

Unconditional Admission

Master's program

- Minimum undergraduate GPA of 3.0 in the last 60 hours of undergraduate work in an engineering discipline as calculated by the Graduate School.
- GRE - combined Verbal and Quantitative score greater than 1,100 and a Verbal score of 400 or better.
- Three letters of recommendation.
- A TOEFL score of 233 or better for international students whose native language is not English.

Doctoral program

- Minimum GPA of 3.4 in the last 60 hours taken in the major field of study of engineering or physical sciences as calculated by the Graduate School.
- GRE - combined Verbal and Quantitative score greater than 1,175 and a Verbal score of 400 or better.
- Three letters of recommendation.
- A TOEFL score of 233 or better for international students whose native language is not English.

Probationary admission

Master's program

- An applicant who meets any two of items 1, 2 and 3 listed above.
- A TOEFL score of 233 or better for international students whose native language is not English.

Doctoral program

- An applicant who meets any two of items 1, 2 and 3 listed above.
- A TOEFL score of 233 or better for international students whose native language is not English.

Provisional Admission

- An applicant unable to supply all required documents prior to the admission deadline, but who otherwise appears to meet admission requirements, may be granted provisional admission.

Deferral

If an applicant does not present adequate evidence of meeting admission requirement, the admission decision may be deferred until records are complete.

Denial

A candidate may be denied admission if he/she has less than satisfactory performance in two of the three admission criteria (excluding TOEFL).

I. Physical Science Foundation

Mathematics	Physics	Chemistry
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Math 1426 (Calculus I) Math 2325 (Calculus II) Math 2326 (Calculus III) Math 3319 (Diff. Eq. & Linear Algebra)	Phys 1443 (Gen. Phys.) Phys 1444 (Gen. Phys.)	CHEM 1301 (Gen. Chem.) CHEM 1302 (Gen. Chem.) CHEM 1284 (Gen Chem. lab)
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II. Transport and Conservation Principles

Solid Mechanics	Transport Phenomena	Electrical
CE 2312 (Statics/Dynamics)	MAE 3310 (Thermodynamics) <i>or</i> CHEM 3321 (Physical Chem.)	EE 2440 (Circuits I w/ Lab) EE 2446 (Circuits II w/ Lab)

III. Engineering, Measurement, Analysis and Computing

Measurement	Analysis	Computing
MAE 2381 (Experimental Methods & Measurements) MAE 3183 (Meas. Lab II)	MAE 2360 (Eng. Analysis I) <i>or</i> EE 1245 (Intro. To EE)	EE 1347 (Comp. solution for EE) <i>or</i> MAE 4340 (Software Eng. for MAE)

IV. Engineering Design Foundation (take any two courses, based on student interest and intended track of study in BME)

Bioinstrumentation Track		
Course Title	UTA Course Number	Offering Department
Electronic I	EE 2303	Electrical Engineering
Electronic II	EE 3444	Electrical Engineering
Digital Logic Circuits	CSE 2441	Computer Science & Engineering
Microprocessors <i>or</i> Embedded Computer Systems	EE 3310 – CSE 3442	Electrical Engineering – Computer Science & Engineering
Linear Systems	EE 3317	Electrical Engineering
Control Systems	EE 4314	Electrical Engineering
Digital Signal Processing <i>or</i> Introduction to Signal Processing	EE 4318 – CSE 4313	Electrical Engineering – Computer Science & Engineering
Microprocessor System Design Project	EE 4442	Electrical Engineering
Fundamentals of Telecommunications systems	EE 4330	Electrical Engineering

Control System Design Project	EE 4443	Electrical Engineering
Electronic System Design Project	EE 4446	Electrical Engineering
Real-Time Data Acquisition & Control Systems	CSE 4342	Computer Science & Engineering
Modeling and Simulation	CSE 4319	Computer Science & Engineering
Artificial Intelligence	CSE 4308	Computer Science & Engineering

Biomaterials and Tissue Engineering Track		
Course Title	UTA Course Number	Offering Department
Gen. Biochemistry I	CHEM 4311	Chemistry & Biochemistry
Cell and Molecular Biology	BIOL 1441	Biology
Cell Physiology	BIOL 3301	Biology
Basic Fluid Mechanics	CE 3305	Civil Engineering
Mechanics of Materials	CE 3311	Civil Engineering
Heat Transfer	MAE 3314	Mechanical & Aerospace Engineering
Materials Science	MAE 2321	Mechanical & Aerospace Engineering
Design Project I and II	MAE 4287 and 4288	Mechanical & Aerospace

Biomechanics Track		
Course Title	UTA Course Number	Offering Department
Fluid Mechanics I	MAE 2314	Mechanical & Aerospace
Heat Transfer	MAE 3314	Mechanical & Aerospace
Dynamics System Modeling & Simulation	MAE 3319	Mechanical & Aerospace
Solid Mechanics <i>or</i> Mechanics of Material	MAE 2312 – CE 3311	Mechanical & Aerospace – Civil and Environmental Eng.
Introduction to Automatic Control	MAE 4310	Mechanical & Aerospace
Control Systems Components	MAE 4312	Mechanical & Aerospace
Fluid Mechanics II	MAE 4313	Mechanical & Aerospace
Mechanical Vibrations	MAE 4314	Mechanical & Aerospace
Computer-Aided Design	MAE 4344	Mechanical & Aerospace
Introduction to Robotics	MAE 4345	Mechanical & Aerospace
Design Project I and II	MAE 4287 and MAE 4288	Mechanical & Aerospace

Imaging Track		
Course Title	UTA Course Number	Offering Department
Electronic I	EE 2303	Electrical Engineering
Electronic II	EE 3444	Electrical Engineering
Digital Logic Circuits	CSE 2441	Computer Science & Engineering
Computer Graphics	CSE 4303	Computer Science & Engineering
Modeling and Simulation	CSE 4319	Computer Science & Engineering
Real-time Data Acquisition and Control Systems	CSE 4342	Computer Science & Engineering
Electromagnetic Waves	EE 3305	Electrical Engineering
Electromagnetics II	EE 3308	Electrical Engineering
Applications of Electromagnetics	EE 3306	Electrical Engineering
Optical System Design Project	EE 4444	Electrical Engineering
Optics	PHYS 3445	Physics
Biosensors: General Biochemistry <i>or</i> Biochemical Genetics	CHEM 4311 – CHEM 4316	Chemistry and Biochemistry
Radio Frequency Circuit Design	EE 4339	Electrical Engineering
Microprocessors <i>or</i> Embedded Computer Systems	EE 3310 – CSE 3442	Electrical Engineering – Computer Science & Engineering
Linear Systems	EE 3317	Electrical Engineering
Control Systems	EE 4314	Electrical Engineering
Digital Signal Processing <i>or</i> Introduction to Signal Processing	EE 4318 – CSE 4313	Electrical Engineering – Computer Science & Engineering
Microprocessor System Design Project	EE 4442	Electrical Engineering
Fundamentals of Telecommunications systems	EE 4330	Electrical Engineering
Control System Design Project	EE 4443	Electrical Engineering
Electronic System Design Project	EE 4446	Electrical Engineering
Real-Time Data Acquisition & Control Systems	CSE 4342	Computer Science & Engineering
Modeling and Simulation	CSE 4319	Computer Science & Engineering
Artificial Intelligence	CSE 4308	Computer Science & Engineering