

Mechanical Engineering and Physics

Department Information

- **Department Web Site:**
www.ndsu.edu/me/ (<http://www.ndsu.edu/me/>)
- **Credential Offered:**
B.S.M.E.
- **Official Program Curriculum:**
catalog.ndsu.edu/undergraduate/program-curriculum/mechanical-engineering-physics/ (<http://catalog.ndsu.edu/undergraduate/program-curriculum/mechanical-engineering-physics/>)

Engineering and physics are closely related disciplines. Mechanical engineering combines engineering physics and applied mathematics with materials science to design mechanical systems and novel materials. It requires knowledge of core areas of physics, such as mechanics, thermodynamics, theory of elasticity, electricity and magnetism. Modern materials science requires understanding of quantum physics. Therefore, the demand is growing for engineers with multidisciplinary training that includes both fundamental knowledge of physics and practical problem-solving skills.

The Mechanical Engineering and Physics double major program is designed to allow students to complete the core requirements of both majors in a four-year degree. Graduates of the program will have a unique background qualifying them to work in industry or to pursue graduate studies in engineering, physics or related fields of science and technology. One degree is awarded for this major but both mechanical engineering and physics majors are listed under the Bachelor of Mechanical Engineering Degree (B.S.M.E) on the transcript.