Information Technology

Department Information

 Department Web Site: https://www.ndsu.edu/cs/

· Credential Offered:

B.S.

· Program Overview:

/programs-study/undergraduate/information-technology/ (http://catalog.ndsu.edu/undergraduate/program-curriculum/information-technology/ http://programs-study/undergraduate/information-technology/)

Major Requirements

Major: Information Technology

Degree Type: B.S.

Minimum Degree Credits to Graduate: 120

University Degree Requirements

- 1. Satisfactory completion of all requirements of the curriculum in which one is enrolled.
- 2. Earn a minimum total of 120 credits in approved coursework. Some academic programs exceed this minimum.
- 3. Satisfactory completion of the general education requirements as specified by the university.
- 4. A minimum institutional GPA of 2.00 based on work taken at NDSU.
- 5. At least 30 credits must be NDSU resident credits. Resident credits include credits registered and paid for at NDSU.
- 6. At least 36 credits presented for graduation must be in courses numbered 300 or higher.
- 7. Students presenting transfer credit must meet the NDSU residence credits and the minimum upper level credit. Of the 30 credits earned in residence, a minimum of 15 semester credits must be in courses numbered 300 or above, and 15 semester credits must be in the student's curricula for their declared major.

For complete information, please refer to the Degree and Graduation Requirements (http://catalog.ndsu.edu/academic-policies/undergraduate-policies/degree-and-graduation/) section of this Bulletin.

University General Education Requirements

A list of university approved general education courses and administrative policies are available here (http://catalog.ndsu.edu/academic-policies/undergraduate-policies/general-education/#genedcoursestext).

Code	Title	C	redits
Category C: Communication			12
ENGL 110	College Composition I		
ENGL 120	College Composition II		
COMM 110	Fundamentals of Public Speaking		
Upper Division Writing [†]			
Category R: Quantitative Reasoning †			3
Category S: Science and Technology [†]			10
Category A: Humanities and Fine Arts [†]			6
Category B: Social and Behavioral Sciences [†]			6
Category W: Wellness [†]			2
Category D: Cultural Diversity *†			
Category G: Global Perspectives *†			
Total Credits			39

*

Courses for category D & G are satisfied by completing D & G designated courses in another general education category.

General education courses may be used to satisfy requirements for both general education and the major, minor, and program emphases, where applicable. Students should carefully review major requirements to determine if specific courses can also satisfy these general education categories.

