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Mechanical Engineering and Physics, BSME (Boston)

This undergraduate program takes advantage of the physical similarities between mechanical engineering and physics, providing students with the opportunity to pursue studies that explore both topics. The program culminates with mechanical engineering capstone design.

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

Universitywide Requirements

All undergraduate students are required to complete the Universitywide Requirements (https://catalog.northeastern.edu/undergraduate/university-academics/university-wide-requirements/).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (https://catalog.northeastern.edu/undergraduate/university-academics/nupath/).

NUpath requirements: Interpreting Culture (IC), Understanding Societies and Institutions (SI), Engaging Differences and Diversity (DD), and Integrating Knowledge and Skills Through Experience (EX) are not explicitly satisfied by required engineering coursework. Successful completion of a cooperative education experience fulfills the EX requirement. Students are responsible for satisfying unfulfilled NUpath requirements with general elective coursework.

Engineering Requirement

| Code | Title | Hours |
|--|---|-------|
| Required Engineering | | |
| ME 2340 | Introduction to Material Science | 5 |
| and ME 2341 | and Lab for ME 2340 | |
| ME 2350 | Statics | 4 |
| ME 2355 | Mechanics of Materials | 5 |
| and ME 2356 | and Lab for ME 2355 | |
| ME 2380 | Thermodynamics | 4 |
| and ME 2381 | and Recitation for ME 2380 | |
| ME 3455 | Dynamics | 5 |
| and ME 3456 | and Lab for ME 3455 | |
| ME 3475 | Fluid Mechanics | 4 |
| or ME 3480 | International Applications of Fluid Mechanics | |
| ME 4505 | Measurement and Analysis with Thermal Science Application | 5 |
| and ME 4506 | and Lab for ME 4505 | |
| ME 4508 | Mechanical Engineering Computation and Design | 4 |
| or ME 4565 | Introduction to Computational Fluid Dynamics | |
| ME 4550 | Mechanical Engineering Design | 4 |
| ME 4555 | System Analysis and Control | 4 |
| ME 4570 | Thermal Systems Analysis and Design | 4 |
| Mechanical Engineering Capstone | | |
| MEIE 4701 | Capstone Design 1 | 1 |
| MEIE 4702 | Capstone Design 2 | 5 |
| Supplemental Credit | | |
| 2 semester hours from the following course | e counts toward the engineering requirement: | 2 |
| GE 1501 | Cornerstone of Engineering 1 ¹ | |
| 3 semester hours from the following course | e counts toward the engineering requirement: | 3 |
| GE 1502 | Cornerstone of Engineering 2 ¹ | |
| | | |

Mathematics/Science Requirement

| Code | Title | Hours |
|------------------------------|---------------------------------|-------|
| Required Mathematics/Science | | |
| CHEM 1151 | General Chemistry for Engineers | 4 |
| and CHEM 1153 | and Recitation for CHEM 1151 | |

