

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

Northern Kentucky University

This is an example of one way a student can complete this program in four years. Students may be required to complete additional pre-requisite courses based on placement.

MAJOR: Computer Information Technology

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

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>	CIT 130 Information Technology Fundamentals	3	CIT 171 Introduction to Linux
Gen Ed: Communication; Written I		3	Gen Ed: Self and Society; Cultural Pluralism	3
Gen Ed: Culture and Creativity I		3	Gen Ed: Self and Society; Individual and Society	3
Gen Ed: Scientific and Quantitative Inquiry; Mathematics and Statistics STA 205 (or STA 250)		3	Gen Ed: Communication; Oral	3
Gen Ed: Scientific and Quantitative Inquiry; Natural Sciences without lab; INF 120 Elementary Programming		3	INF 282 Introduction to Databases	3
INF 100 Orientation to the College of Informatics		1	INF 284 Introduction to Computer Networks	3
TOTAL		16	TOTAL	16
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 cyber defense team.</i></p>	CIT 247 Networking Fundamentals	3	CIT 271 Windows Administration	3
	CIT 285 Cybersecurity Fundamentals	3	CIT 371 Unix Systems	3
	Gen Ed: Communication; Written II	3	Gen Ed: Scientific and Quantitative Inquiry; Natural Sciences with lab	4
	Gen Ed: Self and Society; Individual and Society II	3	Minor	3
	INF 286 Introduction to Web Development	3	PHI 310 Ethics of Information Technology	3
	TOTAL	15	TOTAL	16
THIRD YEAR	Fall Semester		Spring Semester	
<p><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></p>	CIT 383 Scripting I	3	CIT elective 300 level or above	3
	CIT 447 Network Design / Troubleshooting	3	Gen Ed: Global Viewpoints	3
	ENG 347 Technical Writing	3	Minor or elective	3
	Gen Ed: Culture and Creativity II	3	Minor or elective	3
	Minor	3	Minor or elective 300 level or above	3
	TOTAL	15	TOTAL	15
FOURTH YEAR	Fall Semester		Spring Semester	
<p><i>Attend programs run by the Career Development Center to get your resume in shape and polish your interviewing skills.</i></p>	CIT 470 Advanced Network and System Administration	3	CIT 484 Network Security	3
	CIT elective 300 level or above	3	CIT elective 300 level or above	3
	Minor or elective	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		
TOTAL	15	TOTAL	12	
			GRAND TOTAL OF CREDITS	120

Notes:

A secondary area of study (minor, second major, or focus area) is required for graduation.

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

This is an example of one way a student can complete this program in four years. Students may be required to complete additional pre-requisite courses based on placement.

MAJOR: Computer Information Technology

TRACK/OPTION: Web and Database Administration

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>	CIT 130 Information Technology Fundamentals	3	CIT 171 Introduction to Linux
Gen Ed: Communication; Written I		3	Gen Ed: Self and Society; Cultural Pluralism	3
Gen Ed: Culture and Creativity I		3	Gen Ed: Self and Society; Individual and Society	3
Gen Ed: Scientific and Quantitative Inquiry; Mathematics and Statistics STA 205 (or STA 250)		3	Gen Ed: Communication; Oral	3
Gen Ed: Scientific and Quantitative Inquiry; Natural Sciences without lab; INF 120 Elementary Programming		3	INF 282 Introduction to Databases	3
INF 100 Orientation to the College of Informatics		1	INF 284 Introduction to Computer Networks	3
TOTAL		16	TOTAL	16
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
	CIT 285 Cybersecurity Fundamentals	3	Gen Ed: Scientific and Quantitative Inquiry; Natural Sciences with lab	4
	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	INF 286 Intro to Web Development	3
	Gen Ed: Communication; Written Communication II	3	PHI 310 Ethics in Information Technology	3
	Gen Ed: Global Viewpoints	3		
TOTAL	15-16	TOTAL	16	
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>	ASE 230 Server Side Programming	3	CIT 472 Database Administration	3
	CIT 383 Scripting I	3	Gen Ed: Culture and Creativity II	3
	ENG 347 Technical Writing	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
TOTAL	15	TOTAL	15	
FOURTH YEAR	Fall Semester		Spring Semester	
<i>Attend programs run by Career Services to get your resume in shape and polish your interviewing skills.</i>	CIT 483 Scripting II or CSC 360 Object-Oriented Programming II	3	CIT 436 Web Server Administration	3
	Minor	3	CIT elective, 300 level or above or ASE 456 Cross-Platform Development	3
	Minor or elective	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		
TOTAL	15	TOTAL	12	
			GRAND TOTAL OF CREDITS	120

Notes:

This degree plan is for students who are admitted with ALEKS or ACT score placing the student in MAT 128. Students with a lower score will need to take additional mathematics if electing to take CSC 360.

