

State University of New York at Binghamton
Thomas J. Watson School of Engineering and Applied Science
BS in Mechanical Engineering-Four-Year Program
 Application Curriculum Code: 0268 (If undecided use: 0229)

Fall 2016

ENGINEERING DESIGN DIVISION

Fall

Math 224/225 Calculus I
 Chem 111 Chemical Principles (w/lab)
 WTSN 111 Introduction to Engineering Design
 WTSN 103 Engineering Communications I
 General Education Elective (G)
(16)

Spring

Math 226/227 Calculus II (Math 224/225)
 Phys 131 General Physics I (w/lab) (Calc I)
 WTSN 112 Intro. Engr. Analysis (J) (WTSN 111)
 WTSN 104 Engr. Comm. II (WTSN 103)
 General Education Elective (P) **(16)**

Final three years of Mechanical Engineering Major

Pre- or Co-requisites shown in parentheses.

Year 2

Fall

Math 324 ODEs for Sci/Engrs (Math 226/227)
 Phys 132 General Physics II (w/lab) (Phys 131)
 ME 212 ME Programming (WTSN 112)
 ME 273 Statics⁽¹⁾ (Phys 131)
 General Education Elective (A)
(17)

Spring

Math 323 Calculus III (Math 226/227)
 ME 211 Solid Mechanics⁽¹⁾ (ME 273⁽¹⁾)
 ME 274 Dynamics⁽¹⁾ (ME 273)
 EECE 260 Circuits (w/lab) (Phys 132)
 Body/Wellness **(16)**

Year 3

Fall

ME 302 Engr. Analysis (Math 323 & 324)
 ME 331 Thermodynamics (Math 323 & 324,
 Phys 131)
 ME 362 Materials Science (ME 363,
 Chem 111, Phys 132)
 ME 363 Materials Laboratory (co-req 362)
 ME 381 Computer-Aided Engr. (w/lab)
 (ME 211⁽¹⁾, co-req 212)
 General Education Elective (N)
(17)

Spring

ME 303 Engr. Comp. Meth. (ME 212, 302)
 ME 351 Fluid Mechanics (ME 302, 331)
 ME 391 Measurements & Instrumentation
 (w/lab) (EECE 260, Math 324)
 ME 392 Mechanical Engr. Design
 (ME 362, ME 381)
 Open Elective (2 credits min.) **(15)**

Year 4

Fall

ME 421 Mech. Vibrations (ME 274⁽¹⁾, 302)
 ME 441 Heat Transfer (ME 331, 351)
 ME 493 Senior Project I (ME 391, 392,
 351; Co-req ME 421, 441)
 ME 498 Senior Project Lab I (co-req 493)
 Engineering Elective⁽²⁾
 Technical Elective⁽²⁾
(15)

Spring

ME 424 Control Systems in ME (ME 421)
 ME 494 Senior Project II (J) (ME 493)
 ME 499 Senior Project Lab II (co-req 494)
 ME Elective⁽²⁾ (ME 400 or above)
 Technical Elective⁽²⁾
 General Education Elective (H) **(16)**

⁽¹⁾ Must be completed with a grade of C- or better to satisfy pre-requisites

⁽²⁾ See ME Tech Elective Requirements Document