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| MATH 1341 | Calculus 1 for Science and Engineering | 4 |
|--|---|---------------------|
| MATH 1342 | Calculus 2 for Science and Engineering | 4 |
| MATH 2321 | Calculus 3 for Science and Engineering | 4 |
| MATH 2341 | Differential Equations and Linear Algebra for Engineering | 4 |
| PHYS 1161 | Physics 1 | 5 |
| and PHYS 1162 | and Lab for PHYS 1161 | |
| and PHYS 1163 | and Recitation for PHYS 1161 | - |
| PHYS 1165 and PHYS 1166 | Physics 2 and Lab for PHYS 1165 | 5 |
| and PHYS 1167 | and Recitation for PHYS 1165 | |
| PHYS 2303 | Modern Physics | 4 |
| PHYS 2371 | Electronics | 4 |
| and PHYS 2372 | and Lab for PHYS 2371 | |
| PHYS 3600 | Advanced Physics Laboratory | 4 |
| PHYS 3601 | Classical Dynamics | 4 |
| PHYS 3602 | Electricity and Magnetism 1 | 4 |
| PHYS 5318 | Principles of Experimental Physics | 4 |
| Advanced Physics Elective | , , , | |
| Complete one 4-semester-hours co | ourse from the following: | 4 |
| PHYS 3600 to PHYS 7999 | , | |
| Supplemental Credit | | |
| •• | g course counts toward the mathematics/science requirement: | 1 |
| GE 1501 | Cornerstone of Engineering 1 1 | |
| | 3 3 | |
| Professional Development | | |
| Code | Title | Hours |
| Professional Development | | |
| ENCP 2000 | Introduction to Engineering Co-op Education | 1 |
| ENCP 3000 | Professional Issues in Engineering | 1 |
| | 1 Toresolonal losacs in Engineering | Į. |
| GE 1000 | First-Year Seminar | 1 |
| | | |
| GE 1000 Additional Required Courses | | |
| GE 1000 Additional Required Courses | First-Year Seminar | 1 |
| GE 1000 Additional Required Courses 1 semester hour from the following GE 1501 | First-Year Seminar g course counts toward the professional development requirement: | 1 |
| GE 1000 Additional Required Courses 1 semester hour from the following GE 1501 | First-Year Seminar g course counts toward the professional development requirement: Cornerstone of Engineering 1 ¹ | 1 |
| GE 1000 Additional Required Courses 1 semester hour from the following GE 1501 1 semester hour from the following GE 1502 | First-Year Seminar g course counts toward the professional development requirement: Cornerstone of Engineering 1 1 g course counts toward the professional development requirement: | 1 |
| GE 1000 Additional Required Courses 1 semester hour from the following GE 1501 1 semester hour from the following GE 1502 Writing Requirements | First-Year Seminar g course counts toward the professional development requirement: Cornerstone of Engineering 1 1 g course counts toward the professional development requirement: Cornerstone of Engineering 2 1 | 1 |
| GE 1000 Additional Required Courses 1 semester hour from the following GE 1501 1 semester hour from the following GE 1502 Writing Requirements Code | First-Year Seminar g course counts toward the professional development requirement: Cornerstone of Engineering 1 1 g course counts toward the professional development requirement: | 1 |
| GE 1000 Additional Required Courses 1 semester hour from the following GE 1501 1 semester hour from the following GE 1502 Writing Requirements Code Writing | First-Year Seminar g course counts toward the professional development requirement: Cornerstone of Engineering 1 1 g course counts toward the professional development requirement: Cornerstone of Engineering 2 1 | 1 |
| GE 1000 Additional Required Courses 1 semester hour from the following GE 1501 1 semester hour from the following GE 1502 Writing Requirements Code Writing A grade of C or higher is required. | First-Year Seminar g course counts toward the professional development requirement: Cornerstone of Engineering 1 1 g course counts toward the professional development requirement: Cornerstone of Engineering 2 1 Title | 1 1 Hours |
