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

Benzerga, Amine A, Professor  
Materials Science & Engr  

Cagin, Tahir, Professor  
Materials Science & Engr  
PHD, Clemson University, 1988

Case, Raymundo P, Professor of the Practice  
Materials Science & Engr  
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

Fang, Lei, Assistant Professor  
Materials Science & Engr  
PHD, Northwestern University, 2010

Gaharwar, Akhilesh K, Assistant Professor  
Materials Science & Engr  
PHD, Purdue University, 2011

Grasley, Zachary C, Professor  
Materials Science & Engr  
PHD, University of Illinois Urbana Champaign, 2006

Green, Micah, Associate Professor  
Materials Science & Engr  
PHD, Massachusetts Institute of Technology, 2007

Grunlan, Jaime C, Professor  
Materials Science & Engr  
PHD, University of Minnesota, 2001

Grunlan, Melissa A, Professor  
Materials Science & Engr  
PHD, University of South Carolina, 2004

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

Hartwig, Karl T, Emeritus Professor
Materials Science & Engr
PHD, University of Wisconsin - madison, 1977

Hemmer, Philip R, Professor
Materials Science & Engr
PHD, Massachusetts Inst of Technology, 1984

Hipwell, M Cynthia, TEES Eminent Professor
Materials Science & Engr
PHD, University of California-Berkeley, 1996

Hwang, Wonmuk, Associate Professor
Materials Science & Engr
PHD, Boston University, 2001

Jeong, Hae-Kwon, Associate Professor
Materials Science & Engr
PHD, University of Minnesota, 2004

Kameoka, Jun, Professor
Materials Science & Engr
PHD, Cornell University, 2002

Kane, Matthew H, Associate Professor
Materials Science & Engr
PHD, Georgia Institute of Technology, 2007

Karaman, Ibrahim, Professor
Materials Science & Engr
PHD, University of Illinois - Urbana-Champaign, 2000

Kuo, Chun Hsin, TEES Associate Research Scientist
Materials Science & Engr
PHD, University of Birmingham, 2010

Kuo, Yue, Associate Professor
Materials Science & Engr
PHD, Columbia University, 1980

Kuttolamadom, Mathew A, Assistant Professor
Materials Science & Engr
PHD, Clemson University, 2012

Lagoudas, Dimitris C, Professor
Materials Science & Engr
PHD, Lehigh University, 1986

Le Graverend, Jean-Briac B, Associate Professor
Materials Science & Engr
PHD, Ecole Nationale de Mécanique et d’Aérotechnique, France, 2013

Liang, Hong, Professor
Materials Science & Engr
PHD, Stevens Institute of Technology, 1992

Lin, Paotai, Assistant Professor
Materials Science & Engr
PHD, Northwestern University, 2009

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

Ma, Chao, Assistant Professor
Materials Science & Engr
PHD, University of California, 2015

Madsen, Christi K, Professor
Materials Science & Engr
PHD, Rutgers State University of New Jersey, 1996

Mansoor, Bilal, Assistant Professor
Materials Science & Engr
PHD, University of Michigan, 2010

McDeavitt, Sean M, Associate Professor
Materials Science & Engr
PHD, Purdue University, 1992

McShane II, Michael J, Professor
Materials Science & Engr
PHD, Texas A&M University, 1999

Michaudel, Quentin, Assistant Professor
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PHD, The Scripps Research Institute, 2015

Naraghi, Mohammad, Assistant Professor
Materials Science & Engr
PHD, University of Illinois at Urbana Champaign, 2009

Naugle, Donald G, Professor
Materials Science & Engr
PHD, Texas A&M University, 1966

Needleman, Alan, Distinguished Professor
Materials Science & Engr
PHD, Harvard University, 1971

Nyakiti, Luke O, Assistant Professor
Materials Science & Engr
PHD, Texas Tech University, 2008

Ozmetin, Ali E, Research Assistant Professor
Materials Science & Engr
PHD, Texas A&M University, 2009

Pharr IV, George M, Professor
Materials Science & Engr
PHD, Stanford University, 1979

Pharr, George, Assistant Professor
Materials Science & Engr
PHD, Harvard University, 2014

Qian, Xiaofeng, Assistant Professor
Materials Science & Engr
PHD, Massachusetts Institute of Technology, 2008

Radovic, Miladin, Professor
Materials Science & Engr
PHD, Drexel University, 2001
Reddy, Junuthula, Professor
Materials Science & Engr
PHD, University of Alabama at Huntsville, 1974

Ross Jr, Joseph H, Professor
Materials Science & Engr
PHD, University of Illinois at Urbana-Champaign, 1986

Seminario, Jorge M, Professor
Materials Science & Engr
PHD, Southern Illinois University Carbondale, 1987

Shamberger, Patrick J, Assistant Professor
Materials Science & Engr
PHD, University of Washington, 2010

Shao, Lin, Professor
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PHD, University of Houston, 2001

Sheldon, Matthew T, Assistant Professor
Materials Science & Engr
PHD, University of California, Berkeley, 2010

Srivastava, Ankit, Assistant Professor
Materials Science & Engr
PHD, University of North Texas, 2013

Su, Hung-Jue, Professor
Materials Science & Engr
PHD, University of Michigan - Ann Arbor, 1988

Sukhishvili, Svetlana A, Professor
Materials Science & Engr
PHD, Lomonosov Moscow State University, 1989

Talreja, Ramesh R, Professor
Materials Science & Engr
PHD, The Technical University of Denmark, 1974

Teizer, Winfried, Associate Professor
Materials Science & Engr
PHD, University of Massachusetts - Amherst, 1998

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

Vaddiraju, Sreeram, Associate Professor
Materials Science & Engr
PHD, University of Louisville, 2006

Wang, Jyhwen, Professor
Materials Science & Engr
PHD, Northwestern University, 1991

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

Whitcomb, John D, Professor
Materials Science & Engr
PHD, Virginia Tech, 1988

Wilkerson, Justin, Assistant Professor
Materials Science & Engr
PHD, Johns Hopkins University, 2014

Wong, Zi Jing, Assistant Professor
Materials Science & Engr
PHD, University of California, Berkeley, 2015

Wooley, Karen L, Professor
Materials Science & Engr
PHD, Cornell University, 1993

Wu, Wenhao, Associate Professor
Materials Science & Engr
PHD, University of Chicago, 1992

Xie, Yu Xuan, Assistant Professor
Materials Science & Engr
PHD, University of Sydney, 2013

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

Zhou, Hongcai J, Professor
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
