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

						1	ı	1
			Semester Course	Acceptable Semester		1	ı	1
			Equivalencies	Course Substitutions		1	ı	1
			(Course is the same as the	(Course is NOT the same as		1	ı	1
	1		quarter course. This can be 1:1;	the semester course, but it is		ľ	ı .	1
	1		1:many; many:1; or many:many	acceptable for this particular		ľ	ı .	1
			courses. Anywhere (for any	program requirement area	l	1	, !	1
	1		program) which the quarter	for all students. This	Acceptable Semester Course	ľ	ı .	1
			course was required or listed,	information WILL NOT be	Repeats	L '		1
	1		this (these) semester course(s)	displayed in the course			Semester Units	1
	1		can be used. This information will	conversion guide, but will be	equivalency, this is the	(Current number of	(Number of semester	1
	1		also be displayed in the course	reflected on the PAWS as a choice for the student.	alternative course to allow for	units which are required for each	units which will be required for each	1
	1	O	conversion guide. Repeat rules		grade forgiveness/grade			l
	<u> </u>	Quarter Courses	apply.)	Repeat rules DO NOT apply.)	discounting.)	requirement area.)	requirement area.)	Notes
Computer Systems Core			T			4		
		CSE 201 CSE 202	CSE 2010 CSE 2020	CSE 2010 CSE 2020		4	3	
Lower Division Requirements	Required courses	MATH 211	MATH 2210	MATH 2210		4	4	
		MATH 262	MATH #262	MATH #262		4	3	
		MATH 272	MATH 2071	MATH 2071		4	3	
	Required courses	CSE 313	CSE 2130	CSE 2130		4	3	
		CSE 322	CSE 4050	CSE 4050		4	3	
Upper Division Requirements		CSE 330 CSE 455	CSE 2020 CSE 4550	CSE 2020		4	3	
opper Division Requirements	Required courses	CSE 482	CSE 4820	CSE 4550 CSE 4820		4	3	
	1	CSE 488	CSE 4880	CSE 4880		2	3	
		COMM 311	COMM #311	COMM #311		4	3	
					Total	46	37	
General Interdisciplinary Option (CS								
	Twenty-four units chosen from		1				l l	
	CSE courses numbered 300 and	CSE 300-599	CSE 3000-5999	CCC 2000 5000		24	15	
	above		CSE 3000-5999	CSE 3000-5990				
	Twenty-four units of coursework			Fifteen units of coursework in				
General Interdisciplinary Option (CSGI)	in another discipline such as a	Fifteen units of coursework in another	Fifteen units of coursework in	another discipline such as a				
	minor or other cohesive program	discipline such as a minor or other	another discipline such as a minor or	minor or other cohesive program		24	15	
	of study: subject to approval by the School of Computer Science and Engineering	cohesive program of study: subject to	other cohesive program of study:	of study: subject to approval by			i l	
		approval by the School of Computer	subject to approval by the School of	the School of Computer Science				
		Science and Engineering	Computer Science and Engineering	and Engineering	Total			
					Total	48	30	i
Game Development Option (CSGD)								
Game Development Option (CSGD)	1	Tan- 100	T		1	4		
	1	CSE 420 CSE 440	CSE 4200 CSE 4400			4	3	
	1	CSE 441	CSE 4410			4	3	
	Required courses	CSE 520	CSE 4200			4	3	
		MATH 212	MATH #212			4	4	
		MATH 251 MATH 331	MATH #251			4	3	
		MATH 331	MATH #331			4	4	
	Four units chosen from CSE	CSE 300-599	Nine units chosen from CSE courses			4	i l	
Game Development Option (CSGD)	courses number 300 and above	C2E 300-599	number 3000 and above	CSE 3000-5999		*	q	
		PHYS 121		PHYS #121		-	5	
	One course chosen from	PHYS 221	PHYS 2500	PHYS 2500		5	5	
