

Master of Engineering in Aerospace Engineering

Aerospace Engineering

The aerospace engineering discipline involves the design, production, operation, and support of aircraft and spacecraft. Aerospace engineers solve problems, design aircraft and spacecraft, conduct research, and improve processes for the aerospace industry.

Mission

KU Aerospace Engineering is an international leader in aerospace education and is committed to developing a global community for students, educators, and researchers by strategically aligning teaching, research, and service missions. A world-class graduate and undergraduate education focused on designing, simulating, building, testing, and flying aerospace vehicles is provided. The department invests in research infrastructure and chooses outstanding students who will work with faculty and staff to conduct basic and applied research of relevance to aerospace vehicles and systems. The department supports the aerospace profession by educating the public, by maintaining the KU aerospace short-course program, and by advising policy-makers in government, industry, and disciplinary professional organizations.

Educational Objectives

The Aerospace Engineering graduate program objective is that our graduates contribute to the aerospace profession, related fields, and other disciplines through skilled professional practice in industry, government, and/or academia. Within a few years after graduation, we expect that:

- Graduates are meaningfully employed or continuing graduate study in aerospace or other high technology fields, with the majority retained in aerospace or closely related engineering
- Graduates have a positive professional career path including promotions, leadership, and/or continued education
- Graduates recognize the value of their educational preparation for their current and future professional endeavors

Educational Outcomes

The Master of Engineering program in Aerospace Engineering (MEAE) is a program that emphasizes systems design and management skills and procedures. Our program is designed to achieve our objectives by establishing measurable learning outcomes which graduates of the program must demonstrate:

1. The ability to effectively communicate advanced aerospace engineering and management concepts in writing and orally at a professional level.
2. The ability to acquire new information to learn new concepts, build new skills, and engage in life-long learning.

Graduate Admission to the Department of Aerospace Engineering Application Requirements

In order for applications to be considered complete, the following materials must be submitted as part of the application (<https://gradapply.ku.edu/apply/>) by the posted deadline:

1. Official transcripts from each college attended. For processing purposes, you may attach scanned versions of official transcripts to your application. Documents labeled as unofficial or printouts from a student portal are NOT considered official copies.
 - a. *Transcripts that are in a language other than English must be accompanied by English translations.*
 - b. *If admitted to the program and accept the admission offer, you will be required to submit an official, final transcript that shows your degree has been conferred.*
2. Three letters of recommendation. Letters must be signed and on letterhead. Recommenders will receive instructions on how to submit their documents at the time the application is submitted.
3. Resume or CV
4. Statement of Objectives
5. Official GRE score report (optional but recommended)
6. Official TOEFL, IELTS, or PTE score report. Official reports are those sent directly to KU from the testing agency. (International students only)
7. Statement of Financial Resources (International students only)

** Please note: All application materials must be received before any kind of decision is made. Documentation sent in addition to that requested above is not required and may be destroyed. Do not send paper documents unless requested.*

Admissions Deadlines

Fall Admission:

- Priority Deadline: December 1
- Final Deadline: April 1

Spring Admission:

- Priority Deadline: September 1
- Final Deadline: December 1

Summer Admission:

- Final Deadline: April 1

For full consideration for fellowships, scholarships, and research/teaching assistantships, applications should be received by the priority deadline. Application materials should indicate an interest in financial assistance or research/teaching assistantships.

Application Fees

Domestic: \$65

International: \$85

Document Specifications

Letters of Recommendation

The letter of recommendation form should be on letterhead and signed. Recommenders will receive instructions on how to submit their documents at the time the application is submitted.

Proof of Finances

As a part of the application process, all international students must submit credible evidence of financial support for the first year of study. Further details and requirements for financial documentation can be found at this link (<https://iss.ku.edu/proof-finances/>).

Admissions Standards

Students who wish to apply for admission to the Aerospace Engineering graduate program must have, as a minimum, a BSAE degree or a BS degree in a closely-related field from a university or college with a program equivalent to the KU BSAE program. Students applying with either a BS degree from an engineering program that is not equivalent to the KU BSAE program or a BS degree from a non-aerospace engineering program may have to make up certain undergraduate AE courses at the discretion of the department graduate advisor. Such students will be admitted on probation until a plan of study for make-up courses is completed.

