

Accepted Restricted Elective Courses

Prerequisites for these courses are satisfied by required courses in the BSMET program (or satisfied by taking other accepted restricted elective courses)

Engineering

- ENGR 329 Bicycle Design and Frame-Building (3 Credits) Prerequisites: ENGR 125 and ENGR 263.
- ENGR 333 Lean Principles (3 Credits) Prerequisites: ENGR 225.
- ENGR 336 Heat and Power (3 Credits) Prerequisites: ENGR 312 and ENGR 321.
- ENGR 353 Exploring Entrepreneur Opportunities (3 Credits) Prerequisites: none.
- ENGR 424 Machine Elements (3 Credits) Prerequisites: ENGR 325.
- ENGR 425 Advanced Manufacturing (3 Credits) Prerequisites: ENGR 225, ENGR 305, and STAT 305.
- ENGR 455 Fluid Power Systems (3 Credits) Prerequisites: ENGR 321.

Math

- MATH 236 Differential Equations and Linear Algebra (4 Credits) Prerequisites: MATH 152 or MATH 136.
- MATH 361 Numerical Analysis (4 Credits) Prerequisites: MATH 152 or MATH 136.
- MATH 362 Fourier Analysis (3 Credits) Prerequisites: MATH 152 or MATH 136.
- MATH 365 Mathematical Modeling (3 Credits) Prerequisites: MATH 136 or MATH 152, and one of the following: MATH 225, MATH 236, MATH 240, MATH 253, MATH 260, or STAT 200.
- MATH 366 Methods of Applied Mathematics II (3 Credits) Prerequisites: MATH 360; and CSCI 110/CSCI 110L or CSCI 111 or CSCI 130 or CSCI 310.
- MATH 369 Discrete Structures I (3 Credits) Prerequisites: MATH 152 or MATH 136; and CSCI 110/CSCI 110L or CSCI 111 or CSCI 130.

Computer Science

- CSCI 360 Robotic Perception and Planning (3 Credits) Prerequisites: CSCI 111 or CSCI 130.

Business/Computer Information Systems

- CISB 305 Solving Problems Using Spreadsheets (3 Credits) Prerequisites: none.

Statistics

- STAT 301 Computational Statistics (3 Credits) Prerequisites: STAT 200 or STAT 215 or STAT 241 or CISB 241. (Request override from instructor if you have completed STAT 305)
- STAT 312 Correlation and Regression (3 Credits) Prerequisites: STAT 301.
- STAT 313 Sampling Techniques (3 Credits) Prerequisites: STAT 200 or STAT 215 or STAT 241 or CISB 241. (Request override from instructor if you have completed STAT 305)
- STAT 425 Design and Analysis of Experiments (3 Credits) Prerequisites: STAT 301; and MATH 151 or MATH 135 or MATH 131 or MATH 121.

Biology

- BIOL 209 & 209L Human Anatomy and Physiology (3 Credits Lecture + 1 Credit Lab) Prerequisites: none.
- BIOL 352 & 352L Human Physiology (3 Credits Lecture + 1 Credit Lab) Prerequisites: BIOL 105 or BIOL 209. Corequisites: BIOL 352L.
- BIOL 410 & 410L Human Osteology (3 Credits) Prerequisites: BIOL 209/BIOL 209L. Corequisites: BIOL 410L.

Environmental Science

- ENVS 331 & 331L Water Quality (3 Credits Lecture + 1 Credit Lab) Prerequisites: CHEM 121 or higher; and STAT 200. Corequisites: ENVS 331L. (Request override from instructor if you have completed STAT 305)
- ENVS 370 Renewable Energy (3 Credits) Prerequisites: MATH 113 or higher.

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May require 1 or more additional courses to satisfy prerequisites

Math

- MATH 310 Number Theory (3 Credits) Prerequisites: MATH 240.
- MATH 352 Advanced Calculus (3 Credits) Prerequisites: MATH 240.
- MATH 360 Methods of Applied Mathematics (3 Credits) Prerequisites: MATH 253, and MATH 236 or MATH 260.

Computer Science

- CSCI 322 Embedded Systems (3 Credits) Prerequisites: CSCI 241; or CSCI 112 and ENGR 140
- CSCI 345 Video Game Design (3 Credits) Prerequisites: CSCI 112.
- CSCI 365 Data Mining (3 Credits) Prerequisites: CSCI 112; and STAT 200 or STAT 215.

Statistics

- STAT 350 Mathematical Statistics I (3 Credits) Prerequisites: STAT 200 and MATH 253 (may be taken concurrently). (Request override from instructor if you have completed STAT 305)
- STAT 351 Mathematical Statistics II (3 Credits) Prerequisites: STAT 350.

Physics

- PHYS 230 Intermediate Dynamics (3 Credits) Prerequisites: PHYS 132/PHYS 132L, and MATH 253 (may be taken concurrently).
- PHYS 231 Modern Physics (3 Credits) Prerequisites: PHYS 132/PHYS 132L, and MATH 253 (may be taken concurrently).
- PHYS 311 Electromagnetic Theory I (3 Credits) Prerequisites: MATH 253; and PHYS 230 or PHYS 231.
- PHYS 312 Electromagnetic Theory II (3 Credits) Prerequisites: PHYS 311.
- PHYS 321 Quantum Theory I (3 Credits) Prerequisites: PHYS 231; and MATH 260 or MATH 236.
- PHYS 342 Advanced Dynamics (3 Credits) Prerequisites: PHYS 230, and MATH 260 or MATH 236.
- PHYS 362 Statistical and Thermal Physics (3 Credits) Prerequisites: CHEM 321 or PHYS 230; and MATH 253.
- PHYS 372 General Relativity (3 Credits) Prerequisites: PHYS 230 and MATH 236 or MATH 260.

Chemistry

- CHEM 300 Environmental Chemistry (4 Credits) Prerequisites: CHEM 122/CHEM 122L or CHEM 132/CHEM 132L.
- CHEM 301 & 301L Analytical Chemistry (3 Credits Lecture + 1 Credit Lab) Prerequisites: CHEM 132/CHEM 132L. Corequisites: CHEM 301L.
- CHEM 311 & 311L Organic Chemistry I (4 Credits Lecture + 1 Credit Lab) Prerequisites: CHEM 132/CHEM 132L. Corequisites: CHEM 311L.
- CHEM 312 & 312L Organic Chemistry II (4 Credits Lecture + 1 Credit Lab) Prerequisites: CHEM 132/CHEM 132L or permission of instructor. Corequisites: CHEM 312L.
- CHEM 321 Physical Chemistry I (3 Credits) Prerequisites: CHEM 132/CHEM 132L or CHEM 151/CHEM 151L; and MATH 152; and PHYS 111/PHYS 111L or PHYS 131/PHYS 131L.
- CHEM 322 Physical Chemistry II (3 Credits) Prerequisites: CHEM 132/CHEM 132L or CHEM 151/CHEM 151L; and MATH 253 (may be taken concurrently); and PHYS 111/PHYS 111L or PHYS 131/PHYS 131L.