

COMPUTER SCIENCE, B.S. WITH TEACHER CERTIFICATION

Course	Title	Semester Credit Hours
Freshman Year		
Semester 1		
CHEM 1311 & CHEM 1111	Gen Inorganic Chemistry I and Gen Inorganic Chem Lab I	4
CSEN 2304	Introd to Computer Science	3
ENGL 1301	Rhetoric and Composition	3
MATH 2413	Calculus I	4
UNIV 1201	Learning in Global Context	2
Semester Credit Hours		16
Semester 2		
CSEN 2306	Object-Oriented Programming	3
ENGL 1302	Rhetoric and Composition	3
HIST 1301	American History to 1877	3
MATH 2414	Calculus II	4
Creative arts (https://catalog.tamuk.edu/undergraduate/general-requirements-graduation-baccalaureate-degree/#creative)		3
Semester Credit Hours		16
Sophomore Year		
Semester 1		
CSEN 2310	Objt Oriented Software Enginrg	3
HIST 1302	American History since 1877	3
MATH 3320	Differential Equations	3
PHYS 2325 & PHYS 2125	University Physics I and University Physics I Lab	4
POLS 2301	Government and Politics of US	3
Semester Credit Hours		16
Semester 2		
CSEN 2328	Data Structures & Algorithms	3
MATH 3370	Discrete Mathematics	3
PHYS 2326 & PHYS 2126	University Physics II and University Physics II Lab	4
POLS 2302	Government and Politics of TX	3
Lang/Phil/Culture (https://catalog.tamuk.edu/undergraduate/general-requirements-graduation-baccalaureate-degree/#language)		3
Semester Credit Hours		16
Junior Year		
Semester 1		
CSEN 3315	Computer Graphics	3
EEEN 2340	Digital Logic Design	3
STAT 1342	Elementary Statistics	3
Communications (https://catalog.tamuk.edu/undergraduate/general-requirements-graduation-baccalaureate-degree/#communication) ¹		3
Social/Behavioral (https://catalog.tamuk.edu/undergraduate/general-requirements-graduation-baccalaureate-degree/#social)		3
Semester Credit Hours		15
Semester 2		
CSEN 3314	Database Systems	3
CSEN 3316	Software Engineering I	3
EDED 3310	Intro to Instructional Design ²	3
EEEN 3449	Microprocessor Systems	4

POLS 4324	Technology and Society (WI)	3
Semester Credit Hours		16
Senior Year		
Semester 1		
CSEN 4201	Software Engineering Project	2
CSEN 4317	Software Engineering II	3
CSEN 4320	Computer Networks	3
EDED 3302	Develop Behavr of Chl and Adol ²	3
EDED 3333	Clstrm Mgt and Org in Mid Sch ²	3
EEEN 4344	Computer Architectr and Design	3
Semester Credit Hours		17
Semester 2		
CSEN 4202	Software Engineering Proj (WI)	2
CSEN 4340	Computer Security	3
CSEN 4362	Operating Systems	3
CSEN 4366	Programming Languages	3
EDED 3332	Curr Mats Developmt and Plan ²	3
EDED 3362	Instr Mthds and Strat Sec Sch ²	3
Semester Credit Hours		17
Certification Semester		
EDED 4623	Sec Sch Student Teaching ²	6
EDRG 4314	Develp Correct Rdg for Sec Sch ²	3
EDSE 4349	Foundations Special Educ (WI) ²	3
Semester Credit Hours		12
Total Credit Hours Required:		141

¹ COMS 2374 or ENGL 2374 is strongly recommended.

² 27 credit hours in education courses are required for teacher certification.