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		
Get to know your fellow students by	Gen Ed: Scientific and Quantitative				
attending departmental social events	Inquiry; Mathematics and Statistics				
and student research talks. Make sure	STA 205 or 212 (or 250)	3	3	3	
you allow time in your programming	CIT 130 Information Technology		Gen Ed: Self and Society; Individual and		
courses for experimentation and fun;	Fundamentals	3		3	
that is the best way to learn.	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	Gen Ed: Culture and Creativity II	3	
	TOTAL	15	TOTAL	15	
SECOND YEAR	Fall Semester		Spring Semester		
Speak with your advisor and profes-	CIT 271 Windows Administration		CIT 371 Unix Systems	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 210 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	
9,20, 40,0,00 104,			Gen Ed: Scientific and Quantitative		
	Gen Ed: Global Viewpoints	3	1 7	4	
	Gen Ed: Global Viewpoints TOTAL	3 15	Inquiry; Natural Sciences with lab TOTAL	4 16	
THIRD YEAR			TOTAL Spring Semester	16	
	Fall Semester CIT 383 Scripting I		TOTAL	16	
THIRD YEAR Make a point to read professional IT publications such as Information	Fall Semester CIT 383 Scripting I CIT 447 Network Design /	15	Spring Semester CIT elective 300 level or above	3	
Make a point to read professional IT	Fall Semester CIT 383 Scripting I	3	Spring Semester CIT elective 300 level or above CIT 480 Securing Computer Systems	3	
Make a point to read professional IT publications such as Information	Fall Semester CIT 383 Scripting I CIT 447 Network Design /	3 3 3	Spring Semester CIT elective 300 level or above CIT 480 Securing Computer Systems Minor or elective	3 3 3	
Make a point to read professional IT publications such as Information Week, to stay abreast of new devel-	Fall Semester CIT 383 Scripting I CIT 447 Network Design / Troubleshooting	3 3 3 3	Spring Semester CIT elective 300 level or above CIT 480 Securing Computer Systems Minor or elective Minor or elective	3 3 3 3	
Make a point to read professional IT publications such as Information Week, to stay abreast of new developments in the field. Consider becom-	Fall Semester CIT 383 Scripting I CIT 447 Network Design / Troubleshooting Minor Minor Minor Minor or elective	3 3 3	Spring Semester CIT elective 300 level or above CIT 480 Securing Computer Systems Minor or elective Minor or elective Minor or elective 300 level or above	3 3 3 3 3 3	
Make a point to read professional IT publications such as Information Week, to stay abreast of new developments in the field. Consider becom-	Fall Semester CIT 383 Scripting I CIT 447 Network Design / Troubleshooting Minor Minor	3 3 3 3	Spring Semester CIT elective 300 level or above CIT 480 Securing Computer Systems Minor or elective Minor or elective	3 3 3	
Make a point to read professional IT publications such as Information Week, to stay abreast of new developments in the field. Consider becom-	Fall Semester CIT 383 Scripting I CIT 447 Network Design / Troubleshooting Minor Minor Minor Minor or elective	3 3 3 3 3	Spring Semester CIT elective 300 level or above CIT 480 Securing Computer Systems Minor or elective Minor or elective Minor or elective 300 level or above	3 3 3 3 3 3	
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. FOURTH YEAR	Fall Semester CIT 383 Scripting I CIT 447 Network Design / Troubleshooting Minor Minor Minor Minor or elective TOTAL	3 3 3 3 3	Spring Semester CIT elective 300 level or above CIT 480 Securing Computer Systems Minor or elective Minor or elective Minor or elective 300 level or above TOTAL	3 3 3 3 3 3	
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. FOURTH YEAR Attend programs run by the Career	Fall Semester CIT 383 Scripting I CIT 447 Network Design / Troubleshooting Minor Minor Minor or elective TOTAL Fall Semester	3 3 3 3 3	Spring Semester CIT elective 300 level or above CIT 480 Securing Computer Systems Minor or elective Minor or elective Minor or elective 300 level or above TOTAL Spring Semester	3 3 3 3 3 15	
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. FOURTH YEAR	Fall Semester CIT 383 Scripting I CIT 447 Network Design / Troubleshooting Minor Minor Minor or elective TOTAL Fall Semester CIT 470 Advanced Network and System	3 3 3 3 3 3 15	Spring Semester CIT elective 300 level or above CIT 480 Securing Computer Systems Minor or elective Minor or elective Minor or elective 300 level or above TOTAL Spring Semester CIT 484 Network Security	3 3 3 3 3 3 15	
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. FOURTH YEAR Attend programs run by the Career Development Center to get your re-	Fall Semester CIT 383 Scripting I CIT 447 Network Design / Troubleshooting Minor Minor Minor or elective TOTAL Fall Semester CIT 470 Advanced Network and System Administration CIT elective 300 level or above ENG 347 Technical Writing	3 3 3 3 3 15	Spring Semester CIT elective 300 level or above CIT 480 Securing Computer Systems Minor or elective Minor or elective Minor or elective 300 level or above TOTAL Spring Semester CIT 484 Network Security Free elective CIT elective 300 level or above	3 3 3 3 3 3 15	
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. FOURTH YEAR Attend programs run by the Career Development Center to get your resume in shape and polish your inter-	Fall Semester CIT 383 Scripting I CIT 447 Network Design / Troubleshooting Minor Minor Minor or elective TOTAL Fall Semester CIT 470 Advanced Network and System Administration CIT elective 300 level or above	3 3 3 3 3 3 15	Spring Semester CIT elective 300 level or above CIT 480 Securing Computer Systems Minor or elective Minor or elective Minor or elective 300 level or above TOTAL Spring Semester CIT 484 Network Security Free elective CIT elective 300 level or above	3 3 3 3 3 15	
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. FOURTH YEAR Attend programs run by the Career Development Center to get your resume in shape and polish your inter-	Fall Semester CIT 383 Scripting I CIT 447 Network Design / Troubleshooting Minor Minor Minor or elective TOTAL Fall Semester CIT 470 Advanced Network and System Administration CIT elective 300 level or above ENG 347 Technical Writing	3 3 3 3 3 15	Spring Semester CIT elective 300 level or above CIT 480 Securing Computer Systems Minor or elective Minor or elective Minor or elective 300 level or above TOTAL Spring Semester CIT 484 Network Security Free elective CIT elective 300 level or above Minor or elective 300 level or above	3 3 3 3 3 15	
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. FOURTH YEAR Attend programs run by the Career Development Center to get your resume in shape and polish your inter-	Fall Semester CIT 383 Scripting I CIT 447 Network Design / Troubleshooting Minor Minor Minor or elective TOTAL Fall Semester CIT 470 Advanced Network and System Administration CIT elective 300 level or above ENG 347 Technical Writing Minor or elective 300 level or above	3 3 3 3 3 15	Spring Semester CIT elective 300 level or above CIT 480 Securing Computer Systems Minor or elective Minor or elective Minor or elective 300 level or above TOTAL Spring Semester CIT 484 Network Security Free elective CIT elective 300 level or above Minor or elective 300 level or above	3 3 3 3 3 15	

