

B.A. in Computer Systems -- Quarter to Semester Translation Table
Quarter Requirements (AY 2017-18)

		Quarter Courses	Semester Course Equivalencies (Course is the same as the quarter course. This can be 1:1; 1:many; many:1; or many:many courses. Anywhere (for any program) which the quarter course was required or listed, this (these) semester course(s) can be used. This information will also be displayed in the course conversion guide. Repeat rules apply.)	Acceptable Semester Course Substitutions (Course is NOT the same as the semester course, but it is acceptable for this particular program requirement area for all students. This information WILL NOT be displayed in the course conversion guide, but will be reflected on the PAWS as a choice for the student. Repeat rules DO NOT apply.)	Acceptable Semester Course Repeats (If there is an acceptable semester course equivalency, this is the alternative course to allow for grade forgiveness/grade discounting.)	Quarter Units (Current number of units which are required for each requirement area.)	Semester Units (Number of semester units which will be required for each requirement area.)	Notes
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Computer Systems Core

Lower Division Requirements	Required courses	CSE 201	CSE 2010	CSE 2010		4	3	
		CSE 202	CSE 2020	CSE 2020		4	3	
		MATH 211	MATH 2210	MATH 2210		4	4	
		MATH 262	MATH #262	MATH #262		4	3	
		MATH 272	MATH 2071	MATH 2071		4	3	
Upper Division Requirements	Required courses	CSE 313	CSE 2130	CSE 2130		4	3	
		CSE 322	CSE 4050	CSE 4050		4	3	
		CSE 390	CSE 4080	CSE 2080		4	3	
		CSE 455	CSE 4550	CSE 4550		4	3	
		CSE 482	CSE 4820	CSE 4820		4	3	
		CSE 488	CSE 4880	CSE 4880		2	3	
		COMM 311	COMM #311	COMM #311		4	3	
		Total						46

General Interdisciplinary Option (CSGI)

General Interdisciplinary Option (CSGI)	Twenty-four units chosen from CSE courses numbered 300 and above	CSE 300-599	CSE 3000-5999	CSE 3000-5990		24	15	
	Twenty-four units of coursework in another discipline such as a minor or other cohesive program of study; subject to approval by the School of Computer Science and Engineering	Fifteen units of coursework in another discipline such as a minor or other cohesive program of study; subject to approval by the School of Computer Science and Engineering	Fifteen units of coursework in another discipline such as a minor or other cohesive program of study; subject to approval by the School of Computer Science and Engineering	Fifteen units of coursework in another discipline such as a minor or other cohesive program of study; subject to approval by the School of Computer Science and Engineering		24	15	
Total						48	30	

Game Development Option (CSGD)

Game Development Option (CSGD)	Required courses	CSE 420	CSE 4200			4	3	
		CSE 440	CSE 4400			4	3	
		CSE 441	CSE 4410			4	3	
		CSE 520	CSE 4200			4	3	
		MATH 212	MATH #212			4	4	
		MATH 251	MATH #251			4	3	
	MATH 331	MATH #331			4	4		
	Four units chosen from CSE courses number 300 and above	CSE 300-599	Nine units chosen from CSE courses number 3000 and above	CSE 3000-5999		4	9	
	One course chosen from	PHYS 121	PHYS #121	PHYS #121		5	5	
	PHYS 221	PHYS 2500	PHYS 2500					
Twelve units of supporting coursework such as 3D modeling, animation, level design, image editing, and other coursework related to game development.	Six units of supporting coursework such as 3D modeling, animation, level design, image editing, and other coursework related to game development.	Six units of supporting coursework such as 3D modeling, animation, level design, image editing, and other coursework related to game development.	Six units of supporting coursework such as 3D modeling, animation, level design, image editing, and other coursework related to game development.		12	6		
Total						49	43	

Graphics Programming Option (CSGP)

Graphics Programming Option (CSGP)	Required courses	ART 120	ART #120			4	3	
		ART 232	ART #232			4	3	
		CSE 420	CSE 4200			4	3	
		CSE 440	CSE 4400			4	3	
		CSE 441	CSE 4410			4	3	
		CSE 520	CSE 4200			4	3	
		MATH 212	MATH #212			4	3	
		MATH 251	MATH #251			4	3	
	MATH 331	MATH #331			4	3		
	Twelve units of additional art courses.	ART	ART	ART		12	8	
Total						48	35	

Web Programming Option (CSWP)

Web Programming Option (CSWP)	Required courses	CSE 392	CSE 4000	CSE 4000		4	3	
		CSE 360	CSE 3650	CSE 3650		4	3	
		CSE 365	CSE 3650	CSE 3650		4	3	
		CSE 366	CSE 3660	CSE 3660		4	3	
		CSE 405	CSE 4050	CSE 4050		4	3	
		CSE 572	CSE 5720	CSE 5720		4	3	
		CSE 580	CSE 5720	CSE 5720		4	3	
		Twelve units chosen from CSE courses numbered 300 and above	CSE 300-599	CSE 3000-5999	CSE 3000-5999		12	8
	Eight units of art courses (subject to approval by the Schools of Computer Science and Engineering).	ART	ART	ART		8	6	
	Total						48	35

