#### **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	
Get to know your fellow students by	Gen Ed: Scientific and Quantitative			
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.	Inquiry; Mathematics and Statistics			
	STA 205 or 212 (or 250)	3	CIT 247 Networking Fundamentals	3
	CIT 130 Information Technology		Gen Ed: Self and Society; Individual and	
	Fundamentals	3		3
	Gen Ed: Communication; Written I	3	Gen Ed: Communication; Oral	3
	Gen Ed: Scientific and Quantitative			
	Inquiry; Natural Sciences without lab;	_	Gen Ed: Self and Society; Cultural	_
	INF 120 Elementary Programming	3		3
	Gen Ed: Culture and Creativity I	3	, ,	3
	TOTAL	15	TOTAL	15
SECOND YEAR	Fall Semester		Spring Semester	
Speak with your advisor and profes-	CIT 271 Windows Administration	3	,	3
sors about possible co-op and re-	INF 282 Introduction to Databases		INF 286 Introduction to Web Development	3
search opportunities. Think carefully	Gen Ed: Communication; Written II	3	PHI 310 Ethics of Information Technology	3
as you choose a minor. Try out for the	Gen Ed: Self and Society; Individual and			
cyber defense team.	Society II	3		3
			Gen Ed: Scientific and Quantitative	
	Gen Ed: Global Viewpoints	3		4
	TOTAL	15	TOTAL	16
THIRD YEAR	Fall Semester		Spring Semester	
Make a point to read professional IT	CIT 383 Scripting I	3	CIT elective 300 level or above	3
publications such as Information	CIT 447 Network Design /			
Week, to stay abreast of new devel-	Troubleshooting	3	CIT 485 Advanced Cybersecurity	3
opments in the field. Consider becoming a mentor to newer students.	Gen Ed: Culture and Creativity II	3	Minor or elective	3
	Minor	3	Minor or elective	3
	ENG 347 Technical Writing	3	Minor or elective 300 level or above	3
	TOTAL	15	TOTAL	15
FOURTH YEAR	Fall Semester		Spring Semester	
Attend programs run by the Career	CIT 470 Advanced Network and System			
Development Center to get your re-	Administration	3	CIT 484 Network Security	3
sume in shape and polish your inter-	CIT elective 300 level or above		Free elective	2
viewing skills.	Minor or elective	3		3
	Minor or elective  Minor or elective 300 level or above		Minor or elective 300 level or above	<u>3</u>
	Minor or elective 300 level or above	3		3
		<u>ა</u>		ა 14
	TOTAL			

Notes:

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

A total of 120 credits of courses 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

FIRST YEAR	Fall Semester		Spring Semester		
Get to know your fellow students by attending departmental social events and student research talks. Make sure	Gen Ed: Scientific and Quantitative Inquiry; Mathematics and Statistics STA 205 or 212 (or 250)	3	CIT 247 Networking Fundamentals	3	
you allow time in your programming courses for experimentation and fun;	CIT 130 Information Technology Fundamentals	3	Gen Ed: Self and Society; Individual and Society I	3	
that is the best way to learn.	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	CIT 285 Cybersecurity Fundamentals	3	
	TOTAL	15	TOTAL	15	
SECOND YEAR	Fall Semester		Spring Semester		
Speak with your advisor and profes-	CIT 271 Windows Administration	3	CIT 371 Unix Systems	3	
sors about possible co-op and re-	INF 282 Introduction to Databases	3		3	
search opportunities. Think carefully as you choose a minor. Try out for the	Gen Ed: Communication; Written Communication II	3	PHI 310 Ethics in Information Technology	3	
cyber defense team.	CSC 260 Object-Oriented Programming I	3	Gen Ed: Self and Society; Individual and Society II	3	
	CSC 260 Object-Oriented Programming I Lab (recommended)	0-1	Gen Ed: Scientific and Quantitative Inquiry; Natural Sciences with lab	4	
	Gen Ed: Global Viewpoints	3			
	TOTAL	15-16	TOTAL	16	
THIRD YEAR	Fall Semester		Spring Semester		
Make a point to read professional IT	CIT 383 Scripting I	3	CIT 472 Database Administration	3	
publications such as Information	Gen Ed: Culture and Creativity II	3	CSC 301 Web Programming	3	
Week, to stay abreast of new devel-	ENG 347 Technical Writing	3	Minor or elective	3	
opments in the field. Consider becom-	Minor	3	Minor or elective 300 level or above	3	
ing a mentor to newer students.	Minor or elective 300 level or above	3	Minor or elective 300 level or above	3	
	TOTAL	15	TOTAL	15	
FOURTH YEAR	Fall Semester		Spring Semester		
Attend programs run by Career Ser-	CIT 483 Scripting II	3	CIT 436 Web Server Administration	3	
vices to get your resume in shape and polish your interviewing skills.	CIT 485 Advanced Cybersecurity	3	CIT elective, 300 level or above or CSC 456 Advanced Web Application Development	3	
	Minor	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	
	TOTAL	15	TOTAL	14	
			GRAND TOTAL OF CREDITS	120	

## Notes:

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

A total of 120 credits of courses are required for graduation.

