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 250)	3	CIT 247 Networking Fundamentals	;	
you allow time in your programming	CIT 130 Information Technology		Gen Ed: Self and Society; Individual and		
courses for experimentation and fun;	Fundamentals	3	Society	;	
that is the best way to learn.	Gen Ed: Communication; Written I	3	Gen Ed: Communication; Oral	;	
ŕ	Gen Ed: Scientific and Quantitative				
	Inquiry; Natural Sciences without lab;		Gen Ed: Self and Society; Cultural		
	INF 120 Elementary Programming	3	Pluralism		
	Gen Ed: Culture and Creativity I	3	CIT 285 Cybersecurity Fundamentals		
	TOTAL	15	TOTAL	1	
SECOND YEAR	AR Fall Semester Spring Seme		Spring Semester		
Speak with your advisor and profes-	CIT 271 Windows Administration	3	CIT 371 Unix Systems		
sors about possible co-op and re-			INF 286 Introduction to Web		
search opportunities. Think carefully	INF 282 Introduction to Databases	3	Development		
as you choose a minor. Try out for the	Gen Ed: Communication; Written II	3	PHI 310 Ethics of Information Technology		
cyber defense team.	Gen Ed: Self and Society; Individual and				
	Society II	3	Minor or elective		
			Gen Ed: Scientific and Quantitative		
	Gen Ed: Global Viewpoints	3	Inquiry; Natural Sciences with lab		
	TOTAL 15		TOTAL	10	
THIRD YEAR	Fall Semester		Spring Semester		
Make a point to read professional IT	CIT 383 Scripting I	3	Minor or elective	;	
publications such as Information			CIT 485 Advanced Cybersecurity		
Week, to stay abreast of new develop-	CIT 447 Network Design/		(<i>recommended</i>) or		
ments in the field. Consider becoming	Troubleshooting	3	CIT elective 300 level or above		
a mentor to newer students.	Gen Ed: Culture and Creativity II	3	Minor or elective		
	Fall Semester Fall Semester T 271 Windows Administration IF 282 Introduction to Databases en Ed: Communication; Written II en Ed: Self and Society; Individual and ociety II en Ed: Global Viewpoints TOTAL Fall Semester T 383 Scripting I T 447 Network Design/ oubleshooting en Ed: Culture and Creativity II inor or elective TOTAL TOTAL	Minor or elective			
	ENG 347 Technical Writing	3	Minor or elective 300 level or above	;	
	TOTAL	15	TOTAL	1	
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	;	
sume in shape and polish your inter-	CIT elective 300 level or above	3	CIT elective 300 level or above		
viewing skills.	Minor or elective	3	Minor or elective		
	Minor or elective 300 level or above	3	Minor or elective 300 level or above		
	Minor or elective 300 level or above	3	Minor or elective 300 level or above		
	TOTAL	15	TOTAL	1	
	101712		GRAND TOTAL OF CREDITS	120	

