



| | YOUR CLASS SCHEDULE | ACADEMIC ADVISING | ENRICHING EXPERIENCES | LIFELONG SUCCESS |
|------------------|--|--|--|---|
| FRESHMAN | <ul style="list-style-type: none"> Register to take classes in this order: UNIV 1301, Foundations of Engineering; MATH 1411; PHYS 2420; then Electrical Engineering and core curriculum courses. | <ul style="list-style-type: none"> Meet your PREE Advisor and attend the Intro Compliance session during orientation. Declare your Electrical Engineering major once you register for MATH 1411 (Calculus I) or higher. | <ul style="list-style-type: none"> Explore student organizations at Gold Rush. Experience a new culture with a student exchange program. Network with peers and organize a study group at the IEEE Lounge. Cultivate leadership and teamwork skills at TCM Day. | <ul style="list-style-type: none"> Discover ACES tutoring resources. Explore career opportunities at the Career Expo and the Engineering & Science Expo. |
| SOPHOMORE | <ul style="list-style-type: none"> Take EE 2369, Digital Systems Design I; CE 2326, Economics for Engineers and Scientists; and PHYS 2421, if not already completed. Examine the critical path flow chart. | <ul style="list-style-type: none"> Meet with your PREE Advisor before registration. Discuss your degree plan with your PREE Advisor. Ask your PREE advisor about the Rising Junior Exam and the Masters of Science in Biomedical Engineering. | <ul style="list-style-type: none"> Join The Institute of Electrical and Electronics Engineers. Explore professional engagement opportunities with SWE and MAES/SHPE. Discover community involvement opportunities in your field with the Center for Civic Engagement. Strive for high grades to be eligible for induction into Eta Kappa Nu, the Electrical Engineering Honor Society. | <ul style="list-style-type: none"> Visit the Career Center Satellite to develop a resume and investigate employment opportunities. Cultivate healthy lifestyle habits by visiting the Student Recreation Center. |
| JUNIOR | <ul style="list-style-type: none"> Focus on your upper division Electrical Engineering classes. Examine the critical path flow chart. | <ul style="list-style-type: none"> Meet with your Electrical Engineering advisor before registration. Discuss your degree plan with your advisor. Ask about internship opportunities and about preparing for the Fundamentals of Engineering (FE) Exam. Consult the CE Advising Sheet. | <ul style="list-style-type: none"> Explore unique faculty-led travel opportunities with Engineering Global Programs. Participate in a technical competition such as Steel Bridge, Concrete Canoe, or Mini Baja. Cultivate global awareness at events sponsored by the Office of International Programs. | <ul style="list-style-type: none"> Ask a Peer Career Advisor about internship opportunities. Revisit the Career Expo and the Engineering & Science Expo. Explore graduate programs in Engineering. |
| SENIOR | <ul style="list-style-type: none"> Take EE 4220 (Senior Project Lab I) in the Fall. Take EE 4230 (Senior Project Lab II) in the Spring. Complete your major requirements and any remaining electives. | <ul style="list-style-type: none"> Meet with your Electrical Engineering advisor before registration. Review your graduation audit with the Graduation Coordinator. | <ul style="list-style-type: none"> Cultivate a leadership role with your student organization. Expand your community engagement efforts by joining the Ninjaneer Service Learning Program. Explore research opportunities with COURI. | <ul style="list-style-type: none"> Take the Fundamentals of Engineering (FE) Exam. Visit the Career Center Satellite. Examine the MSN Program with a Graduate Advisor for mock interviews and resume review. Apply for graduate school or explore career opportunities. |

UPDATED 06/29/2018

EDGE ADVANTAGES:

- Leadership
- Problem-solving
- Communication
- Entrepreneurship
- Social Responsibility
- Confidence
- Global Awareness
- Teamwork
- Critical Thinking

CAREER POSSIBILITIES:

- Engineering services
- Electric power generation, transmission, and distribution
- Semiconductor and electronic component manufacturing
- Navigational, measuring, electromedical, and control instruments manufacturing
- Research and development



