

REQUIREMENTS FOR THE BACHELOR OF SCIENCE IN COMPUTER SCIENCE

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COLLEGE OF ENGINEERING

THE UNIVERSITY OF OKLAHOMA

For Students Entering the Oklahoma State System for Higher Education
Summer 2014 through Spring 2015

GENERAL REQUIREMENTS	
Total Credit Hours	120-121•
Minimum Retention/Graduation Grade Point Averages:	
Overall - Combined and OU	2.00
Major - Combined and OU	2.00
Curriculum - Combined and OU	2.00
A minimum grade of C is required for each course in the curriculum.	

Computer Science

B235

Bachelor of Science in
Computer Science

OU encourages students to complete at least 29 hours of applicable coursework each year to have the opportunity to graduate in four years.						
Year	FIRST SEMESTER		Hours	SECOND SEMESTER		Hours
FRESHMAN	ENGL 1113, Prin. of English Composition (Core I)		3	ENGL 1213, Prin. of English Composition (Core I), or		3
	◆MATH 1914, Differential and Integral Calculus I (Core I)		4	EXPO 1213, Expository Writing (Core I)		
	P SC 1113, American Federal Government (Core III)		3	◆MATH 2924, Differential and Integral Calculus II		4
	ENGR 1411, Freshman Engineering Experience		1	C S 2334, Programming Structures & Abstractions		4
	§C S 1323, Intro. to Computer Programming		3			
	†Approved Elective: Artistic Forms (Core IV)		3	◆†Approved Elective: Natural Science (Core II)		3-5
				◆Open Elective		0-2
	TOTAL CREDIT HOURS		17	TOTAL CREDIT HOURS		16
SOPHOMORE	◆MATH 2934, Differential and Integral Calculus III		4	C S 2813, Discrete Structures		3
	C S 2603, Applied Logic for Hardware & Software		3	C S 2413, Data Structures		3
	+PHYS 1311, General Physics Lab I		0-1	C S 2613, Computer Organization		3
	PHYS 2514, General Physics for Engineering & Science Majors (Core II)		4	◆†Approved Elective: Natural Science (Core II)		3-5
	†Approved Elective: Social Science (Core III)		3	◆Open Elective		0-2
	TOTAL CREDIT HOURS		14-15	TOTAL CREDIT HOURS		14
JUNIOR	MATH 3113, Intro. to Ordinary Differential Equations, or		3	ENGL 3153, Technical Writing, or		3
	MATH 3413, Physical Mathematics I			B C 2813, Business Communication §		
	COMM 2613, Public Speaking		3	MATH 3333, Linear Algebra		3
	C S 3113, Intro. to Operating Systems		3	C S 3053, Human Computer Interaction		3
	C S 3202, Software Requirements & Specifications		2	C S 3323, Principles of Programming Languages		3
	C S 3823, Theory of Computation		3	1 of the following 3 courses:		
				MATH 4753, Applied Statistical Methods, or		3
				ISE 3293, Applied Engineering Statistics, or		
				MATH 4743, Intro. to Mathematical Statistics		
	TOTAL CREDIT HOURS		14	TOTAL CREDIT HOURS		15
SENIOR	HSCI 3493, The History of Media (Core IV - WC)		3	C S 4273, Software Engineering II (Capstone)		3
	C S 4263, Software Engineering I		3	‡C S Approved C S Elective		3
	C S 4413, Algorithm Analysis		3	‡C S Approved C S Elective		3
	‡C S Approved C S Elective, or		3	HIST 1483, U.S., 1492-1865, or		3
MATH 4073, Numerical Analysis			HIST 1493, U.S., 1865-Present (Core IV)			
	C S 4513, Database Management Systems		3	†Approved Elective: Non-Western Culture (Core IV)		3
	TOTAL CREDIT HOURS		15	TOTAL CREDIT HOURS		15

NOTE: Engineering transfer students may take ENGR 3511 in place of ENGR 1411.

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

†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.

In the College of Engineering, in order to progress in your curriculum, and as a specific graduation requirement, a grade of C or better is required in each course in the curriculum. Please refer to the General Catalog for additional enrollment limitations.

Students should read the College of Engineering Scholastic Regulations which are posted on the WSSC website under Advising (See Advising Syllabus): <http://www.ou.edu/content/coe/wssc/advising/where.html>.

Students must successfully complete prerequisite courses (with a minimum C grade) before proceeding to the next course.

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

‡To be chosen from C S 4013, 4023, 4033, 4053, 4073, 4113, 4133, 4323, 4433, 4613, 4743, 4823, and 4973.

§Honors College students may substitute C S 3960 for ENGL 3153/B C 2813 and C S 3980 for an approved C S elective. Both C S 3960 and 3980 must be completed.

◆At least one of the Natural Science courses must be a non-Physics course. The number of credits in Core II natural science and open electives must be 14 credit hours or more. All science courses must be for science or engineering majors.

†Another laboratory science Core II course may be substituted for PHYS 1311.

NOTE: See an adviser in the Arts and Sciences Advising Center (EL 124) about a possible minor in mathematics.

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