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	Gen Ed: Scientific and Quantitative		CIT 247 Networking Fundamentals		
attending departmental social events	Inquiry; Mathematics and Statistics	3		3	
and student research talks. Make sure	STA 205 (or 250)				
you allow time in your programming	CIT 130 Information Technology	3	Gen Ed: Self and Society; Individual and	3	
courses for experimentation and fun;	Fundamentals		Society I		
that is the best way to learn.	Gen Ed: Communication; Written	3	Gen Ed: Communication; Oral	3	
	Communication I				
	Gen Ed: Scientific and Quantitative		Gen Ed: Self and Society; Cultural Pluralism		
	Inquiry; Natural Sciences without lab;	3		3	
	INF 120 Elementary Programming				
	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 professors about possible co-op and re-	CIT 271 Windows Administration	3	CIT 371 Unix Systems	3	
	INF 282 Introduction to Databases	3	INF 286 Intro to Web Development	3	
search opportunities. Think carefully	Gen Ed: Communication; Written	3	PHI 310 Ethics in Information Technology	3	
as you choose a minor. Try out for the	Communication II	3		<u> </u>	
cyber defense team.	CSC 260 Object-Oriented Programming	3	Gen Ed: Self and Society; Individual and Society II	3	
	CSC 260 Object-Oriented Programming	0-1	Gen Ed: Scientific and Quantitative Inquiry;	4	
	I Lab (<i>recommended</i>)	0-1	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		3	CIT 483 Scripting II or	3	
publications such as Information	CIT 383 Scripting I	3	CSC 360 Object-Oriented Programming	3	
Week, to stay abreast of new develop-	Gen Ed: Culture and Creativity II	3	CSC 301 Web Programming	3	
ments in the field. Consider becoming	ENG 347 Technical Writing	3	Minor or elective	3	
a mentor to newer students.	Minor or elective	3	Minor or elective 300 level or above	3	
	Minor or elective 300 level or above	3		3	
	TOTAL	15	TOTAL	15	
FOURTH YEAR	Fall Semester		Spring Semester		
Attend programs run by Career Ser-	CIT 472 Database Administration	3	CIT 436 Web Server Administration	3	
vices to get your resume in shape and	CIT 485 Advanced Cybersecurity		CIT elective, 300 level or above or CSC 456		
polish your interviewing skills.	(<i>recommended</i>) or	3	Advanced Web Application Development	3	
, ,	Minor or elective 300 level or above				
	Minor or elective	3	Minor or elective	1-2	
	Minor or elective	3	Minor or elective	3	
	Minor or elective 300 level or above	3	Minor or elective 300 level or above	3	
	TOTAL	15	TOTAL	13-14	
			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;	Gen Ed: Scientific and Quantitative Inquiry; Mathematics and Statistics STA 205 (or 250)	3	CIT 247 Networking Fundamentals	3	
	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- search opportunities. Think carefully as you choose a minor. Try out for the cyber defense team.	INF 282 Introduction to Databases	3	INF 286 Intro to Web Development	3	
	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 or elective	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	Minor or elective	3	CIT 430 Computer Forensics	3	
publications such as Information	CIT 383 Scripting I	3	CIT elective, 300 level or above	3	
Week, to stay abreast of new develop-	Gen Ed: Culture and Creativity II	3	Minor or elective	3	
ments in the field. Consider becoming	ENG 347 Technical Writing	3	Minor or elective 300 level or above	3	
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 or elective	3	Minor or 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	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.