	Twelve units of supporting			Six units of supporting				
	coursework such as 3D modeling,		Six units of supporting coursework	coursework such as 3D			i l	
	animation, level design, image	Six units of supporting coursework such as	such as 3D modeling, animation, level	modeling, animation, level		12	6	
	editing, and other coursework	3D modeling, animation, level design, image editing, and other coursework	design, image editing, and other coursework related to game	design, image editing, and other coursework related to game				
	related to game development.	related to game development.	development.	development.			i l	
		related to Barrie development.	,		Total	49	43	
								•
Graphics Programming Option (CSG	P)							
,		ART 120	ART #120			4	3	
		ART 232	ART #232			4	3	
		CSE 420	CSE 4200			4	3	
			CSE 4400				3	
		CSE 440				4		
Graphics Programming Ontion (CSCB)	Required courses	CSE 441	CSE 4410			4	3	
Graphics Programming Option (CSGP)	Required courses	CSE 441 CSE 520	CSE 4200			4	3	
Graphics Programming Option (CSGP)	Required courses	CSE 441 CSE 520 MATH 212 MATH 251	CSE 4200 MATH #212			4		
Graphics Programming Option (CSGP)	Required courses	CSE 441 CSE 520	CSE 4200			4 4 4	3	
Graphics Programming Option (CSGP)	Twelve units of additional art	CSE 441 CSE 520 MATH 212 MATH 331	CSE 4200 MATH #212 MATH #251 MATH #331	ART		4 4 4 4	3 3 3 3	
Graphics Programming Option (CSGP)		CSE 441 CSE 520 MATH 212 MATH 251	CSE 4200 MATH #212 MATH #251	ART		4 4 4 4 4 12	3 3 3 3 8	
Graphics Programming Option (CSGP)	Twelve units of additional art	CSE 441 CSE 520 MATH 212 MATH 331	CSE 4200 MATH #212 MATH #251 MATH #331		Total	4 4 4 4	3 3 3 3	
	Twelve units of additional art	CSE 441 CSE 520 MATH 212 MATH 331	CSE 4200 MATH #212 MATH #251 MATH #331		Total	4 4 4 4 4 12	3 3 3 3 8	
Graphics Programming Option (CSGP) Web Programming Option (CSWP)	Twelve units of additional art	CSE 441 CSE 520 MATH 212 MATH 251 MATH 331 ART	CSE 4200 MATH #251 MATH #351 ART		Total	4 4 4 4 4 12	3 3 3 3 8 8	
	Twelve units of additional art	CSE 441 CSE 520 MATH 212 MATH 213 MATH 331 ART	CSE 4200 MATH #212 MATH #251 MATH #331 ART CSE 4500	CSE 4500	Total	4 4 4 4 4 12 48	3 3 3 3 3 8 8	
	Twelve units of additional art	CSE 441 CSE 520 MATH 212 MATH 213 MATH 331 ART CSE 292 CSE 292 CSE 380	CSE 4200 MATH #212 MATH #251 MATH #351 ART CSE 4500 CSE 3650	CSE 4500 CSE 3650	Total	4 4 4 4 4 12	3 3 3 3 8 8	
	Twelve units of additional art	CSE 441 CSE 520 MATH 212 MATH 213 MATH 331 ART	CSE 4200 MATH #212 MATH #251 MATH #331 ART CSE 4500	CSE 4500	Total	4 4 4 4 4 12 48	3 3 3 3 3 8 8	
	Twelve units of additional art courses.	CSE 441 CSE 520 MATH 212 MATH 213 MATH 331 ART CSE 292 CSE 380 CSE 385 CSE 386 CSE 486 CSE 486	CSE 4500 MATH #312 MATH #351 MATH #351 ART CSE 4500 CSE 9500	CSE 4500 CSE 3650 CSE 3650 CSE 3660 CSE 4050	Total	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	3 3 3 3 8 8 35	
	Twelve units of additional art courses.	CSE 441 CSE 520 MATH 212 MATH 212 MATH 213 MATH 331 ART CSE 292 CSE 292 CSE 280 CSE 360 CSE 365 CSE 465 CSE 465 CSE 475 CSE 577	CSE 4200 MATH #212 MATH #251 MATH #251 MATH #251 ART CSE 4500 CSE 3850 CSE 3850 CSE 3850 CSE 3600 CSE 5720	CSE 4500 CSE 3650 CSE 3660 CSE 3660 CSE 4050 CSE 4720	Total	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	3 3 3 3 8 8 35	