System Administration Option (CSSA)

System Administration Option (CSSA)	Required courses	CSE 392		CSE 4000		4	3	
		CSE 310	CSE 3100	CSE 3100		5	4	
		CSE 360	CSE 3650	CSE 3650		4	3	
		CSE 365	CSE 3650	CSE 3650		4	3	
		CSE 366	CSE 3650	CSE 3650		4	3	
		CSE 401	CSE 4010	CSE 4010		5	4	
		CSE 405	CSE 4050	CSE 4050		4	3	
		CSE 460	CSE 4600	CSE 4600		4	3	
	CSE 461	CSE 4600	CSE 4600		4	3		
	CSE 572	CSE 5720	CSE 5720		4	3		
Eight units chosen from CSE courses numbered 300 and above	CSE 300-599	CSE 3000-5999	CSE 3000-5999		8	6		
Total						50	38	

B.S. in Computer Engineering -- Quarter to Semester Translation Table
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COEN									
Lower Division Requirements	Required courses	CSE 201	CSE 2010		4	4			
		CSE 202	CSE 2020		4	4			
		CSE 208	CSE 2208		2	4	CSE 208+308+408->CSE 5208 + 5408		
		MATH 211	MATH 2210		4	4			
		MATH 212	MATH #212		4	4			
		MATH 213	MATH #212		4	4			
		MATH 251	MATH #AppliedLinearAlgebra		4	4	Topics in CSE 251 are covered in Math #331		
		MATH 262	MATH #262		4	3			
		MATH 272	MATH 2071		4	3			
		PHYS 150	CSE 4030		5	5	Topics in PHYS 150 are covered in CSE 4030		
		PHYS 221	PHYS 2500 + 2500L		5	5			
		PHYS 222	PHYS #222		5	5			
		PHYS 223	PHYS #223		5	5			
		Upper Division Requirements	Required courses	CSE 308	CSE 5208		4	4	CSE 208, 308, 408 are converted 5208, 5408
CSE 310	CSE 3100				5	4			
CSE 311	CSE 5210				4	4	CSE 311 + CSE 521 -> CSE 5210		
CSE 313	CSE 2130				4	3			
CSE 330	CSE 2020				4	4	CSE 201 +202+330->CSE 2010+CSE 2020		
CSE 335	CSE 3350				4	3			
CSE 401	CSE 4010				5	4			
CSE 403	CSE 4030				4	4			
CSE 408	CSE 5408				4	4			
CSE 456	CSE 4560				4	4			
CSE 460	CSE 4600				4	3			
CSE 521	CSE 5210				4	4			
CSE 535	CSE 5350 or CSE 4310				4	3			
CSE 541	CSE 5410				4	4			
MATH 331	MATH #AppliedLinearAlgebra				4	4			
PHYS 350	CSE 5410				4	4	Some topics in PHYS 350 are in CSE 5410		
Electives	Take three courses for a total of 12 units from the following			CSE 431					
				CSE 455	Nine units chosen from CSE 4000-				
		CSE 461	level and above courses and not						
		CSE 500-599	previously taken.		12	9			
		PHYS 352							
Total					132	92			

B.S. in Computer Science -- Quarter to Semester Translation Table
Quarter Requirements (AY 2017-18)

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CSCI									
Lower Division Requirements	Required courses	CSE 201	CSE 2010			4	4		
		CSE 202	CSE 2020			4	4		
		MATH 211	MATH #210			4	4		
		MATH 212	MATH #212			4	4		
		MATH 213	MATH #212			4	4		
		MATH 262	MATH #262			4	3		
		MATH 272	MATH 2071			4	3		
		PHYS 221	PHYS 2500 + 2500L			5	5		
		PHYS 222	PHYS #222			5	5		
		PHYS 223	PHYS #222			5	5		
		One Biology course chosen from	BIOC 100	BIOC 1000 + 1000L			5	4	
	One additional science course (with lab component), not previously taken, from the following areas:	Astronomy, Biology, Chemistry, Geological Sciences, Physics (excluding PHYS 100, PHYS 121, PHYS 122, and PHYS 123)	Science Course with Lab			5	4		
Upper Division Requirements	Required courses	CSE 310	CSE 3100			5	4		
		CSE 313	CSE 3130			4	3		
		CSE 330	CSE 5000			4	3		
		CSE 330	CSE 2020			4	4		
		CSE 401	CSE 4010			5	4		
		CSE 431	CSE 4310			4	3		
		CSE 460	CSE 4600			4	3		
		CSE 461	CSE 4600			4	3		
		CSE 488	CSE 4880			2	3		
		CSE 489	CSE 4880			2	3		
		CSE 500	CSE 5000			4	3		
		CSE 570	CSE 5700			4	3		
		MATH 372	MATH #372			4	3		
		One course chosen from	CSE 455	CSE 4550			4	3	
		CSE 555	CSE 4550						
		Sixteen units chosen from CSE 400-level and above courses and not previously taken	CSE 400-599	Nine units chosen from CSE 4000-5990 not already taken			16	9	
	Total						123	103	