

**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 22	Sp 23	Fa 23	Sp 24	Fa 24	Sp 25	Fa 25	Sp 26	Fa 26	Sp 27
410	Logic Programming	x		x		x		x		x	
424	Computer System Security	x	x	x	x	x	x	x	x	x	x
429	Computer Network Software	x	x	x	x	x	x	x	x	x	x
430	Language Design and Compilers		x		x		x		x		x
440	Database Design	x	x	x	x	x	x	x	x	x	x
442	Machine Learning Principles	x		x		x		x		x	
465	Computer Graphic Systems and Design	x		x		x		x		x	
467	Multimedia Systems Design	x		x		x		x		x	
469	Introduction to Artificial Intelligence		x		x		x		x		x
482	Algorithm Design and Analysis	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	Senior Design Project I (1st semester)	x		x		x		x		x	
491	Senior Design Project II (2nd semester)		x		x		x		x		x
492	Projects in Data Science		x		x		x		x		x
CIT											
425/L	Information and Systems Security	x	x	x	x	x	x	x	x	x	x
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
488*	Advanced Practicum in Information Technology				x				x		

* CIT 488 is cross-listed as COMP 488

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

COMP	Title	Fa 22	Sp 23	Fa 23	Sp 24	Fa 24	Sp 25	Fa 25	Sp 26	Fa 26	Sp 27
522	Embedded Applications		x		x		x		x		x
528	Mobile Computing			x			x				
529	Advanced Network Topics	x		x		x		x		x	
539	Network Infrastructure	x		x		x		x		x	
541	Data Mining	x	x	x	x	x	x	x	x	x	x
542	Machine Learning	x	x	x	x	x	x	x	x	x	x
560	Expert Systems				x				x		
565	Advanced Computer Graphics		x		x		x		x		x
582	Software Requirements Analysis and Specification	x		x		x		x		x	
583	Software Engineering Management		x		x		x		x		x
584	Advanced Web Engineering		x		x		x		x		x
585	Graphical User Interfaces	x		x		x		x		x	
586	Object-Oriented Software Development	x		x		x		x		x	
587	Software Verification and Validation	x		x		x		x		x	
589	Software Metrics		x		x		x		x		x
595DS	Advanced Concepts of Data Science		x		x		x		x		x

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

COMP	Title	Fa 22	Sp 23	Fa 23	Sp 24	Fa 24	Sp 25	Fa 25	Sp 26	Fa 26	Sp 27
610	Data Structures and Algorithms	x	x	x	x	x	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	x	x	x	x	x
680	Advanced Topics in Software Engineering		x		x		x		x		x
684	Software Architecture and Design	x		x		x		x		x	

400 level totals	13	12	13	13	13	12	13	13	13	13	12
500 level totals	8	8	9	9	8	8	9	9	8	8	8
400+500 level totals	21	20	22	22	21	20	22	22	21	20	20
600 level totals	4	3	4	3	4	3	4	3	4	3	3
400+500+600 level totals	25	23	26	25	25	23	26	25	25	23	23