	Twelve units of additional art courses. Required courses	CSE 441 CSE 520 MATH 212 MATH 213 MATH 331 ART CSE 292 CSE 380 CSE 385 CSE 386 CSE 486 CSE 486	CSE 4500 MATH #312 MATH #351 MATH #351 ART CSE 4500 CSE 9500	CSE 4500 CSE 3650 CSE 3650 CSE 3660 CSE 4050	Total	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	3 3 3 3 8 8 35	
Web Programming Option (CSWP)	Twelve units of additional art courses. Required courses Twelve units chosen from CSE	CSE 441 CSE 520 MATH 212 MATH 212 MATH 215 MATH 331 ART CSE 232 CSE 265 CSE 260 CSE 265 CSE 2	CSE 4200 MATH #212 MATH #251 MATH #251 MATH #251 ART CSE 4500 CSE 3850 CSE 3850 CSE 3850 CSE 3600 CSE 5720	CSE 4500 CSE 3650 CSE 3660 CSE 3660 CSE 4050 CSE 4720	Total	4 4 4 12 48 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	3 3 3 3 8 8 35 35 3 3 3 3 3 3 3 3 3 3	
Web Programming Option (CSWP)	Twelve units of additional art courses. Required courses	CSE 441 CSE 520 MATH 212 MATH 212 MATH 213 MATH 331 ART CSE 292 CSE 292 CSE 280 CSE 360 CSE 365 CSE 465 CSE 465 CSE 475 CSE 577	CSE 4200 MATH #212 MATH #251 MATH #251 MATH #251 ART CSE 4500 CSE 3850 CSE 3850 CSE 3850 CSE 3600 CSE 5720	CSE 4500 CSE 3650 CSE 3660 CSE 3660 CSE 4050 CSE 4720	Total	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	3 3 3 3 8 8 35	
Web Programming Option (CSWP)	Twelve units of additional art courses. Required courses Twelve units chosen from CSE courses numbered 300 and above	CSE 441 CSE 520 MATH 212 MATH 212 MATH 215 MATH 331 ART CSE 232 CSE 265 CSE 260 CSE 265 CSE 2	CSE 4000 MATH #312 MATH #351 MATH #351 ART CSE 4500 CSE 9500 CSE 9570 CSE 9570	CSE 4500 CSE 3650 CSE 3650 CSE 3660 CSE 3660 CSE 3720 CSE 3720 CSE 3720	Total	4 4 4 12 48 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	3 3 3 3 8 8 35 35 3 3 3 3 3 3 3 3 3 3	
Web Programming Option (CSWP)	Twelve units of additional art courses. Required courses Twelve units chosen from CSE	CSE 441 CSE 520 MATH 212 MATH 213 MATH 331 ART CSE 292 CSE 280 CSE 300-599	CSE 4000 MATH #312 MATH #351 MATH #351 ART CSE 4500 CSE 9500 CSE 9570 CSE 9570	CSE 4500 CSE 3650 CSE 3650 CSE 3650 CSE 3650 CSE 3650 CSE 3650 CSE 3720 CSE 5720 CSE 5720 CSE 5720	Total	4 4 4 4 4 12 48	3 3 3 3 8 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	
Web Programming Option (CSWP)	Twelve units of additional art courses. Required courses Twelve units chosen from CSE courses numbered 300 and above Eight units of art course (subject to approval by the Schook of Computer Science and	CSE 441 CSE 520 MATH 212 MATH 212 MATH 215 MATH 331 ART CSE 232 CSE 265 CSE 260 CSE 265 CSE 2	CSE 4000 MATH #312 MATH #351 MATH #331 ART CSE 4500 CSE 8500 CSE 8500 CSE 8500 CSE 9570 CSE 5770 CSE 5770 CSE 5000-5999	CSE 4500 CSE 3650 CSE 3650 CSE 3660 CSE 3660 CSE 3720 CSE 3720 CSE 3720	Total	4 4 4 12 48 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	3 3 3 3 8 8 35 35 3 3 3 3 3 3 3 3 3 3	
Web Programming Option (CSWP)	Twelve units of additional art courses. Required courses Twelve units chosen from CSE courses numbered 300 and above Eight units of art courses (subject to approval by the Schools of	CSE 441 CSE 520 MATH 212 MATH 213 MATH 331 ART CSE 292 CSE 280 CSE 300-599	CSE 4000 MATH #312 MATH #351 MATH #351 ART CSE 4500 CSE 9500 CSE 9570 CSE 9570	CSE 4500 CSE 8560 CSE 8560 CSE 8560 CSE 8560 CSE 4500 CSE 5720 CSE 5720 CSE 5720 CSE 5720 ART		4 4 4 4 4 12 12 48 4 4 4 4 4 4 4 4 4 4 4 12	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	