| GE 1000 Additional Required Courses 1 semester hour from the following GE 1501 1 semester hour from the following GE 1502 Writing Requirements Code Writing A grade of C or higher is required. ENGW 1111 | First-Year Seminar g course counts toward the professional development requirement: Cornerstone of Engineering 1 g course counts toward the professional development requirement: Cornerstone of Engineering 2 Title First-Year Writing | 1 |
| GE 1000 Additional Required Courses 1 semester hour from the following GE 1501 1 semester hour from the following GE 1502 Writing Requirements Code Writing A grade of C or higher is required. ENGW 1111 or ENGW 1102 | First-Year Seminar g course counts toward the professional development requirement: Cornerstone of Engineering 1 1 g course counts toward the professional development requirement: Cornerstone of Engineering 2 1 Title First-Year Writing First-Year Writing for Multilingual Writers | 1 1 Hours |
| GE 1000 Additional Required Courses 1 semester hour from the following GE 1501 1 semester hour from the following GE 1502 Writing Requirements Code Writing A grade of C or higher is required. ENGW 1111 or ENGW 1102 ENGW 3302 | First-Year Seminar g course counts toward the professional development requirement: Cornerstone of Engineering 1 1 g course counts toward the professional development requirement: Cornerstone of Engineering 2 1 Title First-Year Writing First-Year Writing for Multilingual Writers Advanced Writing in the Technical Professions | 1 1 Hours |
| GE 1000 Additional Required Courses 1 semester hour from the following GE 1501 1 semester hour from the following GE 1502 Writing Requirements Code Writing A grade of C or higher is required. ENGW 1111 or ENGW 1102 ENGW 3302 or ENGW 3307 | First-Year Seminar g course counts toward the professional development requirement: Cornerstone of Engineering 1 g course counts toward the professional development requirement: Cornerstone of Engineering 2 Title First-Year Writing First-Year Writing for Multilingual Writers Advanced Writing in the Technical Professions Advanced Writing in the Sciences | 1 1 Hours |
| GE 1000 Additional Required Courses 1 semester hour from the following GE 1501 1 semester hour from the following GE 1502 Writing Requirements Code Writing A grade of C or higher is required. ENGW 1111 or ENGW 1102 ENGW 3302 | First-Year Seminar g course counts toward the professional development requirement: Cornerstone of Engineering 1 1 g course counts toward the professional development requirement: Cornerstone of Engineering 2 1 Title First-Year Writing First-Year Writing for Multilingual Writers Advanced Writing in the Technical Professions | 1 1 Hours |
| Additional Required Courses 1 semester hour from the following GE 1501 1 semester hour from the following GE 1502 Writing Requirements Code Writing A grade of C or higher is required. ENGW 1111 or ENGW 1102 ENGW 3302 or ENGW 3307 or ENGW 3315 | First-Year Seminar g course counts toward the professional development requirement: Cornerstone of Engineering 1 g course counts toward the professional development requirement: Cornerstone of Engineering 2 Title First-Year Writing First-Year Writing for Multilingual Writers Advanced Writing in the Technical Professions Advanced Writing in the Sciences | 1 1 Hours |
| Additional Required Courses 1 semester hour from the following GE 1501 1 semester hour from the following GE 1502 Writing Requirements Code Writing A grade of C or higher is required. ENGW 1111 or ENGW 1102 ENGW 3302 or ENGW 3307 or ENGW 3315 Required General Electives | First-Year Seminar g course counts toward the professional development requirement: Cornerstone of Engineering 1 g course counts toward the professional development requirement: Cornerstone of Engineering 2 Title First-Year Writing First-Year Writing for Multilingual Writers Advanced Writing in the Technical Professions Advanced Writing in the Sciences Interdisciplinary Advanced Writing in the Disciplines | 1 1 Hours 4 |
