

2024-2026 Undergraduate Catalog
Electrical & Computer Engineering Honors / Canfield Business Honors

Suggested Arrangement of Courses

Suggested	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 L,M,N or P ^{AP} Humanities Credit*
	Students may also complete PHY courses during summer semester between year 1 & 2					
Fall	ECE 302H Introduction to Electrical Engineering Honors	ECE 306H Introduction to Computing	M 408D Seq. Series & Multivariable Calculus	BA 101H Professional Dev & Career Planning Honors	MAN 101H Leadership & Innovation Honors	BA 324H Business Communication
	M 408D	M 408C	M 408C			RHE 306 BA 101H
Spring	ECE 319H Introduction to Embedded Systems	ECE 312H Software Design & Implementation I	M 427J Differential Equations	MIS 301H Intro to Information Tech Mgmt Honors	STA 301H Intro to Data Science Honors	ECO 304L ^{AP} Intro to Macroeconomics*
	ECE 306H ECE 312H	ECE 306H ECE 319H	M 408D			*Can be taken during summer semester, must be complete by Fall of year 2
Fall	ECE 411H Circuit Theory	ECE 313H Linear Systems & Signals	M 340L Matrices & Matrix Calculations	BAH 151H Honors Lyceum	ACC 311H Financial Accounting Honors	STA 235H Data Science for Bus. Applications Honors
	ECE 302H, PHY 303K, PHY 105M	M 427J, PHY 303L, PHY 105N	ECE 302H, M 427J	M 340L	M 408C	BA 101H
Spring	ECE 351H Probability / Random Processes	O M 235H Operations Management Honors	ACC 312H Managerial Accounting Honors	DS 235H Intro to Decision Science Honors	UGS 302/3 First-Year Signature Course*	VAPA ^{AP} Visual & Performing Arts*
	M 427J	ECO 304K, BA 324H, STA 301H	ACC 311H, BA 151H	M 408D, STA 301H		
Fall	Advanced Tech Component	Advanced Tech Component Math	Advanced Tech Component	FIN 357H Business Finance Honors	MAN 327H Entrepreneurship & Innovation Honors	
				ECO 304K	ACC 312H, BA 324H, STA 235H, DS 235H	M 408D BA 324H
Spring	Advanced Tech Component Lab	Advanced Tech Component	MAN 336H Organizational Behavior Honors	P/S/A Elective Psychology/ Sociology/ Anthropology Elective*	MKT 337H Principles of Marketing Honors	
			ACC 312H	BA 324H, P/S/A elective	*statistics not accepted	BA 324H, ACC 312H, ECO 304L & K, STA 235H, DS 235H
Fall	ECE 364D Intro to Engineering Design	Advanced Tech Component	LEB 323H Business Law & Ethics Honors	GOV 312L/P American Government*	BA 353 Internship Credit (completed w/Summer prior)	
	BA 324H	Advanced Tech Component Lab: see tech core packet for course list	4th year, ACC 312H	BA 324H	BA 324H	
Spring	ECE 464H Senior Design Project	Advanced Technical Elective ECE upper division (3 hrs) or ECE 316	Advanced Tech Component	MAN 374H Gen. Mgmt & Strategy Honors	HIS US History*	
	ECE 364D & Advanced Tech Component Lab	Varies		4th year, FIN 357H, MAN 336H, MKT 337H	BA 353	

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

Communications, Signal Processing, Networks & Systems

Required Math:
M 427L

3 Required ECE Courses:

- ECE 351M or ECE 325
- ECE 362K or ECE 371Q or ECE 360K
- ECE 445S (LAB) or ECE 471C (LAB)

+

3 Technical Electives

Electronics & Integrated Circuits

Required Math:
M 427L

4 Required ECE Courses:

- ECE 325
- ECE 339
- ECE 438 (LAB)
- ECE 316

+

2 Technical Electives

Energy Systems & Renewable Energy

Required Math:
M 427L

4 Required ECE Courses:

- ECE 325
- ECE 368L or ECE 369
- ECE 462L (LAB)
- ECE362K

+

2 Technical Electives

Fields, Waves & Electromagnetic Systems

Required Math:
M 427L

4 Required ECE Courses:

- ECE 325
- ECE 339
- ECE 438(LAB) or ECE 462L (LAB)
or ECE 368L/468L (LAB)
- ECE 325K or ECE 363M

+

2 Technical Electives

Nanotechnology & Nanoelectronics

Required Math:
M 427L

3 Required ECE Courses:

- ECE 325
- ECE 339
- ECE 440 (LAB)

+

+3 Technical Electives

Computer Engineering

Computer Architecture & Embedded Systems

Required Math:
M 325K

4 Required ECE Courses:

- ECE 316
- ECE 460N
- ECE 445L (LAB)
- ECE 360C

+

2 Technical Electives

Data Science & Information Processing

Required Math:
M 325K

5 Required ECE Courses:

- ECE 461P
- ECE 360C
- ECE 316 or ECE 445S or ECE471C
- ECE 351M
- ECE 460J (LAB)

+

1 Technical Electives

Software Engineering & Design

Required Math:
M 325K

4 Required ECE Courses:

- ECE 422C
- ECE 360C
- ECE 461L (LAB)
- ECE 316 or ECE 445L

+

2 Technical Electives

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>