Web Programming Option (CSWP)	Twelve units of additional art courses. Required courses Twelve units chosen from CSE courses numbered 300 and above Eight units of art course (subject to approval by the Schook of Computer Science and	CSE 441 CSE 520 MATH 212 MATH 213 MATH 331 ART CSE 292 CSE 280 CSE 300-599	CSE 4000 MATH #312 MATH #351 MATH #331 ART CSE 4500 CSE 8500 CSE 8500 CSE 8500 CSE 9570 CSE 5770 CSE 5770 CSE 5000-5999	CSE 4500 CSE 8560 CSE 8560 CSE 8560 CSE 8560 CSE 4500 CSE 5720 CSE 5720 CSE 5720 CSE 5720 ART	Total	4 4 4 4 4 12 48	3 3 3 3 8 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	
Web Programming Option (CSWP) Web Programming Option (CSWP)	Twelve units of additional art courses. Required courses Twelve units chosen from CSE courses numbered 300 and above Eight units of art courses (subject to approval by the Schools of Computer Science and Engineering).	CSE 441 CSE 520 MATH 212 MATH 213 MATH 331 ART CSE 292 CSE 280 CSE 300-599	CSE 4000 MATH #312 MATH #351 MATH #331 ART CSE 4500 CSE 8500 CSE 8500 CSE 8500 CSE 9570 CSE 5770 CSE 5770 CSE 5000-5999	CSE 4500 CSE 8560 CSE 8560 CSE 8560 CSE 8560 CSE 4500 CSE 5720 CSE 5720 CSE 5720 CSE 5720 ART		4 4 4 4 4 12 12 48 4 4 4 4 4 4 4 4 4 4 4 12	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	
Web Programming Option (CSWP) Web Programming Option (CSWP)	Twelve units of additional art courses. Required courses Twelve units chosen from CSE courses numbered 300 and above Eight units of art courses (subject to approval by the Schools of Computer Science and Engineering).	CSE 441 CSE 530 MATH 212 MATH 212 MATH 213 MATH 331 ART CSE 792 CSE 880 CSE 8	CSE 4000 MATH #312 MATH #351 MATH #331 ART CSE 4500 CSE 8500 CSE 8500 CSE 8500 CSE 9570 CSE 5770 CSE 5770 CSE 5000-5999	CSE 4500 CSE 3550 CSE 3570 CSE 3770 ART		4 4 4 4 4 112 48 4 4 4 4 4 4 4 4 4 4 4 4 8 8	3 3 3 3 8 8 35 8 35 8 35 8 6 6 6	
Web Programming Option (CSWP) Web Programming Option (CSWP)	Twelve units of additional art courses. Required courses Twelve units chosen from CSE courses numbered 300 and above Eight units of art courses (subject to approval by the Schools of Computer Science and Engineering).	CSE 249 CSE 292 CSE 292 CSE 292 CSE 292 CSE 292 CSE 292 CSE 380 CSE 385 CSE 292	CSE 4000 MATH #212 MATH #251 MATH #251 ART CSE 4500 CSE 8500 CSE	CSE 4500 CSE 3850 CSE 3850 CSE 3850 CSE 4650 CSE 4650 CSE 5720		4 4 4 4 4 12 48 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	
Web Programming Option (CSWP) Web Programming Option (CSWP)	Twelve units of additional art courses. Required courses Twelve units chosen from CSE courses numbered 300 and above Eight units of art courses (subject to approval by the Schools of Computer Science and Engineering).	CSE 441 CSE 520 MATH 212 MATH 212 MATH 213 MATH 331 ART CSE 292 CSE 800 CSE 480 CSE 520 CSE 5	CSE 4000 MATH #312 MATH #351 MATH #331 ART CSE 4500 CSE 5500 CSE 5700 CSE	CSE 4500 CSE 3550 CSE 3550 CSE 3550 CSE 3550 CSE 3550 CSE 3550 CSE 3750 CSE 3750 CSE 3750 ART CSE 45000 CSE 45000 CSE 45000 CSE 45000 CSE 45000		4 4 4 4 4 112 48 4 4 4 4 4 4 4 4 4 4 4 4 8 8	3 3 3 3 8 8 35 8 35 8 35 8 6 6 6	