| GE 1000 Additional Required Courses 1 semester hour from the following GE 1501 1 semester hour from the following GE 1502 Writing Requirements Code Writing A grade of C or higher is required. ENGW 1111 or ENGW 1102 ENGW 3302 or ENGW 3307 or ENGW 3315 Required General Electives Code | First-Year Seminar g course counts toward the professional development requirement: | 1 1 Hours 4 Hours |
| Additional Required Courses 1 semester hour from the following GE 1501 1 semester hour from the following GE 1502 Writing Requirements Code Writing A grade of C or higher is required. ENGW 1111 or ENGW 1102 ENGW 3302 or ENGW 3307 or ENGW 3315 Required General Electives Code Complete 8 semester hours of aca | First-Year Seminar g course counts toward the professional development requirement: Cornerstone of Engineering 1 g course counts toward the professional development requirement: Cornerstone of Engineering 2 Title First-Year Writing First-Year Writing for Multilingual Writers Advanced Writing in the Technical Professions Advanced Writing in the Sciences Interdisciplinary Advanced Writing in the Disciplines | 1 1 Hours 4 |
| GE 1000 Additional Required Courses 1 semester hour from the following GE 1501 1 semester hour from the following GE 1502 Writing Requirements Code Writing A grade of C or higher is required. ENGW 1111 or ENGW 1102 ENGW 3302 or ENGW 3307 or ENGW 3315 Required General Electives Code | First-Year Seminar g course counts toward the professional development requirement: | 1 1 Hours 4 Hours |
| Additional Required Courses 1 semester hour from the following GE 1501 1 semester hour from the following GE 1502 Writing Requirements Code Writing A grade of C or higher is required. ENGW 1111 or ENGW 1102 ENGW 3302 or ENGW 3307 or ENGW 3315 Required General Electives Code Complete 8 semester hours of aca | First-Year Seminar g course counts toward the professional development requirement: | Hours Hours |
| Additional Required Courses 1 semester hour from the following GE 1501 1 semester hour from the following GE 1502 Writing Requirements Code Writing A grade of C or higher is required. ENGW 1111 or ENGW 1102 ENGW 3302 or ENGW 3307 or ENGW 3315 Required General Electives Code Complete 8 semester hours of acai Integrative Requirement Code | First-Year Seminar g course counts toward the professional development requirement: Cornerstone of Engineering 1 g course counts toward the professional development requirement: Cornerstone of Engineering 2 Title First-Year Writing First-Year Writing for Multilingual Writers Advanced Writing in the Technical Professions Advanced Writing in the Sciences Interdisciplinary Advanced Writing in the Disciplines Title demic, nonremedial, nonrepetitive courses. | 1 1 Hours 4 Hours 8 |
| Additional Required Courses 1 semester hour from the following GE 1501 1 semester hour from the following GE 1502 Writing Requirements Code Writing A grade of C or higher is required. ENGW 1111 or ENGW 1102 ENGW 3302 or ENGW 3307 or ENGW 3315 Required General Electives Code Complete 8 semester hours of acai Integrative Requirement Code | First-Year Seminar g course counts toward the professional development requirement: Cornerstone of Engineering 1 g course counts toward the professional development requirement: Cornerstone of Engineering 2 Title First-Year Writing First-Year Writing for Multilingual Writers Advanced Writing in the Technical Professions Advanced Writing in the Sciences Interdisciplinary Advanced Writing in the Disciplines Title demic, nonremedial, nonrepetitive courses. | 1 1 Hours 4 Hours 8 |

