

# SAMPLE 4-YEAR PLAN: COMPUTER INFORMATION TECHNOLOGY B.S.

## Northern Kentucky University

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

**MAJOR:** Computer Information Technology

**TRACK/OPTION:** Network and System Administration (scroll down to see plans for other tracks)

FIRST YEAR	Fall Semester		Spring Semester	
	<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>	Gen Ed: Scientific and Quantitative Inquiry; Mathematics and Statistics STA 205 or 212 (or 250)	3	CIT 247 Networking Fundamentals
CIT 130 Information Technology Fundamentals		3	Gen Ed: Self and Society; Individual and Society	3
Gen Ed: Communication; Written I		3	Gen Ed: Communication; Oral	3
Gen Ed: Scientific and Quantitative Inquiry; Natural Sciences without lab; INF 120 Elementary Programming		3	Gen Ed: Self and Society; Cultural Pluralism	3
Gen Ed: Culture and Creativity I		3	Gen Ed: Culture and Creativity II	3
<b>TOTAL</b>		<b>15</b>	<b>TOTAL</b>	<b>15</b>
SECOND YEAR	Fall Semester		Spring Semester	
<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 cyber defense team.</i>	CIT 271 Windows Administration	3	CIT 371 Unix Systems	3
	INF 282 Introduction to Databases	3	INF 286 Introduction to Web Development	3
	Gen Ed: Communication; Written II	3	PHI 210 Ethics of Information Technology	3
	Gen Ed: Self and Society; Individual and Society II	3	Minor	3
	Gen Ed: Global Viewpoints	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	
<i>Make a point to read professional IT publications such as Information Week, to stay abreast of new developments in the field. Consider becoming a mentor to newer students.</i>	CIT 383 Scripting I	3	CIT elective 300 level or above	3
	CIT 447 Network Design / Troubleshooting	3	CIT 480 Securing Computer Systems	3
	Minor	3	Minor or elective	3
	Minor	3	Minor or elective	3
	Minor or elective	3	Minor or elective 300 level or above	3
	<b>TOTAL</b>	<b>15</b>	<b>TOTAL</b>	<b>15</b>
FOURTH YEAR	Fall Semester		Spring Semester	
<i>Attend programs run by the Career Development Center to get your resume in shape and polish your interviewing skills.</i>	CIT 470 Advanced Network and System Administration	3	CIT 484 Network Security	3
	CIT elective 300 level or above	3	Free elective	2
	ENG 347 Technical Writing	3	CIT elective 300 level or above	3
	Minor or elective 300 level or above	3	Minor or elective 300 level or above	3
	Minor or elective 300 level or above	3	Minor or elective 300 level or above	3
	<b>TOTAL</b>	<b>15</b>	<b>TOTAL</b>	<b>14</b>
			<b>GRAND TOTAL OF CREDITS</b>	<b>120</b>
<i>Notes:</i> A total of 45 credits of courses 300 level or above are required for graduation.				

