

## BSME Completion Curriculum for Houston Engineering Center

### Mechanical Engineering Completion Curriculum

Students who have earned the Texas Associate of Science in Engineering Science degree from an ASAC/ABET accredited program at a participating community college, with an overall GPA of at least 2.50/4.00 and with no grade lower than “C” are eligible to pursue the Mechanical Engineering Completion Program to earn a Bachelor of Science in Mechanical Engineering. This pathway enables a student to begin their engineering degree program at a participating community college and complete the degree at UT Tyler.

### Course Requirements for Completion Curriculum

#### Junior Year

##### First Semester (17 hrs)

MENG 3301 Thermodynamics I  
MENG 3306 Mechanics of Materials  
MENG 3310 Fluid Mechanics  
MENG 3303 Dynamics of Machinery  
  
MENG 3210 Mechanical Engineering Lab I  
MATH 3351 Probability and Statistics for Engineers and Scientists

##### Second Semester (17 hrs)

MENG 3304 Thermodynamics II  
MENG 3316 Heat Transfer  
  
MENG 3309 Mechanical Systems Design  
  
MENG 3211 Mechanical Engineering Lab II  
MENG 3319 Materials Science and Manufacturing  
ENGR 3314 Design Methodology in Engineering

#### Senior Year

##### First Semester (17 hrs)

MENG 4115 Senior Design I I  
MENG 4312 System Dynamics and Control  
MENG 4313 Thermal/Fluid Systems Design  
HIST 1302 United States History II (TCCN: HIST 1302)  
  
ENGR 4109 Senior Seminar  
MATH 3203 Matrix Methods in Science OR  
MATH 3315 Linear Algebra and Matrix Theory Technical Elective

##### Second Semester (15 hrs)

MENG 4315 Senior Design II  
POLS Introductory American Government (TCCN: GOVT 2305)  
PHIL 2306 Introduction to Ethics (TCCN: PHIL 2306)  
  
Technical Elective (6 hrs)  
ENGR 4009 FE Exam Prep