The Department of Materials Science and Engineering curriculum is designed to provide advanced training for careers in the rapidly growing materials industry, national laboratories and academic (research and teaching) environments. The curriculum consists of core courses and technical electives, both of which are designed to complement practical application with a strong foundation of underlying theory. Research thrusts include advanced structural materials; materials for extreme environments; nanostructured materials, including thin films; multifunctional materials and composites; corrosion; polymers, including composites and nanocomposites; ceramics; computational materials science and engineering; and energy materials.

To review additional courses in the MSEN curriculum, refer to Designated Electives (https://engineering.tamu.edu/materials/academics/designated-electives).

Faculty

Akbulut, Mustafa, Associate Professor
Materials Science & Engr
PHD, University of California, Santa Barbara, 2007

Alge, Daniel L, Assistant Professor
Materials Science & Engr
PHD, Purdue University, 2010

Arroyave, Raymundo, Professor
Materials Science & Engr
PHD, Massachusetts Inst of Technology, 2004

Asadi, Amir, Assistant Professor
Materials Science & Engr
PHD, University of Manitoba, 2013

Atli, Kadri Can, Research Assistant Professor
Materials Science & Engr
PHD, Texas A&M University, 2011

Balbuena, Perla B, Professor
Materials Science & Engr
PHD, University of Texas, 1996

Banerjee, Sarbajit, Professor
Materials Science & Engr
PHD, State University of New York at Stony Brook, 2004

Batteas, James D, Professor
Materials Science & Engr
PHD, University of California, Berkeley, 1995

Bazzi, Hassan, Professor
Materials Science & Engr
PHD, McGill University, 2003

Benzeraga, Amine A, Professor
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Cagin, Tahir, Professor
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PHD, Clemson University, 1988

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PHD, University of Manchester Institute of Science and Technology, 2002

Castaneda-Lopez, Homero, Associate Professor
Materials Science & Engr
PHD, Penn State University, 2001

Cheng, Zheng Dong, Professor
Materials Science & Engr
PHD, Princeton University, 1999

Creasy, Terry S, Associate Professor
Materials Science & Engr
PHD, University of Delaware, 1997

Demkowicz, Michal J, Associate Professor
Materials Science & Engr
PHD, Massachusetts Institute of Technology, 2005

Elabd, Yossef A, Professor
Materials Science & Engr
PHD, Johns Hopkins University, 2001

Elwany, Alaa Mohamed, Assistant Professor
Materials Science & Engr
PHD, Georgia Institute of Technology, 2009

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PHD, Northwestern University, 2010

Gaharwar, Akhilesh K, Assistant Professor
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PHD, Purdue University, 2011

Grasley, Zachary C, Professor
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PHD, University of Illinois Urbana Champaign, 2006

Green, Micah, Associate Professor
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PHD, Massachusetts Institute of Technology, 2007

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Materials Science & Engr
PHD, University of Minnesota, 2001

Grunlan, Melissa A, Professor
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PHD, University of South Carolina, 2004

Guo, Bing, Assistant Professor
Materials Science & Engr
PHD, Tsinghua University, China, 1998
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PHD, Texas Tech University, 2003

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Materials Science & Engr
PHD, University of Wisconsin - madison, 1977

Hemmer, Philip R, Professor
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PHD, University of Minnesota, 2004

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PHD, Cornell University, 2002

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PHD, Georgia Institute of Technology, 2007

Karaman, Ibrahim, Professor
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PHD, University of Birmingham, 2010

Kuo, Yue, Associate Professor
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PHD, Columbia University, 1980

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PHD, Lehigh University, 1986

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Materials Science & Engr
PHD, Ecole Nationale de Mécanique et d'Aérotechnique, France, 2013

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Materials Science & Engr
PHD, Stevens Institute of Technology, 1992

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Materials Science & Engr
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Lutkenhaus, Jodie, Associate Professor
Materials Science & Engr
PHD, University of Notre Dame, 2003

Ma, Chao, Assistant Professor
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PHD, University of California, 2015

Madsen, Christi K, Professor
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PHD, Rutgers State University of New Jersey, 1996

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PHD, University of Michigan, 2010

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McShane II, Michael J, Professor
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Naraghi, Mohammad, Assistant Professor
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PHD, University of Illinois at Urbana Champaign, 2009

Naugle, Donald G, Professor
Materials Science & Engr
PHD, Texas A&M University, 1965

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Materials Science & Engr
PHD, Harvard University, 1971

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PHD, Texas Tech University, 2008

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PHD, Stanford University, 1979

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PHD, University of Alabama at Huntsville, 1974

Ross Jr, Joseph H, Professor  
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PHD, University of Illinois at Urbana-Champaign, 1986

Seminario, Jorge M, Professor  
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PHD, Southern Illinois University Carbondale, 1987

Shamberger, Patrick J, Assistant Professor  
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PHD, University of Washington, 2010

Shao, Lin, Professor  
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Su, Hung-Jue, Professor  
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PHD, University of Michigan - Ann Arbor, 1988

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PHD, Lomonosov Moscow State University, 1989

Talreja, Ramesh R, Professor  
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PHD, The Technical University of Denmark, 1974

Teizer, Winfried, Associate Professor  
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PHD, University of Massachusetts - Amherst, 1998

Thomas, Edwin L, Visiting Professor  
Materials Science & Engr  
PHD, Cornell, 2018

Vaddiraju, Sreeram, Associate Professor  
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PHD, University of Louisville, 2006

Wang, Jyhwen, Professor  
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PHD, Northwestern University, 1991

Wang, Shiren, Associate Professor  
Materials Science & Engr  
PHD, Florida State University, 2006

Whitcomb, John D, Professor  
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PHD, Virginia Tech, 1988

Wilkerson, Justin, Assistant Professor  
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Wong, Zi Jing, Assistant Professor  
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Wooley, Karen L, Professor  
Materials Science & Engr  
PHD, Cornell University, 1993

Wu, Wenhao, Associate Professor  
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PHD, University of Chicago, 1992

Xie, Yu Xuan, Assistant Professor  
Materials Science & Engr  
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Yu, Choongho, Associate Professor  
Materials Science & Engr  
PHD, University of Texas - Austin, 2004

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Materials Science & Engr  
PHD, Texas A&M University, 2000

**Masters**

- Master of Engineering in Materials Science and Engineering (http://catalog.tamu.edu/graduate/colleges-schools-interdisciplinary/engineering/materials-science/meng)
- Master of Science in Materials Science and Engineering (http://catalog.tamu.edu/graduate/colleges-schools-interdisciplinary/engineering/materials-science/ms)

**Doctoral**

- Doctor of Philosophy in Materials Science and Engineering (http://catalog.tamu.edu/graduate/colleges-schools-interdisciplinary/engineering/materials-science/phd)

**Certificates**