



The University of Texas at Austin

Chandra Department of Electrical
and Computer Engineering
Cockrell School of Engineering

TEXAS McCombs

CANFIELD
BUSINESS
HONORS

2024-2026 Undergraduate Catalog

Electrical & Computer Engineering Honors / Canfield Business Honors

Suggested Completion before college admission
Students may also complete PHY courses during summer semester between year 1 & 2

Suggested Arrangement of Courses

Fall 1
Spring

M 408C AP Differential & Integral Calculus	RHE 306 AP Rhetoric & Writing*	HIS AP US History*	GOV 310L AP American Government*	ECO 304K AP Intro to Microeconomics (SBS)	E 316 AP L,M,N or P Humanities Credit*
Students may also complete PHY courses during summer semester between year 1 & 2	PHY 303K AP Engineering Physics I	PHY 105M AP Laboratory for PHY 303K	PHY 303L AP Engineering Physics 2	PHY 105N AP Laboratory for PHY 303L	

Fall 2
Spring

ECE 302H Fall Only Introduction to Electrical Engineering Honors	ECE 306H Fall Only Introduction to Computing	M 408D M 408C	M 408C Fall Only Seq, Series & Multivariable Calculus	BA 101H Fall Only Professional Dev & Career Planning Honors	MAN 101H Fall Only Leadership & Innovation Honors	Wr BA 324H Fall Only Business Communication	
ECE 319H Spring Only Introduction to Embedded Systems	ECE 312H Spring Only Software Design & Implementation I	ECE 306H ECE 312H ECE 306H ECE 319H	ECE 306H ECE 312H ECE 306H ECE 319H	M 408D M 408C	MIS 301H Spring Only Intro to Information Tech Mgmt Honors	STA 301H Spring Only Intro to Data Science Honors	ECO 304L* AP Intro to Macroeconomics*

Fall 3
Spring

ECE 411H Fall Only Circuit Theory	ECE 313H Fall Only Linear Systems & Signals	M 340L M 408C	BAH 151H Fall Only Honors Lyceum	ACC 311H Fall Only Financial Accounting Honors	STA 235H Fall Only Data Science for Bus. Applications Honors	
ECE 351H Spring Only Probability / Random Processes	OM 235H Spring Only Operations Management Honors	ECE 302H, M 427J ECE 302H, M 427J	ACC 311H, BA 151H ACC 311H, BA 151H	DS 235H Spring Only Intro to Decision Science Honors	UGS 302/3 Spring Only First-Year Signature Course*	VAPA AP Fall Only Visual & Performing Arts*

Fall 4
Spring

Wr ECE 364D Fall Only Intro to Engineering Design	Advanced Tech Component	Advanced Tech Component Math	Advanced Tech Component	FIN 357H Fall Only Business Finance Honors	MAN 327H Fall Only Entrepreneurship & Innovation Honors
BA 324H Advanced Tech Component Lab see tech core packet for course list	Advanced Tech Component Lab	Advanced Tech Component	ACC 312H BA 324H P/S/A elective	ACC 312H, ACC 324H, STA 235H, DS 235H	ACC 312H, ACC 324H, STA 235H, DS 235H

ECE 464H Spring Only Senior Design Project
Varies

Legend

Flag	Semester
ECE ###	
Course Title	
Pre-Req	Co-Req

Pre-Requisite:
need credit for
(Grade of C- or better is required)

Co-Requisite:
need credit for
(Grade of C- or better is required)
OR registration for

Pre-requisites and co-requisites are strictly enforced.

AP: AP Exam scores are eligible for credit.
Visit bit.ly/UT-AP-IB-Scores

Core Curriculum

*Includes UGS 303 and various other courses common across all UT Austin degree plans.

Students receive 2 WR credits toward the core curriculum requirements from ECE 333T and ECE 364D.

Visit bit.ly/UTCoreList for the full list of requirements and accepted courses

Advanced Technical Component

7 courses*

*ECB students only

including an advanced math course & an advanced lab

Visit bit.ly/UTECE-techcores for the full list of advanced technical components & course sequences

Honors Requirements

16 hours

ECB students must complete 16 total hours of ECE Honors courses (such as ECE 302H, 319H, etc). Students may substitute up to 2 graduate-level advanced technical component electives taken for undergraduate credit to reach the 16 hour total.

