

# College of Science, Technology, Engineering, and Mathematics

## Mechanical Engineering BS

(149-150 credits)

### Why Study Mechanical Engineering?

Mechanical engineering is among the country's highest paid occupations and lowest employment rates. The current economy thrives on innovation, and mechanical engineers are at the forefront of it, constantly developing not only new and exciting products, but also technologies that improve society and the world. A graduate with a BSME can expect a wide range of options. Mechanical engineers are in high demand in the bio-mechanical field, aeronautics, structural applications, energy transfer, robotics, automation, composite materials, and alternative energy. Many graduates have begun their careers working for Boeing and Microsoft in the Northwest, and many are employed in diverse companies in positions ranging from design engineers to upper management.

### Other Degree Options

Minors in Applied Technology, Construction Management, Manufacturing, Geotechnical Engineering, and Mechanical Engineering

### Career Opportunities

Design Engineer, HVAC Engineer, Manufacturing Engineer, Materials Engineer, Robotics and Automation, and Mechanical Engineer



### Department Chair

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<http://www.ewu.edu/cstem>

This is an example of a four year class schedule. Academic Advisors are there to help create individualized plans.

First Year

Fall 1

BACR (5 cr.)  
MATH 161 (5 cr.)  
PHYS 151 (4 cr.)  
PHYS 161 (1 cr.)

Q2

ENGL 101 (5 cr.)  
MATH 162 (5 cr.)  
PHYS 152 (4 cr.)

Q3

MATH 163 (5 cr.)  
MENG 217 (5 cr.)  
PHYS 153 (4 cr.)  
PHYS 163 (1 cr.)

Second Year

Q5

Diversity (upper-division) (5)  
MATH 347 (4 cr.)  
MENG 207 (3 cr.)  
MENG 240 (4 cr.)

Q6

MENG 201 or CSCD 255 (5 cr.)  
ENGL 201 (5 cr.)  
MENG 307 (5 cr.)  
PHYS 162 (1 cr.)

Q7

CHEM 171 (4 cr.)  
CHEM 171L (1 cr.)  
MATH 241 (5 cr.)  
MENG 241 (4 cr.)  
MENG 242 (4 cr.)

Third Year

Q9

BACR (5 cr.)  
MENG 300 (5 cr.)  
MENG 380 (5 cr.)

Q10

BACR (5 cr.)  
MENG 385 (5 cr.)  
MENG 386 (5 cr.)

Q11

MENG 353 (5 cr.)  
MENG 382 (5 cr.)  
MNTC 301 (5 cr.)

Fourth Year

Q13

METC 456 (2 cr.)  
MENG 405 (5 cr.)  
MENG 452 (2 cr.)  
TECH 393 (4 cr.)

Q14

Required track elective (see  
Required track elective (see  
MENG 412 (2 cr.)  
MENG 490A (2 cr.)  
MENG 493 (1 cr.)

Q15

BACR (5 cr.)  
Required elective (see catalo  
Required track elective (see  
MENG 490B (3 cr.)

Listed is a Sample Four Year Plan. Individual plans will vary based on placement test scores and course availability.

