Computer Science 5 Year Plan of Study for ROTC Students

First Year

FALL			SPRING		
Course	**Course Title**	**Credits**	**Course**	**Course Title**	**Credits**
CHEM 1035	General Chemistry *Co: MATH 1025 or MATH 1225*	3	ENGE 1216	Foundations of Engineering **(C-)** *Pre: ENGE 1215* ***(C-)***	2
CHEM 1045	General Chemistry Lab *Co: CHEM 1035*	1	ENGL 1106	First-Year Writing *Pre: ENGL 1105*	3
ENGE 1215	Foundations of Engineering **(C-)**	2	MATH 1226	Calculus of a Single Variable *Pre: MATH 1225* ***(C-)***	4
MATH 1225	Calculus of a Single Variable **(C-)** *Pre: Math Ready*	4	PHYS 2305	Foundations of Physics *Pre: (MATH 1205 or MATH 1205H or MATH 1225) or (MATH 1206 or MATH 1206H or MATH 1226); Co: 2325, (MATH 1206 or MATH 1206H or MATH 1226)*	4
ENGL 1105	First-Year Writing	3			
	ROTC	Varies		ROTC	Varies
	Total Credit Hours	**13 - 18**		**Total Credit Hours**	**13 - 18**

Second Year

FALL			SPRING		
Course	**Course Title**	**Credits**	**Course**	**Course Title**	**Credits**
MATH 2204 **OR** CMDA 2005	Multivariable Calculus **OR** *Pre: MATH 1226* Integrated Quant. Sciences *Pre: MATH 1226; Co: MATH 2114*	3	CS 2114	Software Design & Data Struct **(C)** *Pre: CS 1114* ***(C)*** *or CS 1124* ***(C)***	3 [F,S,SI,SII]
			MATH 2534	Intro to Discrete Mathematics *Pre: CS 1114* ***(C)*** *or ECE 1574 (Note: Math double majors take MATH 3034)*	3 [F,S,SI]
MATH 2114	Intro to Linear Algebra *Pre: MATH 1225 (B) or MATH 1226*	3		Natural Science Elective	4
CS 1114 **OR** CS 2064	Intro to Software Design **(C)** **OR** Intermediate Python **(C)** *Pre: CS 1064*	3 [F,S,SI,SII]	CS 1944	First Year Seminar *Pre: CS 1114* ***(C)***	1 [F,S]
	Pathways 2/7	3			
	ROTC	Varies		ROTC	Varies
	Total Credit Hours	**12 - 16**		**Total Credit Hours**	**11 - 15**

Third Year

FALL			SPRING		
Course	**Course Title**	**Credits**	**Course**	**Course Title**	**Credits**
MATH 3134	Applied Combinatorics *Pre: (MATH 1206 or MATH 1226), (MATH 2534 or MATH 3034) (Notes: Math double majors take MATH 3124)*	3	CS 2506	Intro to Computer Org II **(C)** *Pre: 2505* ***(C)****, 2114* ***(C)****, (MATH 2534 or MATH 3034)*	3 [F,S]
CS 2104	Intro to Problem Solving in CS **(C)** *Pre: CS 1114* ***(C)****, MATH 1225*	3 [F,S,SI]	CS 3114	Data Structures & Algorithms **(C)** *Pre: 2505* ***(C)****, 2114* ***(C)****, (MATH 2534 or MATH 3034)*	3 [F,S,SI]
CS 2505	Intro to Computer Organization I **(C)** *Pre: CS 2114* ***(C)****; Co: MATH 2534 or MATH 3034*	3 [F,S,SI]		Communications Elective	3
	Pathways 2	3		Pathways 3	3
	ROTC	Varies		ROTC	Varies
	Total Credit Hours	**12 - 18**		**Total Credit Hours**	**12 - 18**

Fourth Year

FALL			SPRING		
Course	**Course Title**	**Credits**	**Course**	**Course Title**	**Credits**
CS 3214	Computer Systems *Pre: 2506* ***(C)****, 2114* ***(C)***	3 [F,S]	CS 3304	Comparative Languages *Pre: 3114* ***(C)***	3 [F,S]
CS 3604	Professionalism in Computing *Pre: 1944, 2114* ***(C)****, COMM 2004*	3 [F,S]		CS Theory Elective	3
CS 3/4/5XXX	Elective	3		Professional Writing Elective	3
	Pathways 6a	3		Pathways 3	3
	ROTC	Varies		ROTC	Varies
	Total Credit Hours	**12 - 18**		**Total Credit Hours**	**12 - 18**

Fifth Year

FALL			SPRING		
Course	**Course Title**	**Credits**	**Course**	**Course Title**	**Credits**
	Statistics Elective	2 OR 3	CS 4/5XXX	Elective	3
	CS Technical Elective	3	CS 4XXX	Capstone	3
CS 3/4/5XXX	Elective	3	CS 4944	Senior Seminar *Pre: 3604*	1 [F,S]
	Free Elective	3		Free Elective	4
	ROTC	Varies		ROTC	Varies
	Total Credit Hours	**11/12 - 13/14**		**Total Credit Hours**	**11 - 13**

This advising resource is based on the 2021-2022 Date of Entry or Graduation Year 2022 Checksheet.

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