Courses must be approved by ECE Honors Advising

**3.3 Engineering GPA
3.25 Business GPA**

Advanced Technical Components

for Electrical & Computer Engineering Honors, Canfield Business Honors students

All ECE students specialize in one of the below areas starting in their junior year.

ECB students take 7 courses in their advanced technical component (or tech core).

You can declare as early as your first year and are welcome to change your mind!

Visit bit.ly/UTECE-techcores for the full list of advanced tech components in the Tech Core Packet and how to declare.

Don't forget, all ECE students also have to take the "**Advanced technical elective**" (see flowchart), which is an additional elective from any area below.

Electrical Engineering

<p>Communications, Signal Processing, Networks & Systems</p> <p>Required Math: M 427L</p> <p>3 Required ECE Courses:</p> <ul style="list-style-type: none">- ECE 351M <u>or</u> ECE 325- ECE 362K <u>or</u> ECE 371Q <u>or</u> ECE 360K- ECE 445S (LAB) <u>or</u> ECE 471C (LAB) <p style="text-align: center;">+</p> <p>3 Technical Electives</p>	<p>Electronics & Integrated Circuits</p> <p>Required Math: M 427L</p> <p>4 Required ECE Courses:</p> <ul style="list-style-type: none">- ECE 325- ECE 339- ECE 438 (LAB)- ECE 316 <p style="text-align: center;">+</p> <p>2 Technical Electives</p>
<p>Energy Systems & Renewable Energy</p> <p>Required Math: M 427L</p> <p>4 Required ECE Courses:</p> <ul style="list-style-type: none">- ECE 325- ECE 368L <u>or</u> ECE 369- ECE 462L (LAB)- ECE362K <p style="text-align: center;">+</p> <p>2 Technical Electives</p>	<p>Fields, Waves & Electromagnetic Systems</p> <p>Required Math: M 427L</p> <p>4 Required ECE Courses:</p> <ul style="list-style-type: none">- ECE 325- ECE 339- ECE 438(LAB) <u>or</u> ECE 462L (LAB) <u>or</u> ECE 368L/A468L (LAB)- ECE 325K <u>or</u> ECE 363M <p style="text-align: center;">+</p> <p>2 Technical Electives</p>
	<p>Nanotechnology & Nanoelectronics</p> <p>Required Math: M 427L</p> <p>3 Required ECE Courses:</p> <ul style="list-style-type: none">- ECE 325- ECE 339- ECE 440 (LAB) <p style="text-align: center;">+</p> <p>+3 Technical Electives</p>

Computer Engineering

<p>Computer Architecture & Embedded Systems</p> <p>Required Math: M 325K</p> <p>4 Required ECE Courses:</p> <ul style="list-style-type: none">- ECE 316- ECE 460N- ECE 445L (LAB)- ECE 360C <p style="text-align: center;">+</p> <p>2 Technical Electives</p>	<p>Data Science & Information Processing</p> <p>Required Math: M 325K</p> <p>5 Required ECE Courses:</p> <ul style="list-style-type: none">- ECE 461P- ECE 360C- ECE 316 <u>or</u> ECE 445S <u>or</u> ECE471C- ECE 351M- ECE 460J (LAB) <p style="text-align: center;">+</p> <p>1 Technical Electives</p>	<p>Software Engineering & Design</p> <p>Required Math: M 325K</p> <p>4 Required ECE Courses:</p> <ul style="list-style-type: none">- ECE 422C- ECE 360C- ECE 461L (LAB)- ECE 316 <u>or</u> ECE 445L <p style="text-align: center;">+</p> <p>2 Technical Electives</p>
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Students are permitted to substitute graduate courses for undergraduate credit or other ECE courses for technical electives. Students must work with their faculty mentor and complete the ABET advising form to evaluate if the course will be accepted.

Approved graduate courses for undergraduate credit can also add to your honors hours total (see reverse). If you are missing more than 9 hours of honors credit, please schedule a meeting with an ECE advisor to discuss your academic plans.

See the Tech Core packet and the academic policies page for more details. <https://bit.ly/UTECE-Policies>