

# 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. Please Contact the program director if you have questions or would like advise on course sequencing.

**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>	Gen Ed: Scientific and Quantitative Inquiry; Mathematics and Statistics MAT 128 Calculus A	3	MAT 227 Calculus B
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
<b>TOTAL</b>		<b>15</b>	<b>TOTAL</b>	<b>15-16</b>
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 228 Calculus C	3	MAT 385 Discrete Mathematics	3
	Gen Ed: Communication; Written II	3	Gen Ed: Self and Society; Individual and Society II	3
	Gen Ed: Self and Society; Individual and Society I	3	Gen Ed: Scientific and Quantitative Inquiry; Natural Sciences with lab	4
	<b>TOTAL</b>	<b>15</b>	<b>TOTAL</b>	<b>16</b>
	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	CSC 460 Operating Systems	3
	CSC 485 Theory of Computation	3	CSC elective 300 level or above	3
	Minor	3	Minor or elective 300 level or above	3
	Minor	3	Minor or elective	3
	<b>TOTAL</b>	<b>15</b>	<b>TOTAL</b>	<b>15</b>
	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 elective 400 level	3	CSC 491 Comprehensive Exam	0
	Minor or elective 300 level or above	3	CSC elective 400 level	3
	Minor or elective	3	Minor or elective 300 level or above	3
	Gen Ed: Global Viewpoints	3	Minor or elective	3
			Minor or elective	1-2
	<b>TOTAL</b>	<b>15</b>	<b>TOTAL</b>	<b>14</b>
			<b>GRAND TOTAL OF CREDITS</b>	<b>120</b>

**Notes:**

*This degree plan is for students who are admitted with ALEKS score placing a student in MAT 128. Students with a lower score will need to take additional mathematics.*

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

*A total of 120 credits is required for graduation.*

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