Bachelor of Science in
ELECTRICAL ENGINEERING
MAJOR MAP CHECKLIST | 2018-2019



Last Name _____

First Name _____ M.I. _____

Catalog: 2017-18
Expires: 08/01/2024

UTEP ID _____

NOTE: Overall GPA ≥ 2.0 AND In-Major GPA ≥ 2.0 REQUIRED for graduation

| A Core Curriculum (45 SCH) (minimum of "C" grade required) | | Semester Completed | Final Grade | SCH | Sub # |
|---|-----------------------------------|--------------------|-------------|-----|-------|
| 1 Communication (6 credit hours required) | | | | | |
| RWS 1301* | Rhetoric and Composition I | | | | |
| RWS 1302* | Rhetoric and Composition II | | | | |
| 2 Mathematics (4) | | | | | |
| MATH 1411* | Calculus I | | | | |
| 3 Life and Physical Sciences (8) | | | | | |
| PHYS 2420* | Introductory Mechanics | | | | |
| PHYS 2421* | Fields and Waves | | | | |
| 4 Language, Philosophy, and Culture (3) Select and circle one | | | | | |
| ENGL 2311*, 2312*, 2313*, 2314*, 2318*, FREN 2322*, HIST 2301*, 2302*, PHIL 1301*, 2306*, RS 1301*, SPAN 2340*, WS 2300*, 2350* | | | | | |
| 5 Creative Arts (3) Select and circle one | | | | | |
| ART 1300*, ARTH 1305*, 1306*, DANC 1304*, FILM 1390*, MUSL 1321*, 1324*, 1327*, THEA 1313* | | | | | |
| 6 American History (6) | | | | | |
| HIST 1301* | History of the U.S. to 1865 | | | | |
| HIST 1302* | History of the U.S. since 1865 | | | | |
| 7 Government/Political Science (6) -- all 6 SCH must be completed at the same institution | | | | | |
| POLS 2310* | Introduction to Politics | | | | |
| POLS 2311* | American Govt. & Politics | | | | |
| 8 Social and Behavioral Sciences (3) | | | | | |
| CE 2326* | Econ. For Engrs & Scientists | | | | |
| 9 Component Area Option (6) | | | | | |
| UNIV 1301 | Fundamentals of Engineering | | | | |
| CS 1320* | Computer Programming Sci. / Engr. | | | | |

| B Foundational Math & Science (15 SCH) | | Semester Completed | Final Grade | SCH | Sub # |
|--|------------------------|--------------------|-------------|-----|-------|
| MATH 1312* | Calculus II | | | | |
| MATH 2313* | Calculus III | | | | |
| MATH 2326* | Differential Equations | | | | |
| MATH 3323* | Matrix Algebra | | | | |
| CHEM 1305*, BIOL 1305*, or MATH 2300* | | | | | |

| C Major: Required Lower Division Courses (21 SCH) | | Semester Completed | Final Grade | SCH | Sub # |
|---|------------------------------|--------------------|-------------|-----|-------|
| EE 1105* | Lab for EE 1305 | | | | |
| EE 1305* | Intro to EE | | | | |
| EE 2151* | Lab for EE 2351 | | | | |
| EE 2169* | Lab for EE 2369 | | | | |
| EE 2350* | Electric Circuits I | | | | |
| EE 2351* | Electric Circuits II | | | | |
| EE 2353* | Cont. Time Signals & Systems | | | | |
| EE 2369* | Digital Systems Design I | | | | |
| EE 2372* | Software Design I | | | | |

| D Major: Required Upper Division Courses (32 SCH) | | Semester Completed | Final Grade | SCH | Sub # |
|---|-----------------------------------|--------------------|-------------|-----|-------|
| EE 3138* | Lab for EE 3338 | | | | |
| EE 3176* | Lab for EE 3376 | | | | |
| EE 3195* | Junior Professional Orientation | | | | |
| EE 3321* | Electromagnetic Field Theory | | | | |
| EE 3325* | Applied Quantum Mechanics for EEs | | | | |
| EE 3329* | Electronic Devices | | | | |
| EE 3338* | Electronics I | | | | |
| EE 3340* | Electronics II | | | | |
| EE 3353* | Discrete Time Signals & Sys. | | | | |
| EE 3376* | Microprocessor Systems I | | | | |
| EE 3384 | Probabilistic Methods-Engr/Sci | | | | |
| EE 41__ | Senior-level Lab | | | | |
| EE 4220* | Senior Project Lab I | | | | |
| EE 4230 | Senior Project Lab II | | | | |

| E Major: Concentration Courses (12 SCH) see advisor for list of concentrations & approved courses within concentration. | | Semester Completed | Final Grade | SCH | Sub # |
|--|--|--------------------|-------------|-----|-------|
| | | | | | |
| | | | | | |
| | | | | | |

| F Technical Elective (3 SCH) see advisor for approved courses | | Semester Completed | Final Grade | SCH | Sub # |
|--|--|--------------------|-------------|-----|-------|
| | | | | | |

* -- C or better required
** -- official substitution form available at <http://engineering.utep.edu/plaza/AcademicForms/index.html>

BSEE Total Hours 128

| SUBSTITUTIONS** | | | | |
|-----------------|-------------------------------------|------------------------------------|---|---|
| # of Sub | Course on degree plan to substitute | Institution where course was taken | Name of Course as it appears on UTEP Transcript | Course as it appears on UTEP Transcript |
| 1 | | | | |
| 2 | | | | |
| 3 | | | | |
| 4 | | | | |

| APPROVALS: | |
|---------------|------------|
| ADVISOR _____ | DATE _____ |
| CHAIR _____ | DATE _____ |

Rev. 06-26-2017