Web Programming Option (CSWP) Web Programming Option (CSWP)	Twelve units of additional art courses. Required courses Twelve units chosen from CSE courses numbered 300 and above Eight units of art courses (subject to approval by the Schools of Computer Science and Engineering).	CSE 249 CSE 292 CSE 292 CSE 292 CSE 292 CSE 292 CSE 292 CSE 380 CSE 385 CSE 292	CSE 4000 MATH #212 MATH #251 MATH #251 ART ART (SE 4500 CSE 8500 CSE 8500 CSE 8500 CSE 9500	CSE 4500 CSE 8550 CSE 8550 CSE 8560 CSE 8560 CSE 8570 CSE 5770 CSE 5770 CSE 5700 CSE 3000-5999 ART CSE 4500 CSE 4500 CSE 4500 CSE 5700		4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	3 3 3 3 8 8 35 35 3 3 3 3 3 3 3 3 3 3 3	
Web Programming Option (CSWP) Web Programming Option (CSWP)	Twelve units of additional art courses. Required courses Twelve units chosen from CSE courses numbered 300 and above Eight units of art courses (subject to approval by the Schools of Computer Science and Engineering).	CSE 249 CSE 299 CSE 390 CSE 299 CSE 299 CSE 299 CSE 299 CSE 299 CSE 390 CSE 299 CSE 290 CSE	CSE 4000 MATH #312 MATH #351 MATH #331 ART CSE 4500 CSE 5500 CSE 5700 CSE	CSE 4500 CSE 3550 CSE 3550 CSE 3550 CSE 3550 CSE 3550 CSE 3550 CSE 3750 CSE 3750 CSE 3750 ART CSE 45000 CSE 45000 CSE 45000 CSE 45000 CSE 45000		4 4 4 4 4 112 48 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	3 3 3 3 3 8 8 35 35 3 3 3 3 3 3 3 3 3 3	
Web Programming Option (CSWP) Web Programming Option (CSWP) System Administration Option (CSS)	Twelve units of additional art courses. Required courses Twelve units chosen from CSE courses numbered 300 and above Eight units of art courses (subject to approval by the Schools of Computer Science and Engineering).	CSE 441 CSE 520 MATH 212 MATH 212 MATH 213 MATH 331 ART CSE 292 CSE 380 CSE 480 CSE 480 CSE 480 CSE 480 CSE 529 CSE 5	CSE 4000 MATH #312 MATH #351 MATH #331 ART CSE 4500 CSE 5500 CSE 5500 CSE 5500 CSE 5700 CSE	CSE 4500 CSE 9550 CSE 9550 CSE 9550 CSE 9550 CSE 9550 CSE 9570 CSE 5720 CSE		4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	3 3 3 3 8 8 35 35 3 3 3 3 3 3 3 3 3 3 3	
Web Programming Option (CSWP) Web Programming Option (CSWP) System Administration Option (CSS)	Twelve units of additional art courses. Required courses Twelve units chosen from CSE courses numbered 300 and above Eight units of art courses (subject to approval by the Schools of Computer Science and Engineering).	CSE 441 CSE 520 MATH 212 MANTH 213 MANTH 231 ART CSE 292 CSE 380 CSE 380 CSE 380 CSE 480 CSE 580 CSE	CSE 4000 MATH #212 MATH #251 MATH #251 ART (SSE 4500 CSE 8500	CSE 4500 CSE 8560 CSE 8560 CSE 8560 CSE 8560 CSE 4560 CSE 5270 CSE 5720 CSE		4 4 4 4 112 48 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	3 3 3 3 8 8 35 35 3 3 3 3 3 3 3 3 3 3 4 4 3 3 3 3 3	
Web Programming Option (CSWP) Web Programming Option (CSWP)	Twelve units of additional art courses. Required courses Twelve units chosen from CSE courses numbered 300 and above Eight units of art courses (subject to approval by the Schools of Computer Science and Engineering).	CSE 441 CSE 520 MATH 212 MATH 212 MATH 213 MATH 331 ART CSE 292 CSE 380 CSE 3	CSE 4000 MATH #312 MATH #351 MATH #331 ART CSE 4500 CSE 9500 CSE	CE 4500 CE 1850 CE 1850 CE 1850 CE 1850 CE 2850 CE 270 CE 570		4 4 4 4 4 4 112 48 4 4 4 4 4 4 4 4 4 4 4 4 5 5 4 4 4 4	3 3 3 3 8 8 35 35 3 3 3 3 3 3 3 3 3 3 4 4 3 3 3 3 3	
