

SAMPLE 4-YEAR PLAN: COMPUTER SCIENCE B.S.

Northern Kentucky University

This is an example of one way a student can complete this program in four years if the student requires no remedial courses.

MAJOR: Computer Science

FIRST YEAR	Fall Semester		Spring Semester		
	<p><i>Get to know your fellow students by attending departmental social events and student research talks. Make sure you allow time in your programming courses for experimentation and fun; that is the best way to learn.</i></p> <p>*INF 120 is recommended but not required to fulfill this Gen Ed. Students who test out of this course can take a different science course.</p>	MAT 119 Pre-Calculus Mathematics	3	Gen Ed: Scientific and Quantitative Inquiry; Mathematics and Statistics MAT 128 Calculus A	3
Gen Ed: Scientific and Quantitative Inquiry; Natural Sciences without lab INF 120 Elementary Programming*		3	CSC 260 Object-Oriented Programming I	3	
Gen Ed: Communication; Written I		3	CSC 260L Object-Oriented Programming Lab (<i>recommended</i>)	0-1	
INF 282 Introduction to Databases		3	Gen Ed: Communication; Oral	3	
Gen Ed: Culture and Creativity I		3	Gen Ed: Cultural Pluralism	3	
			Gen Ed: Culture and Creativity II	3	
TOTAL		15	TOTAL	15-16	
SECOND YEAR		Fall Semester		Spring Semester	
<p><i>Speak with your advisor and professors about possible co-op and research opportunities. Think carefully as you choose a minor. Try out for the programming team.</i></p>		CSC 360 Object Oriented Programming II	3	CSC 364 Data Structures and Algorithms	3
	INF 284 Introduction to Networks and Data Communication	3	INF 286 Intro to Web Development	3	
	MAT 227 Calculus B	3	MAT 228 Calculus C	3	
	Gen Ed: Communication; Written II	3	Gen Ed: Self and Society; Individual and Society I	3	
	Gen Ed: Global Viewpoints	3	Gen Ed: Scientific and Quantitative Inquiry; Natural Sciences with lab	4	
	TOTAL	15	TOTAL	16	
THIRD YEAR	Fall Semester		Spring Semester		
<p><i>Make a point to read professional publications like the Communications of the ACM, to stay abreast of new developments in the field. Consider becoming a mentor to newer students.</i></p>	CSC 362 Computer Systems	3	CSC 402 Advanced Programming Methods	3	
	STA 250 Probability and Statistics I	3	MAT 385 Discrete Mathematics	3	
	Gen Ed: Self and Society; Individual and Society II	3	CSC 460 Operating Systems	3	
	Minor	3	Minor	3	
	Minor	3	Minor 300 level or above	3	
	TOTAL	15	TOTAL	15	
FOURTH YEAR	Fall Semester		Spring Semester		
<p><i>Attend programs run by Career Services to get your resume in shape and polish your interviewing skills.</i></p>	CSC 439 Software Testing and Maintenance	3	CSC 440 Software Engineering	3	
	CSC 485 Theory of Computation	3	CSC 491 Comprehensive Exam	0	
	CSC elective 300 level or above	3	CSC elective 400 level	3	
	Minor 300 level or above	3	CSC elective 400 level	3	
	Minor 300 level or above	3	Minor 300 level or above	3	
			Minor or elective 300 level or above	3	
TOTAL	15	TOTAL	15		
			GRAND TOTAL OF CREDITS	121	

Notes:

This degree plan is for students who are admitted with ALEKS score placing a student in MAT 119. Students with a lower score will need to take additional mathematics; students with a higher score may be able to bypass MAT 119 and go directly into Calculus A.

A total of 45 credits in 300-level or above courses is required for graduation.

A total of 120 credits is required for graduation.