REQUIREMENTS FOR THE BACHELOR OF SCIENCE
GALLOGLY COLLEGE OF ENGINEERING
THE UNIVERSITY OF OKLAHOMA

Academic Year	General Requirements		Program
For Students Entering the Oklahoma State System for Higher Education **Summer 2021 through Spring 2022**	Minimum Total Credit Hours .... **129** **Minimum Retention/Graduation Grade Point Averages:** Overall - Combined and OU .... **2.00** Major - Combined and OU **2.00**		**Computer Engineering** **B225** Bachelor of Science

> OU encourages students to complete at least 33 hours of applicable coursework each year to have the opportunity to graduate in 4 years.

Accredited by the Engineering Accreditation Commission of ABET, http://www.abet.org

In order to progress in your curriculum in the Gallogly College of Engineering, and as a specific graduation requirement, a grade of C or better is required in each course in the curriculum, including all prerequisite courses.

Two college-level courses in a single world language are required; this may be satisfied by successful completion of 2 years in a single world language in high school. Students who must take a language at the University will have an additional 6-10 hours of coursework.

Year	FIRST SEMESTER		Hours	SECOND SEMESTER		Hours
FRESHMAN	ENGL 1113	Principles of English Composition (Core I)	3	ENGL 1213 or EXPO 1213	Principles of English Composition (Core I) or Expository Writing	3
	CHEM 1315	General Chemistry (Core II-Lab) [1]	5	MATH 2924	Differential and Integral Calculus II [2]	4
	MATH 1914	Differential and Integral Calculus I (Core I) [2]	4	PHYS 2514	General Physics for Engineering and Science Majors (Core II)	4
	HIST 1483 or HIST 1493	United States to 1865 (Core IV) or United States, 1865 to the Present	3	C S 1323	Introduction to Computer Programming for Programmers	3
	ENGR 1411	Freshman Engineering Experience [3]	1		Approved Elective: First-Year Experience (Core V) [4]	3
		CREDIT HOURS	**16**		**CREDIT HOURS**	**17**
SOPHOMORE	MATH 2934	Differential and Integral Calculus III [2]	4	MATH 3113	Introduction to Ordinary Differential Equations	3
	PHYS 2524	General Physics for Engineering and Science Majors	4	C S 2413	Data Structures	3
	C S 2334	Programming Structures and Abstractions	4	C S 2813	Discrete Structures	3
	ECE 2214	Digital Design	4	ECE 2713	Digital Signals and Filtering	3
	P SC 1113	American Federal Government (Core III)	3	ECE 2723	Electrical Circuits I	3
				ENGR 2002	Professional Development	2
		CREDIT HOURS	**19**		**CREDIT HOURS**	**17**
JUNIOR	ECE 2523	Probability, Statistics and Random Processes	3	ECE 3223	Microprocessor System Design	3
	ECE 3723	Electrical Circuits II	3	ECE 3793	Signals and Systems	3
	ECE 3773	Electrical and Computer Engineering Circuits Laboratory	3	ECE 3873	Electrical and Computer Engineering Electronics Laboratory	3
	ECE 3813	Introductory Electronics	3	MATH 3333	Linear Algebra I	3
		Approved Elective, Social Science (Core III) [4]	3		Approved Elective, Artistic Forms (Core IV) [4]	3
		CREDIT HOURS	**15**		**CREDIT HOURS**	**15**
SENIOR	ECE 4273	Digital Design Laboratory	3	ECE 4773	Laboratory (Special Projects)	3
	ECE 4613	Computer Architecture	3		ECE/CS 4000- or higher level Elective [5]	3
		Professional Elective [5]	3		ECE/CS 4000- or higher level Elective [5]	3
		ECE/CS 3000-4000-level Elective [5]	3		ECE/CS 3000-4000-level Elective [5]	3
		Approved Elective, Western Culture (Core IV) [4]	3		Approved Elective, World Culture (Core IV) [4]	3
		CREDIT HOURS	**15**		**CREDIT HOURS**	**15**

[1] CHEM 1315 can be substituted with CHEM 1335 (Fall only).

[2] MATH 1823, MATH 2423, MATH 2433, and MATH 2443 sequence can be substituted for MATH 1914, MATH 2924, and MATH 2934.

[3] Engineering transfer students may take ENGR 3511 in place of ENGR 1411.

[4] To be chosen from the University-Wide General Education Approved Course List. Three of these 12 hours must be upper-division (3000-4000). See list in the Class Schedule.

[5] Electives to be selected from list available in the ECE Office, DEH-150. **Note:** One of the four electives must be an approved ECE course.

Courses designated as Core I, II, III, IV or V are part of the General Education curriculum. Students must complete a minimum of 40 hours of General Education courses, chosen from the approved list.