Web Programming Option (CSWP) Web Programming Option (CSWP) System Administration Option (CSS)	Twelve units of additional art courses. Required courses Twelve units chosen from CSE courses numbered 300 and above Eight units of art courses (subject to approval by the Schools of Computer Science and Engineering).	CSE 292 CSE 300 CSE 300 MATH 213 MATH 213 MATH 231 MATH 331 ART CSE 292 CSE 300 CSE	CSE 4000 MATH #212 MATH #251 MATH #251 MATH #251 ART (SSE 4500 CSE 8550 CSE 8550 CSE 8550 CSE 8550 CSE 8500 CSE 8550 CSE 8500 CS	CSE 4500 CSE 3500 CSE 3500 CSE 3500 CSE 3500 CSE 3500 CSE 3700 CSE 3700 CSE 5720 CSE 5720 CSE 5720 CSE 3000-5999 ART CSE 4500 CSE 3500		4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	3 3 3 3 8 8 35 35 3 3 3 3 3 3 3 3 4 4 3 3 3 3 3 3 3	
Web Programming Option (CSWP) Web Programming Option (CSWP) System Administration Option (CSS)	Twelve units of additional art courses. Required courses Twelve units chosen from CSE courses numbered 300 and above Eight units of art courses (subject to approval by the Schools of Computer Science and Engineering).	CSE 441 CSE 520 MATH 212 MATH 212 MATH 213 MATH 331 ART CSE 292 CSE 380 CSE 3	CSE 4000 MATH #312 MATH #351 MATH #331 ART CSE 4500 CSE 9500 CSE	CE 4500 CE 1850 CE 1850 CE 1850 CE 1850 CE 2850 CE 270 CE 570		4 4 4 4 4 4 112 48 4 4 4 4 4 4 4 4 4 4 4 4 5 5 4 4 4 4	3 3 3 3 8 8 35 35 3 3 3 3 3 3 3 3 3 3 4 4 3 3 3 3 3	
Web Programming Option (CSWP) Web Programming Option (CSWP) System Administration Option (CSS)	Twelve units of additional art courses. Required courses Twelve units chosen from CSE courses numbered 300 and above Eight units of art courses (subject to approval by the Schools of Computer Science and Engineering). A) Required courses Eight units chosen from CSE	CSE 292 CSE 300 MATH 213 MATH 213 MATH 213 MATH 231 ART CSE 292 CSE 300 CSE	CSE 4000 MATH #212 MATH #251 MATH #251 MATH #251 ART (SSE 4500 CSE 8550 CSE 8550 CSE 8550 CSE 8550 CSE 8500 CSE 8550 CSE 8500 CS	CSE 4500 CSE 3500 CSE 3500 CSE 3500 CSE 3500 CSE 3500 CSE 3700 CSE 3700 CSE 5720 CSE 5720 CSE 5720 CSE 3000-5999 ART CSE 4500 CSE 3500		4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	3 3 3 3 8 8 35 35 3 3 3 3 3 3 3 3 4 4 3 3 3 3 3 3 3	
Web Programming Option (CSWP) Web Programming Option (CSWP) System Administration Option (CSS)	Twelve units of additional art courses. Required courses Twelve units chosen from CSE courses numbered 300 and above Eight units of art courses (subject to approval by the Schools of Computer Science and Engineering).	CSE 292 CSE 300 CSE 300 MATH 213 MATH 213 MATH 231 MATH 331 ART CSE 292 CSE 300 CSE	CSE 4000 MATH #121 MATH #311 MATH #311 ART CSE 4500 CSE 8500 CSE	CSE 4500 CSE 3550 CSE 3550 CSE 3550 CSE 3550 CSE 3570 CSE 3770 CSE 3770 CSE 3770 CSE 3000-5999 ART ART CSE 4500 CSE 3100 CSE 31		4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	3 3 3 3 3 8 8 35 35 3 3 3 3 3 3 3 3 3 3	
Web Programming Option (CSWP) Web Programming Option (CSWP) System Administration Option (CSS)	Twelve units of additional art courses. Required courses Twelve units chosen from CSE courses numbered 300 and above Eight units of art courses (subject to approval by the Schools of Computer Science and Engineering). A) Required courses Eight units chosen from CSE	CSE 292 CSE 300 MATH 213 MATH 213 MATH 213 MATH 231 ART CSE 292 CSE 300 CSE	CSE 4000 MATH #121 MATH #311 MATH #311 ART CSE 4500 CSE 8500 CSE	CSE 4500 CSE 3500 CSE 3500 CSE 3500 CSE 3500 CSE 3500 CSE 3700 CSE 3700 CSE 3700 CSE 3700 CSE 3700 CSE 3000-5999 ART ART CSE 4500 CSE 3100 CSE 3500 CSE 3700 CSE 3500 CSE 3700 CSE 3000-5999		4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	3 3 3 3 3 8 8 35 35 3 3 3 3 3 3 3 3 3 3	