## Sample 4-Year Plan: Computer Information Technology B.S. – Web and Database Administration

### Northern Kentucky University

**MAJOR:** Computer Information Technology

**TRACK/OPTION:** Web and Database Administration

<b>FIRST YEAR</b>	<b>Fall Semester</b>		<b>Spring Semester</b>	
	<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>	Gen Ed: Scientific and Quantitative Inquiry; Mathematics and Statistics STA 205 or 212 (or 250)	3	CIT 247 Networking Fundamentals
CIT 130 Information Technology Fundamentals		3	Gen Ed: Self and Society; Individual and Society I	3
Gen Ed: Communication; Written Communication I		3	Gen Ed: Communication; Oral	3
Gen Ed: Scientific and Quantitative Inquiry; Natural Sciences without lab; INF 120 Elementary Programming		3	Gen Ed: Self and Society; Cultural Pluralism	3
Gen Ed: Culture and Creativity I		3	Gen Ed: Culture and Creativity II	3
<b>TOTAL</b>		<b>15</b>	<b>TOTAL</b>	<b>15</b>
<b>SECOND YEAR</b>	<b>Fall Semester</b>		<b>Spring Semester</b>	
<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 cyber defense team.</i>	CIT 271 Windows Administration	3	CIT 371 Unix Systems	3
	INF 282 Introduction to Databases	3	INF 286 Intro to Web Development	3
	Gen Ed: Communication; Written Communication II	3	PHI 210 Ethics in Information Technology	3
	CSC 260 Object-Oriented Programming I	3	Gen Ed: Self and Society; Individual and Society II	3
	Gen Ed: Global Viewpoints	3	Gen Ed: Scientific and Quantitative Inquiry; Natural Sciences with lab	4
	<b>TOTAL</b>	<b>15</b>	<b>TOTAL</b>	<b>16</b>
<b>THIRD YEAR</b>	<b>Fall Semester</b>		<b>Spring Semester</b>	
<i>Make a point to read professional IT publications such as Information Week, to stay abreast of new developments in the field. Consider becoming a mentor to newer students.</i>	CIT 383 Scripting I	3	CIT 483 Scripting II	3
	CSC 301 Web Programming	3	Minor	3
	Minor	3	Minor or elective	3
	Minor	3	Minor or elective 300 level or above	3
	Minor or elective 300 level or above	3	Minor or elective 300 level or above	3
	<b>TOTAL</b>	<b>15</b>	<b>TOTAL</b>	<b>15</b>
<b>FOURTH YEAR</b>	<b>Fall Semester</b>		<b>Spring Semester</b>	
<i>Attend programs run by Career Services to get your resume in shape and polish your interviewing skills.</i>	CIT 472 Database Administration	3	CIT 436 Web Server Administration	3
	CIT 480 Securing Computer Systems	3	CIT elective, 300 level or above	3
	ENG 347 Technical Writing	3	Free elective	2
	Minor or elective 300 level or above	3	Minor or elective 300 level or above	3
	Minor or elective 300 level or above	3	Minor or elective 300 level or above	3
	<b>TOTAL</b>	<b>15</b>	<b>TOTAL</b>	<b>14</b>
			<b>GRAND TOTAL OF CREDITS</b>	<b>120</b>
<i>Notes: A total of 45 credits of 300-level or above courses are required for graduation.</i>				

**Sample 4-Year Plan: Computer Information Technology B.S. – Cybersecurity**

**Northern Kentucky University**

**MAJOR:** Computer Information Technology

**TRACK/OPTION:** Cybersecurity

<b>FIRST YEAR</b>	<b>Fall Semester</b>		<b>Spring Semester</b>	
	<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>	Gen Ed: Scientific and Quantitative Inquiry; Mathematics and Statistics STA 205 or 212 (or 250)	3	CIT 247 Networking Fundamentals
CIT 130 Information Technology Fundamentals		3	Gen Ed: Self and Society; Individual and Society I	3
Gen Ed: Communication; Written Communication I		3	Gen Ed: Communication; Oral	3
Gen Ed: Scientific and Quantitative Inquiry; Natural Sciences without lab; INF 120 Elementary Programming		3	Gen Ed: Self and Society; Cultural Pluralism	3
Gen Ed: Culture and Creativity I		3	Gen Ed: Culture and Creativity II	3
<b>TOTAL</b>		<b>15</b>	<b>TOTAL</b>	<b>15</b>
<b>SECOND YEAR</b>	<b>Fall Semester</b>		<b>Spring Semester</b>	
<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 cyber defense team.</i>	CIT 271 Windows Administration	3	CIT 371 Unix Systems	3
	INF 282 Introduction to Databases	3	INF 286 Intro to Web Development	3
	Gen Ed: Communication; Written Communication II	3	PHI 210 Ethics in Information Technology	3
	Gen Ed: Self and Society; Individual and Society II	3	Minor	3
	Gen Ed: Global Viewpoints	3	Gen Ed: Scientific and Quantitative Inquiry; Natural Sciences with lab	4
	<b>TOTAL</b>	<b>15</b>	<b>TOTAL</b>	<b>16</b>
<b>THIRD YEAR</b>	<b>Fall Semester</b>		<b>Spring Semester</b>	
<i>Make a point to read professional IT publications such as Information Week, to stay abreast of new developments in the field. Consider becoming a mentor to newer students.</i>	CIT 480 Security Computer Systems	3	CIT 430 Computer Forensics	3
	CIT 383 Scripting I	3	CIT elective, 300 level or above	3
	Minor	3	Minor or elective	3
	Minor	3	Minor or elective 300 level or above	3
	Minor or elective 300 level or above	3	Minor or elective 300 level or above	3
	<b>TOTAL</b>	<b>15</b>	<b>TOTAL</b>	<b>15</b>
<b>FOURTH YEAR</b>	<b>Fall Semester</b>		<b>Spring Semester</b>	
<i>Attend programs run by Career Services to get your resume in shape and polish your interviewing skills.</i>	CIT 484 Network Security	3	CIT 481 Cybersecurity Capstone	3
	CIT elective, 300 level or above	3	CIT elective, 300 level or above	3
	ENG 347 Technical Writing	3	Free elective	2
	Minor or elective 300 level or above	3	Minor or elective 300 level or above	3
	Minor or elective 300 level or above	3	Minor or elective 300 level or above	3
	<b>TOTAL</b>	<b>15</b>	<b>TOTAL</b>	<b>14</b>
<b>GRAND TOTAL OF CREDITS</b>				<b>120</b>
<p><i>Notes:</i></p> <p><i>A total of 45 credits of 300-level or above courses are required for graduation.</i></p> <p><i>Any of BIS 382, CSC 482 and CSC 483 may count toward the CIT electives (300 level or above)</i></p>				

