior to graduation from Lord Fairfax. GEF Area 5 is slated to be completed at WVU. Students not completing this requirement at LFCC will need to do so at WVU.

The WVU GEF curriculum also includes 9 credits (normally 3 three-credit courses) of Focus coursework (F8), to help students capitalize on the range and diversity of courses offered at WVU. In order to maximize connections, incorporate additional competencies, and encourage true breadth of study, students must fulfill the Focus through completion of one of the following academic paths: (a) completion of a minor; (b) completion of a double major or dual degree, or (c) completion of 9 credits of additional coursework from the list of courses approved for GEF Areas F1 through F7. Lord Fairfax students pursuing a degree in Aerospace Engineering will fulfill this requirement upon completion of required Science and Mathematics courses.

Students who have questions about admission into their intended program, GEF requirements, GEF Focus courses, or any other issue relating to academics at West Virginia University should contact the Office of Undergraduate Education at WVU.