A secondary area of study (minor, second major, or focus area) is required for graduation.

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

This is an example of one way a student can complete this program in four years. Students may be required to complete additional pre-requisite courses based on placement.

MAJOR: Computer Information Technology

TRACK/OPTION: Cybersecurity

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>	CIT 130 Information Technology Fundamentals	3	CIT 171 Introduction to Linux
Gen Ed: Communication; Written I		3	Gen Ed: Self and Society; Cultural Pluralism	3
Gen Ed: Culture and Creativity I		3	Gen Ed: Self and Society; Individual and Society	3
Gen Ed: Scientific and Quantitative Inquiry; Mathematics and Statistics STA 205 (or STA 250)		3	Gen Ed: Communication; Oral	3
Gen Ed: Scientific and Quantitative Inquiry; Natural Sciences without lab; INF 120 Elementary Programming		3	INF 282 Introduction to Databases	3
INF 100 Orientation to the College of Informatics		1	INF 284 Introduction to Computer Networks	3
TOTAL		16	TOTAL	16
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 247 Networking Fundamentals	3	CIT 271 Windows Administration	3
	CIT 285 Cybersecurity Fundamentals	3	CIT 371 Unix Systems	3
	Gen Ed: Communication; Written II	3	Gen Ed: Scientific and Quantitative Inquiry; Natural Sciences with lab	4
	Gen Ed: Self and Society; Individual and Society II	3	Minor	3
	INF 286 Introduction to Web Development	3	PHI 310 Ethics of Information Technology	3
	TOTAL	15	TOTAL	16
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 430 Computer Forensics	3
	ENG 347 Technical Writing	3	CIT elective, 300 level or above	3
	Gen Ed: Culture and Creativity II	3	Gen Ed: Global Viewpoints	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
	TOTAL	15	TOTAL	15
FOURTH YEAR	Fall Semester		Spring Semester	
<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 485 Advanced Cybersecurity	3
	CIT elective, 300 level or above	3	CIT elective, 300 level or above	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
	Minor or elective 300 level or above	3		
TOTAL	15	TOTAL	12	
			GRAND TOTAL OF CREDITS	120

Notes:

A secondary area of study (minor, second major, or focus area) is required for graduation.

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

This is an example of one way a student can complete this program in four years. Students may be required to complete additional pre-requisite courses based on placement.

MAJOR: Computer Information Technology

TRACK/OPTION: Non-specialist

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>	CIT 130 Information Technology Fundamentals	3	CIT 171 Introduction to Linux
Gen Ed: Communication; Written I		3	Gen Ed: Communication; Oral	3
Gen Ed: Culture and Creativity I		3	Gen Ed: Communication; Written Communication II	3
Gen Ed: Scientific and Quantitative Inquiry; Mathematics and Statistics STA 205 (or STA 250)		3	Gen Ed: Self and Society; Individual and Society I	3
Gen Ed: Scientific and Quantitative Inquiry; Natural Sciences without lab; INF 120 Elementary Programming		3	INF 282 Introduction to Databases	3
INF 100 Orientation to the College of Informatics		1	INF 284 Introduction to Computer Networks	3
TOTAL		16	TOTAL	16
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
	CIT 285 Cybersecurity Fundamentals	3	INF 286 Intro to Web Development	3
	CSC 260 Object-Oriented Programming I	3	CIT 383 Scripting I	3
	CSC 260L Object-Oriented Programming I Lab (recommended)	0-1	PHI 310 Ethics in Information Technology	3
	Gen Ed: Self and Society; Cultural Pluralism	3	Gen Ed: Scientific and Quantitative Inquiry; Natural Sciences with lab	4
	Minor	3		
	TOTAL	15-16	TOTAL	16
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 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
	ENG 347 Technical Writing	3	Gen Ed: Global Viewpoints	3
	Gen Ed: Self and Society; Individual and Society II	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
	TOTAL	15	TOTAL	15
FOURTH YEAR	Fall Semester		Spring Semester	
<i>Attend programs run by Career Services to get your resume in shape and polish your interviewing skills.</i>	CIT 470 Advanced Network and System Administration or CIT 485 Advanced Cybersecurity	3	CIT elective, 300 level or above	3
	CIT elective, 300 level or above	3	Minor or elective	3
	Gen Ed: Culture and Creativity II	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		
TOTAL	15	TOTAL	12	
			GRAND TOTAL OF CREDITS	120

Notes:

This degree plan is for students who are admitted with ALEKS or ACT score placing the student in MAT 128. Students with a lower score will need to take additional mathematics if electing to take CSC 360.

A secondary area of study (minor, second major, or focus area) is required for graduation.

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.

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