**Sample 4-Year Plan: Computer Information Technology B.S. – Non-specialist****Northern Kentucky University****MAJOR:** Computer Information Technology**TRACK/OPTION:** Non-specialist

<b>FIRST YEAR</b>	<b>Fall Semester</b>		<b>Spring Semester</b>	
<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>	Gen Ed: Scientific and Quantitative Inquiry; Mathematics and Statistics STA 205 or 212 (or 250)	3	CIT 247 Networking Fundamentals	3
	CIT 130 Information Technology Fundamentals	3	Gen Ed: Self and Society; Individual and Society I	3
	Gen Ed: Communication; Written Communication I	3	Gen Ed: Communication; Oral	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: Culture and Creativity I	3	Gen Ed: Culture and Creativity II	3
	<b>TOTAL</b>	<b>15</b>	<b>TOTAL</b>	<b>15</b>
<b>SECOND YEAR</b>	<b>Fall Semester</b>		<b>Spring Semester</b>	
<i>Speak with your advisor and professors about possible co-op and re-search opportunities. Think carefully as you choose a minor. Try out for the cyber defense team.</i>	CIT 271 Windows Administration	3	CIT 371 Unix Systems	3
	INF 282 Introduction to Databases	3	INF 286 Intro to Web Development	3
	Gen Ed: Self and Society; Cultural Pluralism	3	CIT 383 Scripting I	3
	Gen Ed: Communication; Written Communication II	3	PHI 210 Ethics in Information Technology	3
	Gen Ed: Global Viewpoints	3	Gen Ed: Scientific and Quantitative Inquiry; Natural Sciences with lab	4
	<b>TOTAL</b>	<b>15</b>	<b>TOTAL</b>	<b>16</b>
<b>THIRD YEAR</b>	<b>Fall Semester</b>		<b>Spring Semester</b>	
<i>Make a point to read professional IT publications such as Information Week, to stay abreast of new developments in the field. Consider becoming a mentor to newer students.</i>	CIT 483 Scripting II or CSC 360 Object-Oriented Programming II	3	CIT 436 Web Server Administration or CIT 438 Cloud Computing or CIT 472 Database Administration	3
	Gen Ed: Self and Society; Individual and Society II	3	Minor	3
	Minor	3	Minor or elective	3
	Minor	3	Minor or elective 300 level or above	3
	Minor or elective 300 level or above	3	Minor or elective 300 level or above	3
	<b>TOTAL</b>	<b>15</b>	<b>TOTAL</b>	<b>15</b>
	<b>FOURTH YEAR</b>	<b>Fall Semester</b>		<b>Spring Semester</b>
<i>Attend programs run by Career Services to get your resume in shape and polish your interviewing skills.</i>	CIT elective, 300 level or above	3	Free Elective	3
	CIT 480 Securing Computer Systems	3	CIT 470 Advanced Network and System Administration or CIT 481 Cybersecurity Capstone	3
	ENG 347 Technical Writing	3	CIT elective, 300 level or above	3
	Minor or elective 300 level or above	3	Minor or elective 300 level or above	3
	Minor or elective 300 level or above	3	Minor or elective 300 level or above	3
	<b>TOTAL</b>	<b>15</b>	<b>TOTAL</b>	<b>15</b>
			<b>GRAND TOTAL OF CREDITS</b>	<b>120</b>

Notes: A total of 45 credits of 300-level or above courses are required for graduation.