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 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	Gen Ed: Culture and Creativity II	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	3		3	
sors about possible co-op and re- search opportunities. Think carefully as you choose a minor. Try out for the cyber defense team.	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	
	TOTAL	15	TOTAL	16	
THIRD YEAR	Fall Semester		Spring Semester		
Make a point to read professional IT	CIT 383 Scripting I	3	1 0	3	
publications such as Information	CSC 301 Web Programming	3		3	
Week, to stay abreast of new devel-	Minor	3		3	
opments in the field. Consider becom-	Minor	3		3	
ing a mentor to newer students.	Minor or elective 300 level or above	3		3	
	TOTAL	15	TOTAL	15	
FOURTH YEAR Attend programs run by Career Ser-	Fall Semester		Spring Semester		
	CIT 472 Database Administration	3		3	
vices to get your resume in shape and	CIT 480 Securing Computer Systems	3		3	
polish your interviewing skills.	ENG 347 Technical Writing		Free elective	2	
	Minor or elective 300 level or above	3		3	
	Minor or elective 300 level or above	3		3	
	TOTAL	15	TOTAL	14	
			GRAND TOTAL OF CREDITS	120	

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	Gen Ed: Scientific and Quantitative Inquiry; Mathematics and Statistics	3	CIT 247 Networking Fundamentals	3
and student research talks. Make sure	STA 205 or 212 (or 250)			
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	Gen Ed: Culture and Creativity II	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		INF 286 Intro to Web Development	3
sors about possible co-op and re- search opportunities. Think carefully as you choose a minor. Try out for the cyber defense team.	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
	TOTAL	15		16
THIRD YEAR	Fall Semester		Spring Semester	
Make a point to read professional IT	CIT 480 Security Computer Systems	3		3
publications such as Information	CIT 383 Scripting I	3	CIT elective, 300 level or above	3
Week, to stay abreast of new devel-	Minor	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 484 Network Security	3	CIT 481 Cybersecurity Capstone	3
vices to get your resume in shape and	CIT elective, 300 level or above		CIT elective, 300 level or above	3
polish your interviewing skills.	ENG 347 Technical Writing		Free elective	2
, ,	Minor or elective 300 level or above	3		3
	Minor or elective 300 level or above		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.

