**Mechanical Engineering Collaborative Program**2019-2021 Undergraduate Catalog

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| --- | --- | --- | --- | --- |
| **Semester 1 - Fall** | | | | |
| † Gateway | Credits | Major | Other | GEP |
| ENES 100 – Intro to Engineering Design | 3 | TF |  |  |
| ENGL 101 – First-Year Composition | 3 |  |  | CS1 |
| MATH 236 – Calculus I | 4 | X |  | CS3 |
| PHYS 261† – Physics I | 4 | X |  | C |
| ORIE 101 – Intro to Higher Education | 1 |  | X |  |
|  |  |  |  |  |
| **Semester Total** | 15 |  | | |

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| **Semester 3 - Fall** | | | | |
| \*Fall Only  † Gateway (CHEM 202 alternate) | Credits | Major | Other | GEP |
| CHEM 133†\* – Chemistry for Engineers | 3 | X |  |  |
| ENES 220\* - Mechanics of Materials | 3 | X |  |  |
| ENES 221\* - Dynamics | 3 | X |  |  |
| MATH 238 – Calculus III | 4 | X |  |  |
| PHYS 263 – Physics III | 4 | X |  |  |
|  |  |  |  |  |
| **Semester Total** | 17 |  | | |

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| **Semester 5 - Fall** | | | | |
| \*Fall Only | Credits | Major | Other | GEP |
| ENME 272 – Intro to C.A.D. | 2 | X |  |  |
| ENME 331\* - Fluid Mechanics | 3 | X |  |  |
| ENME 350\* - Electronics & Instrument I | 3 | X |  |  |
| ENME 392\* - Statistical Methods | 3 | X |  |  |
| GEP Humanities | 3 |  |  | B |
| GEP Social Science | 3 |  |  | D |
| **Semester Total** | 17 |  | | |

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| **Semester 7 - Fall** | | | | |
| \*Fall Only | Credits | Major | Other | GEP |
| ENME 371\* - Engineering & Mfg. | 3 | X |  |  |
| ENME 400\* - Machine Design | 3 | X |  |  |
| ENME 462\* - Vib., Contr., & Opt. II | 3 | X |  |  |
| GEP FSU Colloquia II | 3 |  |  | E |
| ENME 400-level Elective (2 of 3) | 3 | X |  |  |
| ENME 400-level Elective (3 of 3) | 3 | X |  |  |
| **Semester Total** | 18 |  | | |

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| **Semester 2 - Spring** | | | | |
| \*\*Spring Only  † Gateway | Credits | Major | Other | GEP |
| CHEM 201 – General Chemistry I | 4 | X |  | C |
| ENES 102\*\* - Statics | 3 | X |  |  |
| MATH 237† – Calculus II | 4 | X |  |  |
| PHYS 262 – Physics II | 4 | X |  |  |
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| **Semester Total** | 15 |  | | |

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| **Semester 4 - Spring** | | | | |
| \*\*Spring Only | Credits | Major | Other | GEP |
| ENME 232\*\* Thermodynamics | 3 | X |  |  |
| ENME 271\*\* - Numerical Methods | 3 | X |  |  |
| IDIS 150 – First-Year FSU Colloquia | 3 |  |  | E |
| MATH 432 – Differential Equations | 3 | X |  |  |
| GEP Social Science | 3 |  |  | D |
|  |  |  |  |  |
| **Semester Total** | 15 |  | | |

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| **Semester 6 - Spring** | | | | |
| \*\*Spring Only | Credits | Major | Other | GEP |
| ENME 351\*\* - Electro. & Instruments II | 3 | X |  |  |
| ENME 361\*\* - Vib., Contr., & Opt. I | 3 | X |  |  |
| ENME 382\*\* - Materials & Mfg. | 3 | X |  |  |
| ENGL 338 or ENGL 339 | 3 |  |  | CS2 |
| GEP Humanities | 3 |  |  | B |
| ENME 400-level Elective (1 of 3) | 3 | X |  |  |
| **Semester Total** | 18 |  | | |

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| **Semester 8 - Spring** | | | | |
| \*\*Spring Only | Credits | Major | Other | GEP |
| ENME 332\*\* - Transfer Processes | 3 | X |  |  |
| ENME 472\*\* - Product & Process Dev. | 3 | X |  |  |
| Non-ME Technical Elective (1 of 2) | 3 | X |  |  |
| Non-ME Technical Elective (2 of 2) | 3 | X |  |  |
| GEP Fine & Performing Arts | 3 |  |  | A |
| GEP Identity & Difference | 3 |  |  | F |
| **Semester Total** | 18 |  | | |

**Updated by/date:** Dr. Eric Moore, Physics & Engineering, 5/13/2019 **Total Credits:** 133