Major GPA Requirement

2.000 minimum GPA required in IE, ME, and MEIE courses

Program Requirement

139 total semester hours required

Plan of Study

Sample Plans of Study

FOUR YEARS, ONE CO-OP IN SUMMER SECOND HALF/FALL

| Year 1 | | MEH GEGORD TIALI / I ALL | | | | | |
|--|-------|--|-------|--------------------------|-------|------------|-------|
| Fall | Hours | Spring | Hours | Summer 1 | Hours | Summer 2 | Hours |
| CHEM 1151 and CHEM 1153 (ND) | | 4 ENGW 1111 (WF) | | 4 Vacation | | Vacation | |
| GE 1000 | | 1 GE 1502 (ER) | | 4 | | | |
| GE 1501 | | 4 MATH 1342 (FQ) | | 4 | | | |
| MATH 1341 (FQ) | | 4 PHYS 1165 and PHYS 1166 and PHYS 1167 (ND) | | 5 | | | |
| PHYS 1161 and PHYS 1162 and PHYS 1163 (ND) | | 5 | | | | | |
| | | 18 | | 17 | | 0 | 0 |
| Year 2 | | | | | | | |
| Fall | Hours | Spring | Hours | Summer 1 | Hours | Summer 2 | Hours |
| MATH 2321 (FQ) | | 4 ENCP 2000 | | 1 ME 3475 or 3480 | | 4 Vacation | |
| ME 2340 and ME 2341 (WI) | | 5 MATH 2341 | | 4 PHYS 3600 (ND, AD, WI) | | 4 | |
| ME 2350 | | 4 ME 2355 and ME 2356 | | 5 | | | |
| PHYS 2303 (ND) | | 4 ME 2380 and ME 2381 | | 4 | | | |
| | | PHYS 3601 (ND) | | 4 | | | |
| | | 17 | | 18 | | 8 | 0 |
| Year 3 | | | | | | | |
| Fall | Hours | Spring | Hours | Summer 1 | Hours | Summer 2 | Hours |
| ENGW 3302, 3307, or 3315 (WD) | | 4 ME 3455 and ME 3456 | | 5 ME 4550 | | 4 Co-op | 0 |
| ME 4505 and ME 4506 (AD) | | 5 ME 4508 | | 4 MEIE 4701 (EI, CE, WI) | | 1 | |
| PHYS 2371 and PHYS 2372 (ND) | | 4 ME 4570 | | 4 General elective | | 4 | |
| General elective | | 4 PHYS 3602 (ND) | | 4 | | | |
| | | ENCP 3000 | | 1 | | | |
| | | 17 | | 18 | | 9 | 0 |
| Year 4 | | | | | | | |
| Fall | Hours | Spring | Hours | | | | |
| Со-ор | | 0 ME 4555 | | 4 | | | |
| | | MEIE 4702 (EI, CE, WI) | | 5 | | | |
| | | PHYS 5318 (ND, AD, WI, CE) | | 4 | | | |
| | | Advanced physics elective | | 4 | | | |
| | | 0 | | 17 | | | |

Total Hours: 139

Students may substitute Engineering Design (GE 1110) and Engineering Problem Solving and Computation (GE 1111) for Cornerstone of Engineering 1 (GE 1501) and Cornerstone of Engineering 2 (GE 1502).

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FOUR YEARS, ONE CO-OP IN SPRING/SUMMER FIRST HALF

| Year I | | | | | | | | |
|---|-------|---|-------|-------------|-------|--------------------------|-------|---|
| Fall | Hours | Spring | Hours | Summer 1 | Hours | Summer 2 | Hours | |
| CHEM 1151 and CHEM 1153 | | 4 GE 1502 | | 4 Vacation | | Vacation | | |
| GE 1501 | | 4 ENGW 1111 | | 4 | | | | |
| GE 1000 | | 1 MATH 1342 | | 4 | | | | |
| MATH 1341 | | 4 PHYS 1165 and PHYS 1166 and PHYS 1167 | | 5 | | | | |
| PHYS 1161 and PHYS 1162 and PHYS 1163 | | 5 | | | | | | |
| | | 18 | | 17 | | 0 | | 0 |
| Year 2 | | | | | | | | |
| Fall | Hours | Spring | Hours | Summer 1 | Hours | Summer 2 | Hours | |
| PHYS 2303 | | 4 ENCP 2000 | | 1 ME 3475 | | 4 Vacation | | |
| MATH 2321 | | 4 MATH 2341 | | 4 PHYS 3600 | | 4 | | |
| ME 2350 | | 4 ME 2355 and ME 2356 | | 5 | | | | |
| ME 2340 and ME 2341 | | 5 ME 2380 and ME 2381 | | 4 | | | | |
| | | PHYS 3601 | | 4 | | | | |
| | | 17 | | 18 | | 8 | | 0 |
| Year 3 | | | | | | | | |
| Fall | Hours | Spring | Hours | Summer 1 | Hours | Summer 2 | Hours | |
| ME 3455 and ME 3456 | | 5 Co-op | | 0 Co-op | | 0 ME 4550 | | 4 |
| ME 4570 | | 4 | | | | MEIE 4701 | | 1 |
| PHYS 2371 and PHYS 2372 | | 4 | | | | ENGW 3302, 3307, or 3315 | | 4 |
| General Elective | | 4 | | | | | | |
| | | 17 | | 0 | | 0 | | 9 |
| Year 4 | | | | | | | | |
| Fall | Hours | Spring | Hours | | | | | |
| MEIE 4702 | | 5 PHYS 5318 | | 4 | | | | |
| ME 4505 and ME 4506 | | 5 Advanced Physics Elective | | 4 | | | | |
| PHYS 3602 | | 4 ME 4508 or 4565 | | 4 | | | | |
| General Elective | | 4 ME 4555 | | 4 | | | | |
| ENCP 3000 | | 1 | | | | | | |
| | | 19 | | 16 | | | | |
| Total Hours: 139 | | | | | | | | |

