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 students with a quality undergraduate and graduate education for the State of Texas and the nation through an innovative educational program;
2. to advance the science and aerospace engineering knowledge base through basic and applied research, inventions, technologies and solutions to aerospace problems; and
3. to serve the aerospace engineering profession by preparing leaders for leadership in the creation, design and operation of the next generation aerospace systems.

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 are

1. to have successful careers in industry, private practice, or government, or 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; and
3. to function well in teams, communicate well, continue enhancing their professional competence, and understand the impact of engineering solutions.

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 develops in students the fundamental skills necessary for the design, synthesis, analysis and research development of aircraft, spacecraft and other high technology flight 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. You will be part of an honors community and be provided with the opportunity to enhance your 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, numerous research aircraft, 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 even undergraduate research. In addition, students have the opportunity to study abroad or participate in an international exchange program.

The Department also offers programs of study leading to the ME, MS, and PhD degrees (see the Texas A&M University Graduate and Professional Catalog). 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 the major, students must be admitted to the major or have the approval of the Department.

**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

Benzenga, Amine A, Professor
Aerospace Engineering

Bhattacharya, Raktim, Associate 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, Associate 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 García, Aitor, Lecturer
Aerospace Engineering
PHD, Mondragon University, 2013

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

Díaz 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

Gerakis, Alexandros, Assistant Professor
Aerospace Engineering
PHD, University College London, 2014

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

Hartl, Darren J, Assistant 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
Aerospace Engineering
PHD, University of California, Los Angeles, 1969

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

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

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

Kulatiuru, Waruna D, Associate Professor
Aerospace Engineering
PHD, Purdue University, 2006

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

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

Le Graverend, Jean-Briac B, Assistant 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, Assistant Professor
Aerospace Engineering
PHD, Texas A&M University, 2009

Miles, Richard B, 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

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

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

Poludnenko, Oleksiy Y, Associate Professor
Aerospace Engineering
PHD, University of Rochester, 2004

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

Reed, Helen L, Professor
Aerospace Engineering
PHD, Virginia Tech, 1981

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

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

Scully, Marlan O, University 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 Tech, 1987

Strouboulis, Theofanis, Professor
Aerospace Engineering
PHD, University of Texas - Austin, 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, 2012
PHD, V.N. Karazin Kharkiv National University, 2000

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, 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/)