

PLAN FOR SUCCESS



College of Engineering

Department of Computer Science and Engineering

Bachelor of Science in Computer Engineering

1st Year

Fall Semester

UNIV 1131 OR ENGR 1101
CSE 1310
MATH 1426
ENGL 1301
HISTORY ELECTIVE
LANG/PHIL/CULT

Spring Semester

CSE 1106
CSE 1320
CSE 2315
MATH 2425
PHYS 1443

Summer (Optional)

HOURS	32
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2nd Year

Fall Semester

CSE 1325
CSE 2312
CSE 3318
PHYS 1444
HISTORY ELECTIVE

Spring Semester

CSE 3308
CSE 2440
CSE 2441
POLS 2311
COMS 2302

Summer (Optional)

HOURS	33
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3rd Year

Fall Semester

IE 3301
CSE 3320
CSE 3323
CSE 3442
POLS 2312

Spring Semester

CSE 3313
CSE 3341
CSE 4323
MATH ELECTIVE
ECON 2305/IE 2308

Summer (Optional)

HOURS	31
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4th Year

Fall Semester

CSE 3314
CSE 4316
CSE 4342
TECHNICAL ELECTIVE
CREATIVE ART

Spring Semester

CSE 4317
TECHNICAL ELECTIVE
TECHNICAL ELECTIVE
SCIENCE ELECTIVE

SENIOR HOURS	28
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TOTAL HOURS	124
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College of Engineering

634 Nedderman Hall Box 19019 | 416 Yates Street

P: 817-272-2571

F: 817-272-3784 | uta.edu



THE UNIVERSITY OF TEXAS
AT ARLINGTON

DESIGN YOUR JOURNEY



College of Engineering

Bachelor of Science in Computer Engineering

Beginning the Journey

- Familiarize yourself with your degree plan.
- Complete UNIV 1131 or ENGR 1101 to learn about all of the resources available to you & prepare you to succeed in your major.
- Meet with your advisor once a semester to ensure you're on track for graduation.
 - Freshman advising
 - Department advising
- If you are a freshman student, transition from freshman advising to department advising*.

Trailblazing the Path

- Complete your pre-professional courses and get admitted to the professional program.
- Attend a CSE tech elective fair to learn more about your tech elective options.
- Use your flowchart to plan what classes you want to take in the future. Use the catalog to find course descriptions.
- Consider adding a minor.

Destination Graduation

- Ask Dr. Barasch about our fast track master's and PhD programs.
- See an advisor during your Senior Design classes to set your graduation semester.
- Apply to graduate through MyMav.
- If you're an international student and need a full-time waiver or OPT form signed, you must see an advisor to have it approved.

MAVERICK ADVANTAGE

Be Bold. Be Ambitious. Set Yourself Apart.



CAREER DEVELOPMENT

- Internships/Co-Ops
- College of Engineering Career Fair
- College of Engineering Speed Mentoring
- All Majors Job Fair
- MavMentors



GLOBAL ENGAGEMENT

- Global Grounds
- Global Mavericks Program
- Study Abroad
- Hear about research being done around the world



LEADERSHIP DEVELOPMENT

- CSE organizations and clubs
- College of Engineering Organizations
- Leadership Minor
- Student Governance
- Fraternity & Sorority Life



COMMUNITY ENGAGEMENT

- Hack UTA
- Dean's Challenge
- The Big Event
- UTA Volunteers



UNDERGRADUATE RESEARCH

- Senior Design Projects
- Innovation Day
- McNair Scholars
- Get Involved With Our Research Labs

EDUCATE

EDUCATE

EDUCATE

ENGAGE

ENGAGE

ENGAGE

EXCEL

EXCEL

EXCEL

- Participate in the Dean's Challenge.
- Join a CSE organization so you can get to know your peers, pursue your interests, and have fun!
- Join a UTA club or a general engineering organization so you can get involved on campus and meet new people.
- Visit the International Student Center to learn about study abroad opportunities, clubs, on-campus events, and spring break community impact.
- Apply to join the Honors College.

- Participate in HackUTA or similar hackathon in the DFW area.
- Contact the Center for Service Learning for volunteer opportunities.
- Look into becoming an SI leader or tutor, or working at the IDEAS Center
- Participate in the Big Event.
- Interested in getting your PhD? Look into the McNair Scholars Program.

- Present at Innovation Day.
- Ask a professor about getting involved with the work going on in their labs.
- Attend speaker and special events.
- Attend a conference for the field that you want to work in.
- Take on a leadership position in a student organization.

- Attend the College-to-Career orientation session with Career Services and fill out the career fields of interest forms.
- Speak with Career Services about on-campus and summer job opportunities.
- Create a resume so you can work on building it up before you get to graduation.
- Create an account on Handshake.

- Carole Coleman is the internship and co-op coordinator for the College of Engineering. Contact her for information on these once you've met the requirements.
- Attend a College of Engineering Speed Mentoring event.
- Attend the College of Engineering Career Fair to network and learn more about companies. It's a great way to find employment and internship opportunities every semester.
- Join MavMentors.

- Finalize your resume so that you are ready to hand it out at job fairs.
- Setup a mock interview with the Career Development Center.
- Attend the All-Majors Job Fair.
- Complete The Job Search course on Canvas.
- Talk to a faculty member about the field that you want to go into and what you can do to be a competitive candidate.

* You can ask your freshman advisor about what these requirements are

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FIND YOUR CAREER



College of Engineering

What career options do I have with this major?

- Computer Design Engineer
- Computer Engineer
- Computer Programmer
- Computer Scientist
- Computer Systems Engineer
- Design Verification Engineer
- Electrical Engineer
- Embedded Systems Engineer
- FPGA Designer
- Hardware Designer
- Hardware Engineer
- Instrumentation Engineer
- Internet of Things (IoT) Designer
- Mechatronics Engineer
- Networking Engineer
- System on Chip (SOC) Designer
- Test Engineer

Workforce Skills

- Communication: Develop and articulate idea clearly and effectively across all mediums, including but not limited to written, oral, and digital communication.
- Critical Thinking: Analyze issues, make decisions, and overcome problems by using sound reasoning before forming a strategy, decision, or opinion.
- Professionalism: Display effective work habits, high integrity, and ethical behavior. Possess the ability to demonstrate skills confidently and apply talents to achieve professional success.

Career Readiness

- Ability to cope with constant change
- Ability to think logically
- Ability to work under pressure
- Abstract Reasoning
- Algorithms
- Attention to Detail
- Computer Architecture
- Computer Organization
- Computer Programming
- Data Structures
- Digital Logic Design
- Electrical Circuits
- Internet of Things (IoT)
- Electronics
- Embedded Bare-Metal Systems Design
- Embedded Linux Systems Design
- Field Programmable Gate Arrays
- Hardware Description Languages
- Mechatronics and Sensors
- Microprocessor Systems
- Operating Systems
- Real-Time Operating Systems
- Signal Processing
- Wireless Networks
- System on Chip (SoC)

Take Action

- Explore workforce skill development through on and off-campus activities; engage with the UTA Career Development Center at uta.edu/careers.
- Meet with a career consultant
- Network with employers
- Discover internships and co-ops
- Join Handshake, our career services platform.
- Apply for on-campus employment
- Participate in career development programs.

Visit uta.edu/majormaps for the latest version of this major map.