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

### **Northern Kentucky University**

MAJOR: Computer Information Technology

TRACK/OPTION: Cybersecurity

FIRST YEAR	Fall Semester		Spring Semester	
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.	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	Gen Ed: Self and Society; Cultural Pluralism	3
	Gen Ed: Culture and Creativity I	3	CIT 285 Cybersecurity Fundamentals	3
	TOTAL	15	TOTAL	15
SECOND YEAR	Fall Semester		Spring Semester	
Speak with your advisor and profes-	CIT 271 Windows Administration	3	CIT 371 Unix Systems	3
sors about possible co-op and re-	INF 282 Introduction to Databases	3	INF 286 Intro to Web Development	3
search opportunities. Think carefully as you choose a minor. Try out for the cyber defense team.	Gen Ed: Communication; Written Communication II	3	PHI 310 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
	TOTAL	15	TOTAL	16
THIRD YEAR	Fall Semester		Spring Semester	
Make a point to read professional IT	CIT 480 Security Computer Systems	3	CIT 430 Computer Forensics	3
publications such as Information  Week, to stay abreast of new devel-	CIT 383 Scripting I	3	CIT elective, 300 level or above	3
	Gen Ed: Culture and Creativity II	3	Minor or elective	3
opments in the field. Consider becom-	ENG 347 Technical Writing	3	Minor or elective 300 level or above	3
ing a mentor to newer students.	Minor or elective 300 level or above	3	Minor or elective 300 level or above	3
	TOTAL	15	TOTAL	15
FOURTH YEAR	Fall Semester		Spring Semester	
Attend programs run by Career Ser-	CIT 484 Network Security	3	CIT 485 Advanced Cybersecurity	3
vices to get your resume in shape and	CIT elective, 300 level or above	3	CIT elective, 300 level or above	3
polish your interviewing skills.	Minor	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
	TOTAL	15	_	14
			GRAND TOTAL OF CREDITS	120

### Notes:

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

A total of 120 credits of courses are required for graduation.

Any of BIS 382, CSC 482 and CSC 483 may count toward the CIT electives (300 level or above)

### **Northern Kentucky University**

**MAJOR:** Computer Information Technology

TRACK/OPTION: Non-specialist

FIRST YEAR	Fall Semester		Spring Semester	
Get to know your fellow students by attending departmental social events and student research talks. Make sure you allow time in your programming	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	3	Gen Ed: Self and Society; Individual and	3
courses for experimentation and fun;	Fundamentals  Gen Ed: Communication; Written		Society I Gen Ed: Communication; Oral	
that is the best way to learn.	Communication I	3	don Ed. dominamodion, ordi	3
	Gen Ed: Scientific and Quantitative		CSC 260 Object-Oriented Programming I	
	Inquiry; Natural Sciences without lab; INF 120 Elementary Programming	3		3
	Gen Ed: Culture and Creativity I	3	CSC 260L Object-Oriented Programming I	0.1
	·	3	Lab (recommended)	0-1
			CIT 285 Cybersecurity Fundamentals	3
	TOTAL	15	TOTAL	15-16
SECOND YEAR	Fall Semester		Spring Semester	
Speak with your advisor and profes-	CIT 271 Windows Administration			3
sors about possible co-op and re-	INF 282 Introduction to Databases	3	INF 286 Intro to Web Development	3
search opportunities. Think carefully as you choose a minor. Try out for the	Gen Ed: Self and Society; Cultural Pluralism	3	CIT 383 Scripting I	3
cyber defense team.	Gen Ed: Communication; Written Communication II	3	PHI 310 Ethics in Information Technology	3
	Minor	3	Gen Ed: Scientific and Quantitative Inquiry; Natural Sciences with lab	4
	TOTAL	15	TOTAL	16
THIRD YEAR	Fall Semester		Spring Semester	
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.	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	Gen Ed: Global Viewpoints	3
ing a mentor to newer students.	ENG 347 Technical Writing	3	Minor or elective	3
ing a mentor to newer students.	Minor	3	Minor or elective Minor or elective 300 level or above	3
ing a mentor to newer students.	Minor Minor or elective 300 level or above	3	Minor or elective 300 level or above Minor or elective 300 level or above	3 3
ing a mentor to newer students.	Minor	3	Minor or elective 300 level or above	3
FOURTH YEAR	Minor Minor or elective 300 level or above	3	Minor or elective 300 level or above Minor or elective 300 level or above	3
FOURTH YEAR	Minor Minor or elective 300 level or above TOTAL	3 3 <b>15</b>	Minor or elective 300 level or above Minor or elective 300 level or above TOTAL	3 15
FOURTH YEAR  Attend programs run by Career Services to get your resume in shape and	Minor Minor or elective 300 level or above TOTAL Fall Semester	3 3 <b>15</b>	Minor or elective 300 level or above Minor or elective 300 level or above  TOTAL  Spring Semester  Free Elective CIT 470 Advanced Network and System	3
FOURTH YEAR  Attend programs run by Career Services to get your resume in shape and	Minor Minor or elective 300 level or above TOTAL  Fall Semester CIT elective, 300 level or above	3 3 15 3 3	Minor or elective 300 level or above Minor or elective 300 level or above  TOTAL  Spring Semester  Free Elective	3 3 15 3
FOURTH YEAR Attend programs run by Career Ser-	Minor Minor or elective 300 level or above TOTAL  Fall Semester CIT elective, 300 level or above CIT 485 Advanced Cybersecurity	3 3 15 3 3	Minor or elective 300 level or above Minor or elective 300 level or above  TOTAL  Spring Semester  Free Elective CIT 470 Advanced Network and System Administration	3 15 3 3
FOURTH YEAR  Attend programs run by Career Services to get your resume in shape and	Minor Minor or elective 300 level or above TOTAL  Fall Semester CIT elective, 300 level or above CIT 485 Advanced Cybersecurity  Gen Ed: Culture and Creativity II	3 3 15 3 3	Minor or elective 300 level or above Minor or elective 300 level or above  TOTAL  Spring Semester  Free Elective CIT 470 Advanced Network and System Administration CIT elective, 300 level or above	3 3 15

Notes:

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

A total of 120 credits of courses are required for graduation.