Aerospace Engineering is a complex, rapidly changing field that includes aerodynamics, structures and materials, propulsion, dynamics and control, and astrodynamics. The primary application of Aerospace Engineering is to design and develop flight vehicles, such as aircraft, missiles, spacecraft and satellites. Aerospace engineering is also important and applicable to other vehicles and systems, such as rotorcraft, submarines, automobiles, wind turbines, advanced robotics, re-entry vehicles, exotic materials and computational simulations.

The mission of the Aerospace Engineering program is

1. to provide a quality undergraduate and graduate aerospace engineering education.
2. to advance the engineering and science knowledge base through research.
3. to assist industry in technical applications and innovations.
4. to serve the aerospace engineering profession through leadership in these areas.

To achieve this mission, the educational objectives established by the Aerospace Engineering undergraduate program are to produce graduates whose expected accomplishments within three to five years of graduation

1. to have successful careers in industry, private practice, or government, or will have pursued advanced graduate studies.
2. to be skilled practitioners who apply their knowledge and skills to solve relevant engineering problems in the aerospace or a related profession.
3. to be life-long learners, keep abreast of developments in aerospace or related technologies, and to be leaders in their professional group.

To carry out these educational objectives, the goals of the program are

1. using a high quality faculty, to provide a comprehensive aerospace engineering education that provides students with the fundamental knowledge and skills necessary for the design, analysis and advancement of aircraft, spacecraft and other high technology complex systems; and
2. to prepare students for the aerospace engineering profession and related fields by developing the attributes needed, so that they can contribute successfully to society and to the engineering profession now and in the future.

The Department offers a Bachelor of Science in Aerospace Engineering with Honors degree option. This option was proposed by our students and implemented for our students. Very few programs across the country offer this type of experience within Aerospace Engineering. Students in this program are part of an honors community and are provided with the opportunity to enhance their learning experience through one-on-one research with a faculty mentor, introduction to advanced aerospace theories, and much more. The Department also offers a Fast Track program, which is tailored for high-achieving undergraduate students who wish to extend their knowledge and gain an edge by earning a Master of Engineering (ME) degree. Fast Track allows qualified students to earn up to nine hours of credit toward their Aerospace Engineering undergraduate and graduate degrees. Consequently, through Fast Track a student can earn a ME degree in two semesters beyond their undergraduate degree.

Laboratories supplement theoretical studies in the major disciplines in the Department. Numerous wind tunnels for low-speed and supersonic aerodynamic studies, a jet engine test facility, a flight simulator, a satellite laboratory with Integrated Concurrent Engineering Capability, a robotics laboratory, and state-of-the-art materials and structures testing equipment are available, equipped with modern instrumentation. The Department and the University also provide an extensive array of computing resources.

Students are encouraged to enrich their undergraduate experience through a variety of ways in the Department, including co-op and internship positions, student competition design projects, and undergraduate research. In addition, students have the opportunity to study abroad or participate in an international exchange program.

The Bachelor of Science in Aerospace Engineering degree is accredited by the Engineering Accreditation Commission of ABET, www.abet.org. Before commencing course work in Aerospace Engineering, students must be admitted to the major or have the approval of the Department.

The Department also offers programs of study leading to the MEN, MS, and PhD degrees (see the Texas A&M University Graduate and Professional Catalog).

**Faculty**

Alfriend III, Kyle T, University Distinguished Professor Aerospace Engineering
PHD, Virginia Polytechnic Institute and State University, 1967

Andrienko, Daniil Aleksandrovich, Assistant Professor Aerospace Engineering
PHD, Wright State University, 2014
PHD, Moscow Institute of Physics and Technology, 2013

Benzerga, Amine A, Professor Aerospace Engineering

Bhattacharya, Raktim, Professor Aerospace Engineering
PHD, University of Minnesota, 2003

Bowersox, Rodney D, Professor Aerospace Engineering
PHD, Virginia Tech, 1992

Boyd, James G, Associate Professor Aerospace Engineering
PHD, Texas A&M University, 1994

Chakravorty, Suman, Professor Aerospace Engineering
PHD, University of Michigan, 2004

Chamitoff, Gregory E, Professor of the Practice Aerospace Engineering
PHD, Massachusetts Institute of Technology, 1992

Cizmas, Paul G, Professor Aerospace Engineering
PHD, Duke University, 1995
Cruzado Garcia, Aitor, Lecturer  
Aerospace Engineering  
PHD, Mondragon University, 2013

Currie-Gregg, Nancy, Professor of the Practice  
Aerospace Engineering  
PHD, University of Houston, 1997

DeMars, Kyle, Associate Professor  
Aerospace Engineering  
PHD, University of Texas, 2010

Diaz Artilles, Ana, Assistant Professor  
Aerospace Engineering  
PHD, Massachusetts Institute of Technology, 2015