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

Sample 4-Year Plan: Computer Information Technology B.S. – Non-specialist

Northern Kentucky University

MAJOR: Computer Information Technology

TRACK/OPTION: Non-specialist

FIRST YEAR	Fall Semester		Spring Semester	
Get to know your fellow students by	Gen Ed: Scientific and Quantitative		CIT 247 Networking Fundamentals	
attending departmental social events	Inquiry; Mathematics and Statistics	3		
and student research talks. Make sure	STA 205 or 212 (or 250)			
you allow time in your programming	CIT 130 Information Technology	3	Gen Ed: Self and Society; Individual and	
courses for experimentation and fun;	Fundamentals	3	Society I	
that is the best way to learn.	Gen Ed: Communication; Written	3	Gen Ed: Communication; Oral	
,	Communication I	3		
	Gen Ed: Scientific and Quantitative		CSC 260 Object-Oriented Programming I	
	Inquiry; Natural Sciences without lab;	3		
	INF 120 Elementary Programming			
	Gen Ed: Culture and Creativity I	3	,	
	TOTAL	15	TOTAL	1
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		
search opportunities. Think carefully	Gen Ed: Self and Society; Cultural	3	CIT 383 Scripting I	
as you choose a minor. Try out for the	Pluralism	3		
cyber defense team.	Gen Ed: Communication; Written	3	PHI 210 Ethics in Information Technology	
,	Communication II	3		
	Gen Ed: Global Viewpoints	3	Gen Ed: Scientific and Quantitative Inquiry;	
		3	Natural Sciences with lab	
	TOTAL	15	TOTAL	1
THIRD YEAR	Fall Semester		Spring Semester	
IIIIND I LAII				
			CIT 436 Web Server Administration or CIT	
Make a point to read professional IT	CIT 483 Scripting II or CSC 360 Object-	3	438 Cloud Computing	
Make a point to read professional IT outlinessions such as Information	Oriented Programming II	3	438 Cloud Computing or CIT 472 Database Administration	
Make a point to read professional IT oublications such as Information Week, to stay abreast of new devel-	Oriented Programming II Gen Ed: Self and Society; Individual and		438 Cloud Computing	
Make a point to read professional IT oublications such as Information Week, to stay abreast of new developments in the field. Consider becom-	Oriented Programming II Gen Ed: Self and Society; Individual and Society II	3	438 Cloud Computing or CIT 472 Database Administration Minor	
Make a point to read professional IT oublications such as Information Week, to stay abreast of new developments in the field. Consider becom-	Oriented Programming II Gen Ed: Self and Society; Individual and		438 Cloud Computing or CIT 472 Database Administration Minor Minor or elective	
Make a point to read professional IT oublications such as Information Week, to stay abreast of new developments in the field. Consider becom-	Oriented Programming II Gen Ed: Self and Society; Individual and Society II	3	438 Cloud Computing or CIT 472 Database Administration Minor Minor or elective	
Make a point to read professional IT oublications such as Information Week, to stay abreast of new developments in the field. Consider becom-	Oriented Programming II Gen Ed: Self and Society; Individual and Society II Minor Minor Minor or elective 300 level or above	3	438 Cloud Computing or CIT 472 Database Administration Minor Minor or elective Minor or elective 300 level or above Minor or elective 300 level or above	
Make a point to read professional IT oublications such as Information Week, to stay abreast of new developments in the field. Consider becom-	Oriented Programming II Gen Ed: Self and Society; Individual and Society II Minor Minor	3 3	438 Cloud Computing or CIT 472 Database Administration Minor Minor or elective Minor or elective 300 level or above	
Make a point to read professional IT oublications such as Information Week, to stay abreast of new developments in the field. Consider becom-	Oriented Programming II Gen Ed: Self and Society; Individual and Society II Minor Minor Minor or elective 300 level or above	3 3 3	438 Cloud Computing or CIT 472 Database Administration Minor Minor or elective Minor or elective 300 level or above Minor or elective 300 level or above TOTAL	
