The graduate program in mechanical engineering is designed to offer a choice in curriculum depending upon career objectives. Students interested in leading edge research, teaching, creating new knowledge, or some combination of those activities may follow the Master of Science and Doctor of Philosophy route. Those interested in practicing engineering at an advanced level in government or industry may pursue the Master of Engineering in Mechanical Engineering. This degree is offered in those areas of mechanical engineering which have a prescribed plan of study on file in the department. Courses are provided to enable each student to tailor an individual program consistent with a degree choice.

Each mechanical engineering graduate course is designed to provide a clear presentation of the underlying principles and theories essential to an understanding of the subject. Analytical and experimental techniques are described when required to apply the subject material to modern problems facing the engineers of today. In many cases, the course material supplements active research in mechanical engineering areas currently conducted at Texas A&M and other prominent research centers around the world. Active research facilities are available for advanced manufacturing, biomechanics, design, plastics engineering, artificial intelligence, robotics, non-destructive testing, fracture testing, metallurgical studies, experimental stress analysis, vibrations and rotating machinery, turbomachinery, fluid dynamics, power generation, combustion, in situ lignite gasification, heat transfer, energy management, corrosion, solar energy and wind tunnel studies.

There is no foreign language requirement for the PhD program in mechanical engineering. Each student, with the advice of his or her chosen advisory committee, selects courses to develop a strength in an area of specialization composed of the following mechanical engineering subgroups: thermal science, fluid mechanics, solid mechanics, materials science and mechanical systems.

Faculty

Allaire, Douglas L, Assistant Professor
Mechanical Engineering
PHD, MASSACHUSETTS INSTITUTE OF TECHNOLOGY, 2009

Alvarado, Jorge L, Professor (courtesy appointment)
Mechanical Engineering
PHD, University of Illinois, 2004

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Mechanical Engineering
PHD, University of Malaya, 2017
PHD, University of Malaya, 2015

Anand, Nagamangala, Professor
Mechanical Engineering
PHD, Purdue University, 1983

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Mechanical Engineering
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Mechanical Engineering
PHD, Wichita State University, 2002

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PHD, Texas A&M, 1990

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Gonezen, Sevan, Assistant Professor
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PHD, Rensselaer Polytechnic Institute, 2011

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Mechanical Engineering
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Mechanical Engineering
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Hogan, Harry A, Professor
Mechanical Engineering
PHD, Texas A&M University, 1984

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Mechanical Engineering
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Hubbard Jr, James, Professor
Mechanical Engineering
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PHD, Virginia Tech, 2012

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PHD, University of California, Berkeley, 2006

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Wright, Lesley M, Associate Professor  
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PHD, Texas A&M University, College Station, 2006

Yu, Choongho, Associate Professor  
Mechanical Engineering  
PHD, University of Texas - Austin, 2004

Zambrano-Roman, Byron Alfonso, Research Assistant Professor  
Mechanical Engineering  
PHD, Michigan State University, 2017

Zhang, Xudong, Professor (courtesy appointment)  
Mechanical Engineering  
PHD, University of Michigan Ann Arbor, 1997

**Masters**

- Master of Engineering in Mechanical Engineering (http://catalog.tamu.edu/graduate/colleges-schools-interdisciplinary/engineering/mechanical/meng)
- Master of Science in Mechanical Engineering (http://catalog.tamu.edu/graduate/colleges-schools-interdisciplinary/engineering/mechanical/ms)

**Doctoral**

- Doctor of Philosophy in Mechanical Engineering (http://catalog.tamu.edu/graduate/colleges-schools-interdisciplinary/engineering/mechanical/phd)