Computer Science *Games/EAE* B.S. Degree - Requirements 2019-20

See handbook.cs.utah.edu for complete details and additional restrictions.
Questions? Contact a CS Academic Advisor: book appointment or ugrad-help@cs.utah.edu.

	Course	Title	Credits	Designation	Notes	Planned Semester	DV choose 1	IR choose 1	3000+ choose 2
GENERAL EDUCATION	WRTG 2010	*Intermediate Writing*	3	WR2	†				
	FA 3600 or WRTG 4030		3	CW	†				
	_____	_____	3	AI	†				
	ART 1020	*Basic Drawing*	3	FF					
	DES 2615	*Intro Design Thinking*	3	FF					
	_____	_____	3	HF	†◁		☐	☐	☐
	_____	_____	3	HF	†◁		☐	☐	☐
	_____	_____	3	BF	†◁		☐	☐	☐
	_____	_____	3	BF	†◁		☐	☐	☐
PRE-MAJOR	CS 1030	*Foundations of CS*	3		▲				
	CS 1410	*Intro to OOP*	4						
	CS 2420	*Intro to Algs & DS*	4						
	MATH 1210	*Calculus I*	4	QR	★†				
	MATH 1220	*Calculus II*	4	QR	★†				
MATH/SCI.	CS 3130	*Eng Prob & Stats*	3	QI					
	MATH 2270	*Linear Algebra*	4	QR					
	PHYS 2210	*Physics for Sci & Eng*	4	SF	†				
	_____	_____	3		✳†◁				
CS REQ.	CS 2100	*Discrete Structures*	3						
	CS 3500	*Software Practice I*	4						
	CS 3505	*Software Practice II*	3						
	CS 3810	*Computer Org*	4	QI					
	CS 4150	*Algorithms*	3	QI					
	CS 4400	*Computer Systems*	3	QI					
EAE REQ.	EAE 1050	*Digital Content*	3						
	EAE 2100	*Intro Game Design*	3						
	EAE 3010	*Asset Pipeline*	3						
	EAE 3660	*Interactive Machinima*	3						
	EAE 3710	*Trad Game Develop*	3						
	EAE 3720	*Alt Game Develop*	3						
AREA FOCUS	CS _____	*(AI/Analytics)*	3		Ⓐ				
	CS _____	*(Core/Fundamentals)*	3		Ⓒ				
	CS _____	*(Human Centered)*	3		Ⓗ				
	CS _____	*(Infrastructure)*	3		Ⓘ				
	CS _____	_____	3		✪◁				
	CS _____	_____	3		✪◁				
THEORY RESTRICTED ELECTIVE	CS _____	_____	3	Choose CS 3100 (Fa) or CS 3200 (Sp)					
SENIOR CAPSTONE REQUIREMENT	EAE 4500	*Senior Project I*	3						
	EAE 4510	*Senior Project II*	3		‡				

125 total credits⊗

† Honors options available see honors.utah.edu

◁ 4 credit options accepted

▲ Waivable requirement see First CS Course

★ Engineering Calculus, MATH 1310 and 1320, also accepted

✳ Fill in with math, science, or engineering courses that have MATH 1220 as pre- or co-requisite. BIOL 1610 and CHEM 1210 also accepted — *see handbook.cs.utah.edu for choice restrictions*

Ⓐ Choose CS 4300, CS 5140, CS 5340, or CS 5350

Ⓒ Choose CS 4470, CS 5150, or CS 5460

Ⓗ Choose CS 3540, CS 4350, CS 4600, or CS 5650

Ⓘ Choose CS 3470, CS 4440, CS 4480, or CS 5530

✪ Choose 2 more courses from any of the 4 Focus Areas above

‡ Students pursuing Honors and choosing Project must take CS 4998 concurrently with CS 4500 to satisfy the Honors Thesis Work

⊗ Minimum 122 credits required for graduation

Updated July 2019