Regular Admission

Master's program regular admission requires an undergraduate GPA of at least a 3.0.

Doctoral program regular admission requires an undergraduate GPA of at least 3.0 and a GPA of at least 3.5 for courses taken as part of a master's program.

In exceptional cases, applicants with a GPA between 2.75-2.99 may be granted admission. Such students would be admitted as Aerospace Engineering Master of Engineering students. If approved by the student's graduate advisor and the departmental graduate advisor, the student may change to an alternate Aerospace Engineering degree program after successful completion of the first semester and receiving a minimum 3.0 GPA.

GRE Requirements

The GRE is not required, however, is strongly recommended. Preferred scores are a minimum of 50% on the Verbal and Analytical sections of the GRE and 85% on the Quantitative section.

English Proficiency Requirement

International students and students who indicated English as a second language, are required to show proof of English proficiency for admission purposes and must check in at the Applied English Center (<https://aec.ku.edu/>) (AEC) upon arrival on campus for orientation. This process serves to confirm each student's level of English proficiency and determine whether English courses will be included as a requirement of the student's academic program.

Refer to the University Policy (<http://policy.ku.edu/graduate-studies/english-proficiency-international-students/>) on English Proficiency Requirements for Admission to Graduate Study.

Funding

Scholarships/Fellowships - The Aerospace Engineering department nominates applicants for University and School of Engineering scholarships and fellowships based on academic merit and other selection criteria.

Graduate Teaching Assistantships (GTAs) - Teaching Assistantships are available and are awarded competitively based on academic qualifications through the department or school.

Graduate Research Assistantships (GRAs) - Students work with their potential academic advisor/mentor to obtain a funded position on a research project.

**Important note: acceptance into the graduate program DOES NOT guarantee financial aid. To be considered for financial aid, applications must be received by the priority deadline.*

Visit Us

The graduate program staff is happy to work with all prospective students in determining the fit between the student and the program. In order to determine this, we feel that visiting our campus in Lawrence is a very important step. In order to facilitate your visit to KU, there are two main options:

The first, and most preferred, option entails simply applying for admission to the program. All prospective students are welcome to attend the School of Engineering Open House. Eligible admitted students are invited to participate in Campus Visit Days in late February (prior to the fall semester of your intended matriculation). These organized campus visit opportunities will allow you to gather a great deal of first-hand information which we hope will help you in making a final decision about whether to attend KU.

The second option is to make arrangements to visit us on your own, outside of organized events. With early notification, we will do our best to work with you to provide information and schedule appointments with faculty when possible. Please contact us if you feel that this is the best option for you.

Contact Information

Please contact the AE Graduate Program Coordinator at aerohawk@ku.edu or (785) 864-2960, to schedule a visit or with questions about the application process.

**The University of Kansas
AE Graduate Program
1530 W. 15th Street
2120 Learned Hall
Lawrence, Kansas, 66045**

M.E. Degree Requirements

The Master of Engineering program in Aerospace Engineering (MEAE) is a program that emphasizes systems design and management skills and procedures.

General Description

The minimum course requirements for the M.E. degree are:

- At least 30 credit hours of graduate-level courses; which shall include either 3 or more credit hours in aerospace design or at least 3 and up to 6 semester hours of approved management courses.
- Students must take at least one semester of AE 690, Professional Development for Graduate Students.
- No more than two courses below the 700 level may be used to satisfy degree requirements, in addition to the required AE 690 course. All AE courses other than AE 690 must be 700 level and above.

Plan of Study

Each student selects or is assigned a faculty advisor in their first semester. Unlike the M.S. degree, the M.E. degree does not require a three-person committee. The student will work with their faculty advisor to develop a formal Plan of Study that includes a sequence of courses through the semester of graduation that are consistent with the student's academic background and identified degree goals. All plan of study changes in subsequent semesters are approved by the student's graduate advisor and the department graduate advisor. The Plan of Study also identifies the intended graduation semester.

Completion of MEAE

The MEAE degree does not require a full committee, only a graduate advisor. All plan of study changes are approved by the student's graduate advisor and the department graduate advisor.

Upon completion of all coursework, the student's plan of study must meet final approval and the student must complete the ME Completion Form and submit it to the AE graduate program manager.