Donzis, Diego A, Associate Professor  
Aerospace Engineering  
PHD, Georgia Institute of Technology, 2007

Dunbar, Bonnie Jeanne, Professor  
Aerospace Engineering  
PHD, University of Houston, 1983

Girimaji, Sharath S, Professor  
Aerospace Engineering  
PHD, Cornell University, 1990

Hartl, Darren J, Associate Professor  
Aerospace Engineering  
PHD, Texas A&M University, 2009

Hurtado, John E, Professor  
Aerospace Engineering  
PHD, Texas A&M University, 1995

Jameson, Antony, Professor  
Aerospace Engineering  
PHD, University of Cambridge, 1963

Junkins, John L, Distinguished Professor and Regents Professor  
Aerospace Engineering  
PHD, University of California at Los Angeles, 1969

Karaman, Ibrahim, Professor  
Aerospace Engineering  
PHD, University of Illinois at Urbana-Champaign, 2000

Karpetis, Adonios N, Associate Professor  
Aerospace Engineering  
PHD, Yale University, 1998

Kinra, Vikram K, Professor  
Aerospace Engineering  
PHD, Brown University, 1975

Kulatilaka, Waruna D, Professor  
Aerospace Engineering  
DEN, Purdue University, 2006

Lagoudas, Dimitris C, University Distinguished Professor  
Aerospace Engineering  
PHD, Lehigh University, 1986

Langari, Gholamreza, Professor  
Aerospace Engineering  
PHD, University of California at Berkeley, 1991

Le Graverend, Jean-Briac B, Associate Professor  
Aerospace Engineering  
PHD, Ecole Nationale de Mécanique et d'Aérotechnique, France, 2013

Limbach, Christopher M, Assistant Professor  
Aerospace Engineering  
PHD, Princeton University, 2015

Majji, Manoranjan, Associate Professor  
Aerospace Engineering  
PHD, Texas A&M University, 2009

Miles, Richard B, University Distinguished Professor  
Aerospace Engineering  
PHD, Stanford University, 1972

Moble, Benedict, Associate Professor  
Aerospace Engineering  
PHD, University of Maryland, 2010

Mortari, Daniele, Professor  
Aerospace Engineering  
PHD, University La Sapienza of Rome, 1980

Narahgi, Mohammad, Associate Professor  
Aerospace Engineering  
PHD, University of Illinois at Urbana Champaign, 2009

Oran, Elaine, Professor  
Aerospace Engineering  
PHD, Yale University, 1972

Reddy, Junuthula N, Distinguished Professor and Regents Professor  
Aerospace Engineering  
PHD, University of Alabama at Huntsville, 1974

Reed, Helen L, University Distinguished Professor and Regents Professor  
Aerospace Engineering  
PHD, Virginia Polytechnic Institute & State University, 1981

Richard, Jacques C, Senior Lecturer  
Aerospace Engineering  
PHD, Rensselaer University, 1989

Savic, William S, Distinguished Professor  
Aerospace Engineering  
PHD, Illinois Institute of Technology, 1968

Scully, Marlan O, Distinguished Professor  
Aerospace Engineering  
PHD, Yale University, 1966

Selva Valero, Daniel, Assistant Professor  
Aerospace Engineering  
PHD, Massachusetts Institute of Technology, 2012

Shryock, Kristi J, Associate Professor  
Aerospace Engineering  
PHD, Texas A&M University, 2011
Skelton, Robert E, Professor
Aerospace Engineering
PHD, University of California, 1976

Strganac, Thomas W, Professor
Aerospace Engineering
PHD, Virginia Polytechnic Institute & State University, 1987
PHD, Virginia Tech, 1987

Strouboulis, Theofanis, Professor
Aerospace Engineering
PHD, University of Texas, 1986

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

Tichenor, Nathan R, Research Assistant Professor
Aerospace Engineering
PHD, Texas A&M University, 2010

Tropina, Albina, Research Professor
Aerospace Engineering
PHD, Kyiv Aviation University, 2011
PHD, V.N. Karazin Kharkiv National University, 1999

Vadali, Srinivas R, Professor
Aerospace Engineering
PHD, Virginia Tech, 1983

Valasek, John L, Professor
Aerospace Engineering
PHD, University of Kansas, 1995

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

White, Edward B, Professor
Aerospace Engineering
PHD, Arizona State University, 2000

Wong, Zi Jing, Assistant Professor
Aerospace Engineering
PHD, University of California at Berkeley, 2015

**Majors**

- Bachelor of Science in Aerospace Engineering (http://catalog.tamu.edu/undergraduate/engineering/aerospace/bs/)

**Minors**

- Aerospace Engineering Minor (http://catalog.tamu.edu/undergraduate/engineering/aerospace/minor/)