

**TENTATIVE COMPUTER SCIENCE LONG TERM SCHEDULE
OF UPPER DIVISION COURSES**

300 Level Courses (undergraduate junior level; offered every semester)

400 Level Courses (undergraduate senior level; many, but not all, may be applied towards graduate degree)

COMP	Title	Fa 17	Sp 18	Fa 18	Sp 19	Fa 19	Sp 20	Fa 20	Sp 21	Fa 21	Sp 22
410	Logic Programming										
424	Computer System Security	x	x	x	x	x	x	x	x	x	x
426	Fault-Tolerant Software and Computing										
429	Computer Network Software	x	x	x	x	x	x	x	x	x	x
440	Database Design		x		x		x		x		x
450	Societal Issues in Computing										
465	Computer Graphic Systems and Design	x		x		x		x		x	
467	Multimedia Computing	x		x		x		x		x	
469	Introduction to Artificial Intelligence				x				x		
482	Algorithms (required course, not an elective)	x	x	x	x	x	x	x	x	x	x
484	Web Engineering I	x	x	x	x	x	x	x	x	x	x
485	Human-Computer Interaction	x	x	x	x	x	x	x	x	x	x
490/L	Senior Design Project (1st semester; 490L coreq)	x		x		x		x		x	
491L	Senior Design Project (2nd semester; lab only)		x		x		x		x		x
496ALG	Combinatorial Algorithms (replaced by 482)										
496ML	Machine Learning		x		x		x				
CIT											
196IT/L											
480/L	System Design Project (1st semester; 481 is req)	x		x		x		x		x	
481/L	System Design Project (2nd semester; 480 is req)		x		x		x		x		x
496SEC/L	Information Systems Security	x			x		x				

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500 Level Courses (graduate level; may also be applied towards undergraduate degree)

COMP	Title	Fa 17	Sp 18	Fa 18	Sp 19	Fa 19	Sp 20	Fa 20	Sp 21	Fa 21	Sp 22
529	Advanced Computer Networks		x		x		x		x		x
541	Data Mining	x	x	x	x	x	x	x	x	x	x
560	Expert Systems		x				x				x
565	Advanced Computer Graphics		x		x		x		x		x
581	Open Source Software Engr										
582	Software Requirements Analysis (was 682)	x		x		x		x		x	
583	Software Engineering Management (was 686)		x			x			x		
584	Advanced Web Engr		x		x		x		x		x
585	Graphical User Interface	x		x		x		x		x	
586	Object-Oriented Software Design	x		x		x		x		x	
587	Software Verification and Validation			x			x			x	
589	Software Metrics		x			x					
595MC	Mobile Computing		x		x						
598EA	Embedded Applications (to become COMP 522)		x		x		x		x		x
598NSP	Advanced Network Security Projects (to become COMP 539)	x		x		x		x		x	

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600 Level Courses (graduate level; may only be applied towards graduate degree)

COMP	Title	Fa 17	Fa 17	Fa 18	Sp 19	Fa 19	Sp 20	Fa 20	Sp 21	Fa 21	Sp 22
610	Data Structures and Algorithms		x		x		x		x		x
615	Advanced Topics in Computation Theory	x		x		x		x		x	
620	Computer System Architecture	x		x		x		x		x	
680	Software Engineering		x		x		x		x		x
684	Software Architecture and Design	x		x		x		x		x	

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400 level totals	10	9	9	11	9	10	9	9	9	8
500 level totals	5	9	6	6	7	7	5	6	6	6
400+500 level totals	15	18	15	17	16	17	14	15	15	14
600 level totals	3	2	3	2	3	2	3	2	3	2
400+500+600 level totals	18	20	18	19	19	19	17	17	18	16