Total Hours: 139

FIVE YEARS, THREE CO-OPS IN SUMMER SECOND HALF/FALL

Year 1

| Fall | Hours | Spring | Hours | Summer 1 | Hours | Summer 2 | Hours |
|---------------------------------|-------|--|-------|------------|-------|----------|-------|
| CHEM 1151 and CHEM 1153 (ND) | | 4 ENGW 1111 (WF) | | 4 Vacation | | Vacation | |
| GE 1000 | | 1 GE 1502 (ER) | | 4 | | | |
| GE 1501 | | 4 MATH 1342 (FQ) | | 4 | | | |
| MATH 1341 (FQ) | | 4 PHYS 1165 and PHYS 1166 and PHYS 1167 (ND) | | 5 | | | |

PHYS 1161 and PHYS 1162 and PHYS 1163 (ND) 5

| | | 18 | | 17 | | 0 | | 0 |
|---------------------------------|-------|------------------------------------|-------|--------------------------|-------|----------|-------|---|
| Year 2 | | 10 | | ** | | Ü | | Ü |
| Fall | Hours | Spring | Hours | Summer 1 | Hours | Summer 2 | Hours | |
| MATH 2321 (FQ) | | 4 ENCP 2000 | | 1 Vacation | | Со-ор | | 0 |
| MATH 2341 | | 4 ME 2340 and ME 2341 (WI) | | 5 | | | | |
| ME 2350 | | 4 ME 2355 and ME 2356 | | 5 | | | | |
| PHYS 2371 and PHYS 2372 (ND) | | 4 ME 2380 and ME 2381 | | 4 | | | | |
| | | PHYS 2303 (ND) | | 4 | | | | |
| | | 16 | | 19 | | 0 | | 0 |
| Year 3 | | | | | | | | |
| Fall | Hours | Spring | Hours | Summer 1 | Hours | Summer 2 | Hours | |
| Со-ор | | 0 ENGW 3302, 3307, or 3315 (WD) | | 4 ME 3475 or 3480 | | 4 Co-op | | 0 |
| | | ME 3455 and ME 3456 | | 5 PHYS 3600 (ND, AD, WI) | | 4 | | |
| | | ME 4508 | | 4 | | | | |
| | | PHYS 3602 (ND) | | 4 | | | | |
| | | 0 | | 17 | | 8 | | 0 |
| Year 4 | | | | | | | | |
| Fall | Hours | Spring | Hours | Summer 1 | Hours | Summer 2 | Hours | |
| Со-ор | | 0 ENCP 3000 | | 1 ME 4550 | | 4 Co-op | | 0 |
| | | ME 4505 and ME 4506 (AD) | | 5 MEIE 4701 (EI, WI, CE) | | 1 | | |
| | | ME 4555 | | 4 General elective | | 4 | | |
| | | ME 4570 | | 4 | | | | |
| | | PHYS 3601 (ND) | | 4 | | | | |
| | | 0 | | 18 | | 9 | | 0 |
| Year 5 | | | | | | | | |
| Fall | Hours | Spring | Hours | | | | | |
| Со-ор | | 0 MEIE 4702 (EI, WI, CE) | | 5 | | | | |
| | | PHYS 5318 (ND, AD, CE, WI |) | 4 | | | | |
| | | Advanced physics elective | | 4 | | | | |
| | | General elective | | 4 | | | | |
| | | 0 | | 17 | | | | _ |