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		3	
and student research talks. Make sure	STA 205 (or 250)				
you allow time in your programming	CIT 130 Information Technology	3	Gen Ed: Self and Society; Individual and	3	
courses for experimentation and fun;	Fundamentals		Society I		
that is the best way to learn.	Gen Ed: Communication; Written	3	Gen Ed: Communication; Oral	3	
	Communication I				
	Gen Ed: Scientific and Quantitative	•	CSC 260 Object-Oriented Programming I	•	
	Inquiry; Natural Sciences without lab;	3		3	
	INF 120 Elementary Programming		OCC 2001 Object Oriented Discourage and I		
	Gen Ed: Culture and Creativity I	3	CSC 260L Object-Oriented Programming I	0-1	
			Lab (recommended)	2	
	TOTAL	45	CIT 285 Cybersecurity Fundamentals	3 15-16	
	TOTAL	15	TOTAL	19-10	
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	3	INF 286 Intro to Web Development	3	
search opportunities. Think carefully	Gen Ed: Self and Society; Cultural	3	CIT 383 Scripting I	3	
as you choose a minor. Try out for the	Pluralism				
cyber defense team.	Gen Ed: Communication; Written	3	PHI 310 Ethics in Information Technology	3	
	Communication II				
	Minor	3	Gen Ed: Scientific and Quantitative Inquiry;	4	
	70741		Natural Sciences with lab TOTAL	16	
	TOTAL 15				
THIRD YEAR	Fall Semester		Spring Semester		
Make a point to read professional IT	CIT 483 Scripting II or		CIT 436 Web Server Administration		
	CSC 360 Object-Oriented Programming	3	or CIT 438 Cloud Computing	3	
publications such as Information					
publications such as Information Week, to stay abreast of new develop-	II		or CIT 472 Database Administration		
-	II Gen Ed: Self and Society; Individual and	3	or CIT 472 Database Administration Gen Ed: Global Viewpoints	3	
Week, to stay abreast of new develop-	II Gen Ed: Self and Society; Individual and Society II		Gen Ed: Global Viewpoints		
Week, to stay abreast of new develop- ments in the field. Consider becoming	II Gen Ed: Self and Society; Individual and Society II ENG 347 Technical Writing	3	Gen Ed: Global Viewpoints Minor or elective	3	
ments in the field. Consider becoming	II Gen Ed: Self and Society; Individual and Society II ENG 347 Technical Writing Minor or elective	3	Gen Ed: Global Viewpoints Minor or elective Minor or elective 300 level or above	3 3	
Week, to stay abreast of new develop- ments in the field. Consider becoming	II Gen Ed: Self and Society; Individual and Society II ENG 347 Technical Writing Minor or elective Minor or elective 300 level or above	3 3	Gen Ed: Global Viewpoints Minor or elective Minor or elective 300 level or above Minor or elective 300 level or above	3 3	
Week, to stay abreast of new develop- ments in the field. Consider becoming	II Gen Ed: Self and Society; Individual and Society II ENG 347 Technical Writing Minor or elective	3	Gen Ed: Global Viewpoints Minor or elective Minor or elective 300 level or above	3 3	
Week, to stay abreast of new develop- ments in the field. Consider becoming	II Gen Ed: Self and Society; Individual and Society II ENG 347 Technical Writing Minor or elective Minor or elective 300 level or above	3 3	Gen Ed: Global Viewpoints Minor or elective Minor or elective 300 level or above Minor or elective 300 level or above	3	
Week, to stay abreast of new develop- ments in the field. Consider becoming a mentor to newer students. FOURTH YEAR	II Gen Ed: Self and Society; Individual and Society II ENG 347 Technical Writing Minor or elective Minor or elective 300 level or above TOTAL Fall Semester CIT elective, 300 level or above	3 3 3 15	Gen Ed: Global Viewpoints Minor or elective Minor or elective 300 level or above Minor or elective 300 level or above TOTAL Spring Semester Free Elective	3 3	
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-	II Gen Ed: Self and Society; Individual and Society II ENG 347 Technical Writing Minor or elective Minor or elective 300 level or above TOTAL Fall Semester	3 3 3 15	Gen Ed: Global Viewpoints Minor or elective Minor or elective 300 level or above Minor or elective 300 level or above TOTAL Spring Semester	3 3 3 15	
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	II Gen Ed: Self and Society; Individual and Society II ENG 347 Technical Writing Minor or elective Minor or elective 300 level or above TOTAL Fall Semester CIT elective, 300 level or above	3 3 3 15	Gen Ed: Global Viewpoints 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	3 3 3 15	
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	II Gen Ed: Self and Society; Individual and Society II ENG 347 Technical Writing Minor or elective Minor or elective 300 level or above TOTAL Fall Semester CIT elective, 300 level or above Minor or Elective	3 3 3 15	Gen Ed: Global Viewpoints 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 485 Advanced Cybersecurity	3 3 3 15	
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	II Gen Ed: Self and Society; Individual and Society II ENG 347 Technical Writing Minor or elective Minor or elective 300 level or above TOTAL Fall Semester CIT elective, 300 level or above Minor or Elective Gen Ed: Culture and Creativity II	3 3 3 15 3 3	Gen Ed: Global Viewpoints 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 485 Advanced Cybersecurity CIT elective, 300 level or above	3 3 3 15	
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	II Gen Ed: Self and Society; Individual and Society II ENG 347 Technical Writing Minor or elective Minor or elective 300 level or above TOTAL Fall Semester CIT elective, 300 level or above Minor or Elective Gen Ed: Culture and Creativity II Minor or elective 300 level or above	3 3 3 15 3 3 3	Gen Ed: Global Viewpoints 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 485 Advanced Cybersecurity CIT elective, 300 level or above Minor or elective	3 3 3 15 3 3 3	
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	II Gen Ed: Self and Society; Individual and Society II ENG 347 Technical Writing Minor or elective Minor or elective 300 level or above TOTAL Fall Semester CIT elective, 300 level or above Minor or Elective Gen Ed: Culture and Creativity II Minor or elective 300 level or above Minor or elective 300 level or above	3 3 3 15 3 3 3 3 3	Gen Ed: Global Viewpoints 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 485 Advanced Cybersecurity CIT elective, 300 level or above Minor or elective Minor or elective 300 level or above	3 3 3 15 3 3 3 3 3	
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-	II Gen Ed: Self and Society; Individual and Society II ENG 347 Technical Writing Minor or elective Minor or elective 300 level or above TOTAL Fall Semester CIT elective, 300 level or above Minor or Elective Gen Ed: Culture and Creativity II Minor or elective 300 level or above	3 3 3 15 3 3 3	Gen Ed: Global Viewpoints 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 485 Advanced Cybersecurity CIT elective, 300 level or above Minor or elective	1	

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.

TABLE OF CONTENTS

Sample 4-Year Plan: Computer Information Technology B.S	1
Index	€

INDEX

4-Year Plan Computer Information Technology B.S. 1