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

			4.2	un ements (A1 2017 20)				
		Quarter Courses	Semester Course Equivalencies (Course is the same as the quarter course. This can be 1:1; Imany; 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. Not is information WILL NOT be displayed in the course conversion guide, but will be reflected on the PAWS as a choice for the students.	Acceptable Semester Course Repeats (If there is no semester course equivalency, this is the atternative 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
		Quarter Courses	арріу.)	кереастиез во нот арріу.)	uiscounting.)	requirement area.)	requirement area.)	Notes
COEN								
		CSE 201 CSE 202 CSE 208	CSE 2010 CSE 2020			4	4	
Lower Division Requirements		MATH 211 MATH 212	CSE 5208 MATH 2210 MATH #212			2 4 4	4 4	CSE 208+308+408->CSE 5208 + 5408
	Required courses	MATH 213 MATH 251	MATH #212 MATH #AppliedLinearAlgebra			4	4	Topics in CSE 251 are covered in Math #331
		MATH 262 MATH 272 PHYS 150	MATH #262 MATH 2071 CSE 4030			4 4 5	3 3 5	Topics in PHYS 150 are covered in CSE 4030
		PHYS 221 PHYS 222	PHYS 2500 + 2500L PHYS #222			5 5	5 5	
		PHYS 223 CSE 308	PHYS #222 CSE 5208			5 4	5 4	CSE 208, 308, 408 are converted 5208, 5408
		CSE 310 CSE 311	CSE 3100 CSE 5210			5 4	4	CSE 311 + CSE 521 -> CSE 5210
		CSE 313 CSE 330 CSE 335	CSE 2130 CSE 2020 CSE 3350			4 4 4	3 4 3	CSE 201 +202+330->CSE 2010+CSE 2020
Harar Divisia - Danisana	Described assume	CSE 401 CSE 403	CSE 4010 CSE 4030			5 4	4	
Upper Division Requirements	Required courses	CSE 408 CSE 456	CSE 5408 CSE 4560			4	4	
		CSE 460 CSE 521 CSE 535	CSE 4600 CSE 5210 CSE 5350 or CSE 4310			4	3 4	
		CSE 541 MATH 331	CSE 5410 MATH #AppliedLinearAlgebra			4 4 4	3 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 CSE 461	Nine units chosen from CSE 4000- level and above courses and not			12	9	
		CSE 500-599	previously taken.					

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

			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 hoice for the student. Repeat rules DO NOT apply.)	Acceptable Semester Course Repeats (If there is no semester course equivalency, this is the alternative course to allow for grade forgiveness/grade	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
CSCI								
ese.		CSE 201	CSE 2010			4	4	
			CSE 2010			4	4	
			MATH 2210			4	4	
	Required courses		MATH #212			4	4	
			MATH #212			4	4	
						4	3	
			MATH #262					
			MATH 2071			4	3	
Lower Division Requirements			PHYS 2500 + 2500L			5	5	
LOWER DIVISION REQUIREMENTS			PHYS #222			5	5	
		PHYS 223	PHYS #222			5	5	
	One Biology course chosen from		BIOL 1000 + 1000L			5	4	
		BIOL 200	BIOL 1000 + 1000L			,	•	
	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	
		CSE 310	CSE 3100			5	4	
	Required courses		CSE 2130			4	3	
Upper Division Requirements		CSE 320	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 4880			2	3	
		CSE 489	CSE 4880			2	3	
		CSE 500	CSE 5000			4	3	
		CSE 500 CSE 570	CSE 5000 CSE 5700					
						4	3	
			MATH #372			4	3	
	One course chosen from		CSE 4550 CSE 4550			4	3	
	Sixteen units chosen from CSE 400-level and above courses and not previously taken		Nine units chosen from CSE 4000- 5990 not already taken			16	9	