# **<u>Electrical Engineering</u>** – UGRD Curriculum Flowchart 2019 – 2020

Sem. Credit Hrs. ENGL 1301 **ENGI 1100** MATH 2413 **CHEM 1311** 15 1<sup>st</sup> Semester **CHEM 1111** HIST 1377 First Year Intro to Engr Calculus I Chemistry Chemistry Lab US to 1877 Writing I ENGL 1302 **ENGI 1331** 2<sup>nd</sup> HIST 1378 17 MATH 2414 PHYS 2325 PHYS 2125 First Year Comp. & US since 1877 Semester Calculus II Univ Phys I Phys Lab I Writing II Prob. Solv. 3<sup>rd</sup> **GOVT 2306** MATH 3321 ECE 2201 MATH 2415 PHYS 2326 PHYS 2126 16 Semester US & TX Engineering Circuit Calculus III Univ Phys II Phys Lab II Analysis I Constitutions Math 4<sup>th</sup> ECE 2202 ECE 3441 ENGI 2304 XXXX X3XX ECE 3331 ECE 2100 16 Semester Technical Circuit Digital Logic Creative Arts Prog Applic Circuits Lab Comm Analysis II Design Core In ECE 5<sup>th</sup> ECE 3337 ECE 3317 ECE 3436 ECE 3155 ECE 3355 Semester 17 Signal & Sys Applied EM Micro-**ECE Elective** Electronics Electronics Analysis Waves processors INDE 2333 ECE 3340 **GOVT 2305** Concentration Semester Numerical 16 Engr Elective Lab **ECE Elective US Govt** Elective Statistics Methods 7<sup>th</sup> Semester ECON 2302 Concentration Concentration **Technical** ECE 4335 16 Elective Lab Microecon. ECE Sys Design I^ Elective Elective Elective Principles XXXX X3XX 16 Concentration Concentration Concentration ECE 4336 Elective Lab Semester Lang, Phil, & ECE Sys Design II^ Elective Elective Elective Culture Core

## Electrical Engineering - Undergraduate Curriculum Flowchart/Degree Plan

**Prerequisites** are strictly enforced. Students are responsible for taking prerequisites to courses in which they enroll. An advisor may drop students from any class if the student lacks a prerequisite or co-requisite. Students can find prerequisites to courses in the University of Houston Undergraduate and Graduate course catalogs.

**Enrollment Resources:** https://uh.edu/academics/courses-enrollment/

### **Terminology**

**Prerequisite**: Course that must be completed prior to taking another course. These are listed in the catalog in the course description.

Please be aware that prerequisites are cumulative. If course A is a prerequisite to course B, and course C requires course B, then course C also requires course A.

**Co-requisite:** If a course is listed as a co-requisite, you must be enrolled in both classes at the same time. If you drop one class, you must drop the other class

**Concurrent Enrollment:** Usually stated as, "credit for or concurrent enrollment in", which means you must have completed or be enrolled in course "A" to enroll in course "B".

**Consent of Instructor:** Some courses will state you must have prerequisite "A" or "consent of instructor" or "consent of department".It is your responsibility to contact the instructor or the department of the course, to obtain consent on or before the first class day.

#### SUBMITTING CPE DEGREE PLAN

In the last two years of the BSEE degree plan, students must choose a number of elective courses.

ECE department will contact students in the semester completing ECE base course requirements (ECE 3355, 3337, 3436) with instructions on filing a degree plan.

#### \*ELECTIVES

Students must take 6concentration electives, 2 ECE electives, and 1 technical elective. Course selections must include a minimum of3labs. Students with 6 or

more labs can substitute 3 of those labs for one ECE elective.

#### **ELECTIVE LABS**

Students will choose electives with at least 3 labs. Electives with a lecture/lab or a 4 credit hour course will apply.

EX: ECE 4375/4115 - ECE 4115 will be used as an Elective Lab

ECE 4437 - The 4th credit hour in this course is a lab hour and will count as an elective lab.

\* ECE 4335-4336: These are a two-course sequence that must be taken in consecutive semesters, with 4336 to be taken in the semester of graduation.