Make a point to read professional IT oublications such as Information Week, to stay abreast of new developments in the field. Consider becoming a mentor to newer students. FOURTH YEAR	Oriented Programming II Gen Ed: Self and Society; Individual and Society II Minor Minor Minor or elective 300 level or above TOTAL	3 3 3	438 Cloud Computing or CIT 472 Database Administration Minor Minor or elective Minor or elective 300 level or above Minor or elective 300 level or above TOTAL Spring Semester	1
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. FOURTH YEAR Attend programs run by Career Ser-	Oriented Programming II Gen Ed: Self and Society; Individual and Society II Minor Minor Minor or elective 300 level or above TOTAL Fall Semester	3 3 3 15	438 Cloud Computing or CIT 472 Database Administration Minor Minor or elective Minor or elective 300 level or above Minor or elective 300 level or above TOTAL 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. FOURTH YEAR Attend programs run by Career Services to get your resume in shape and	Oriented Programming II Gen Ed: Self and Society; Individual and Society II Minor Minor Minor or elective 300 level or above TOTAL Fall Semester CIT elective, 300 level or above	3 3 3 15	438 Cloud Computing or CIT 472 Database Administration Minor Minor or elective 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	
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. FOURTH YEAR Attend programs run by Career Services to get your resume in shape and	Oriented Programming II Gen Ed: Self and Society; Individual and Society II Minor Minor Minor or elective 300 level or above TOTAL Fall Semester CIT elective, 300 level or above	3 3 3 15	438 Cloud Computing or CIT 472 Database Administration Minor Minor or elective 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	
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. FOURTH YEAR Attend programs run by Career Services to get your resume in shape and	Oriented Programming II Gen Ed: Self and Society; Individual and Society II Minor Minor Minor or elective 300 level or above TOTAL Fall Semester CIT elective, 300 level or above	3 3 3 15	438 Cloud Computing or CIT 472 Database Administration Minor Minor or elective 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	1
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. FOURTH YEAR Attend programs run by Career Services to get your resume in shape and	Oriented Programming II Gen Ed: Self and Society; Individual and Society II Minor Minor Minor or elective 300 level or above TOTAL Fall Semester CIT elective, 300 level or above CIT 480 Securing Computer Systems	3 3 3 15 3 3	438 Cloud Computing or CIT 472 Database Administration Minor Minor or elective 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 or CIT 481 Cybersecurity Capstone	1
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. FOURTH YEAR Attend programs run by Career Services to get your resume in shape and	Oriented Programming II Gen Ed: Self and Society; Individual and Society II Minor Minor Minor or elective 300 level or above TOTAL Fall Semester CIT elective, 300 level or above CIT 480 Securing Computer Systems ENG 347 Technical Writing	3 3 3 15 3 3	438 Cloud Computing or CIT 472 Database Administration Minor Minor or elective 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 or CIT 481 Cybersecurity Capstone CIT elective, 300 level or above Minor or elective 300 level or above	1
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.	Oriented Programming II Gen Ed: Self and Society; Individual and Society II Minor Minor Minor or elective 300 level or above TOTAL Fall Semester CIT elective, 300 level or above CIT 480 Securing Computer Systems ENG 347 Technical Writing Minor or elective 300 level or above	3 3 3 15 3 3 3	438 Cloud Computing or CIT 472 Database Administration Minor Minor or elective 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 or CIT 481 Cybersecurity Capstone CIT elective, 300 level or above Minor or elective 300 level or above	1