Total Hours: 139

FIVE YEARS, THREE CO-OPS IN SPRING/SUMMER FIRST HALF

Year 1

| Fall | Hours | Spring | Hours | Summer 1 | Hours | Summer 2 | Hours |
|----------------------------|-------|---|-------|------------|-------|----------|-------|
| CHEM 1151 and CHEM 1153 | | 4 ENGW 1111 | | 4 Vacation | | Vacation | |
| GE 1000 | | 1 GE 1502 | | 4 | | | |
| GE 1501 | | 4 PHYS 1165 and PHYS 1166 and PHYS 1167 | | 5 | | | |
| MATH 1341 | | 4 MATH 1342 | | 4 | | | |

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PHYS 1161 and PHYS 1162 and PHYS 1163

| and PHYS 1163 | | | | | | | | |
|----------------------------|-------|-----------------------------|-------|----------|-------|------------------|-------|---|
| | | 18 | | 17 | | 0 | | 0 |
| Year 2 | | | | | | | | |
| Fall | Hours | Spring | Hours | Summer 1 | Hours | Summer 2 | Hours | |
| MATH 2321 and MATH 2322 | | 4 Co-op | | 0 Со-ор | | 0 Vacation | | |
| MATH 2341 and MATH 2342 | | 4 | | | | | | |
| PHYS 2371 and PHYS 2372 | | 4 | | | | | | |
| ME 2350 | | 4 | | | | | | |
| ENCP 2000 | | 1 | | | | | | |
| | | 17 | | 0 | | 0 | | 0 |
| Year 3 | | | | | | | | |
| Fall | Hours | Spring | Hours | Summer 1 | Hours | Summer 2 | Hours | |
| ME 2340 and ME 2341 | | 5 Co-op | | 0 Со-ор | | 0 ME 3475 | | 4 |
| ME 2355 and ME 2356 | | 5 | | | | PHYS 3600 | | 4 |
| ME 2380 and ME 2381 | | 4 | | | | | | |
| PHYS 2303 | | 4 | | | | | | |
| | | 18 | | 0 | | 0 | | 8 |
| Year 4 | | | | | | | | |
| Fall | Hours | Spring | Hours | Summer 1 | Hours | Summer 2 | Hours | |
| PHYS 3602 | | 4 Co-op | | 0 Co-op | | 0 ME 4550 | | 4 |
| ME 3455 and ME 3456 | | 5 | | | | MEIE 4701 | | 1 |
| ME 4570 | | 4 | | | | General Elective | | 4 |
| ENGW 3302, 3307, or 3315 | | 4 | | | | | | |
| | | 17 | | 0 | | 0 | | 9 |
| Year 5 | | | | | | | | |
| Fall | Hours | Spring | Hours | | | | | |
| MEIE 4702 | | 5 ME 4555 | | 4 | | | | |
| ENCP 3000 | | 1 PHYS 5318 | | 4 | | | | |
| ME 4505 and ME 4506 | | 5 Advanced Physics Elective | | 4 | | | | |
| ME 4508 or 4565 | | 4 General Elective | | 4 | | | | |
| PHYS 3601 | | 4 | | | | | | |
| | | 19 | | 16 | | | | |

Total Hours: 139

Notes:

PHYSICS COURSE OFFERING SCHEDULE

PHYS 2303 offered every fall, spring, and summer second half

PHYS 2371/PHYS 2372 offered every fall

PHYS 3600 offered every summer first half and summer second half

PHYS 3601 offered every fall and spring

PHYS 3602 offered every fall and spring

PHYS 3603 offered fall, spring all years, and summer first half (odd years)

PHYS 4115 offered every fall and spring

PHYS 4305 offered fall, spring all years, and summer second half (even years)

PHYS 4621 offered fall (even years) and spring (odd years)

PHYS 4623 offered fall (even years) and summer first half (even years)

PHYS 4651 offered fall (odd years) and spring (odd years)

PHYS 4652 offered every spring

PHYS 5318 offered every spring