Core Information Technology Requirements CSCI 155 Introduction to Cybersecurity 3 CSCI 159 Computer Science Problem Solving 3 CSCI 177 Introduction to Information Technology 3 CSCI 213 Modern Software Development 3 CSCI 222 Discrete Mathematics 3 CSCI 277 Introduction to UNIX 3 CSCI 305 Principles of Cybersecurity 3 CSCI 312 Survey of Programming Languages 3 CSCI 313 Software Development with Frameworks 3 CSCI 313 Networking 3 CSCI 313 Software Development with Frameworks 3 CSCI 314 Detabase Systems 3 CSCI 317 Metworking 3 CSCI 450 Cloud Computing Systems Concepts	Code	Title	Credits	
CSCI 159 Computer Science Problem Solving 3 CSCI 177 Introduction to Information Technology 3 CSCI 213 Modern Software Development 3 CSCI 222 Discrete Mathematics 3 CSCI 277 Introduction to UNIX 3 CSCI 305 Principles of Cybersecurity 3 CSCI 312 Survey of Programming Languages 3 or CSCI 372 Comparative Programming Languages 3 CSCI 313 Software Development with Frameworks 3 CSCI 376 Networking 3 CSCI 377 Web Scripting Languages 3 CSCI 371 Web Scripting Languages 3 CSCI 371 Web Scripting Languages 3 CSCI 377 Information Technology 3 CSCI 377 Information Technology 3 CSCI 445 Software Projects Capstone 3 CSCI 445 Software Projects Capstone 3 CSCI 474 Operating Systems Concepts 3 CSCI 489 Social Implications of Computers 3<	Core Information Technology Requirements			
CSCI 177 Introduction to Information Technology 3 CSCI 213 Modern Software Development 3 CSCI 222 Discrete Mathematics 3 CSCI 227 Introduction to UNIX 3 CSCI 305 Principles of Cybersecurity 3 CSCI 312 Survey of Programming Languages CSCI 372 Comparative Programming Languages CSCI 359 Networking 3 CSCI 359 Networking 3 CSCI 360 Database Systems 3 CSCI 371 Web Scripting Languages 3 CSCI 372 Omputer Organization and Architecture 3 CSCI 373 Information Technology 3 CSCI 374 Computer Organization and Architecture 3 CSCI 375 Fe/Cope Jed/Internship for any 300 or 400 level IT or CS elective) 3 CSCI 436 Software Projects Capstone 3 CSCI 4476 Operating Systems Concepts 3 CSCI 456 Ocud Computing 3 CSCI 448 Social Implications of Computer Science 3	CSCI 105	Introduction to Cybersecurity	3	
CSCI 213 Modern Software Development 3 CSCI 222 Discrete Mathematics 3 CSCI 227 Introduction to UNIX 3 CSCI 305 Principles of Cybersecurity 3 CSCI 312 Survey of Programming Languages 3 or CSCI 372 Comparative Programming Languages 3 CSCI 313 Software Development with Frameworks 3 CSCI 359 Networking 3 CSCI 366 Database Systems 3 CSCI 371 Web Scripting Languages 3 CSCI 372 Information Technology 3 CSCI 373 Information Technology 3 CSCI 377 Information Technology 3 CSCI 45 Software Projects Capstone 3 CSCI 452 Software Projects Capstone 3 CSCI 474 Operating Systems Concepts 3 CSCI 474 Operating Systems Concepts 3 SCI 489 Social Implications of Computers 3 STAT 330 Introductory Statistics 3	CSCI 159	Computer Science Problem Solving	3	
CSCI 222 Discrete Mathematics 3 CSCI 277 Introduction to UNIX 3 CSCI 305 Principles of Cybersecurity 3 CSCI 312 Survey of Programming Languages 3 CSCI 3172 Comparative Programming Languages 3 CSCI 3133 Software Development with Frameworks 3 CSCI 359 Networking 3 CSCI 376 Database Systems 3 CSCI 371 Web Scripting Languages 3 CSCI 374 Computer Organization and Architecture 3 CSCI 377 Information Technology 3 CSCI 3897 Fe/Coop Ed/Internship (or any 300 or 400 level IT or CS elective) 3 CSCI 445 Software Projects Capstone 3 CSCI 445 Colud Computing 3 CSCI 449 Social Implications of Computers 3 CSCI 489 Social Implications of Computers 3 STAT 330 Introductory Statistics 3 Select one of the following sequences 8 or 9 CSCI 227 Computing Fundamentals in Python	CSCI 177	Introduction to Information Technology	3	
CSCI 277 Introduction to UNIX 3 CSCI 305 Principles of Cybersecurity 3 CSCI 312 Survey of Programming Languages 3 or CSCI 372 Comparative Programming Languages 3 CSCI 313 Software Development with Frameworks 3 CSCI 359 Networking 3 CSCI 366 Database Systems 3 CSCI 371 Web Scripting Languages 3 CSCI 374 Computer Organization and Architecture 3 CSCI 374 Information Technology 3 CSCI 397 Fer/Coop Ed/Internship (or any 300 or 400 level IT or CS elective) 3 CSCI 445 Software Projects Capstone 3 CSCI 446 Operating Systems Concepts 3 CSCI 489 Social Implications of Computers 3 CSCI 489 Social Implications of Computers 3 STAT 330 Introductory Statistics 3 SCSCI 227 Computing Fundamentals in Python II CSCI 228 Computing Fundamentals in Python III CSCI 229 Computing Fundamentals	CSCI 213	Modern Software Development	3	
CSCI 305 Principles of Cybersecurity 3 CSCI 312 Survey of Programming Languages 3 CSCI 313 Software Development with Frameworks 3 CSCI 359 Networking 3 CSCI 366 Database Systems 3 CSCI 371 Web Scripting Languages 3 CSCI 374 Computer Organization and Architecture 3 CSCI 377 Information Technology 3 CSCI 397 Fe/Coop Ed/Internship (or any 300 or 400 level IT or CS elective) 3 CSCI 445 Software Projects Capstone 3 CSCI 446 Cloud Computing 3 CSCI 474 Operating Systems Concepts 3 CSCI 489 Social Implications of Computers 3 STAT 330 Introductory Statistics 3 Select one of the following sequences: 8 or 9 Sequence One: CSCI 227 CSCI 228 Computing Fundamentals in Python II CSCI 229 Computing Fundamentals in Python III CSCI 161 Computer Science I CSCI 161 Comput	CSCI 222	Discrete Mathematics	3	
CSCI 312 Survey of Programming Languages or CSCI 372 Comparative Programming Languages CSCI 313 Software Development with Frameworks 3 CSCI 359 Networking 3 CSCI 366 Database Systems 3 CSCI 371 Web Scripting Languages 3 CSCI 374 Computer Organization and Architecture 3 CSCI 377 Information Technology 3 CSCI 397 Fe/Coop Ed/Internship (or any 300 or 400 level IT or CS elective) 3 CSCI 445 Software Projects Capstone 3 CSCI 445 Software Projects Capstone 3 CSCI 446 Operating Systems Concepts 3 CSCI 474 Operating Systems Concepts 3 SCSI 489 Social Implications of Computers 3 MATH 105 Trigonometry 3 STAT 330 Introductory Statistics 8 or 9 Sequence One: CSCI 227 CSCI 228 Computing Fundamentals in Python II CSCI 229 Computing Fundamentals in Python II CSCI 160 <	CSCI 277	Introduction to UNIX	3	
or CSCI 372 Comparative Programming Languages CSCI 313 Software Development with Frameworks 3 CSCI 359 Networking 3 CSCI 366 Database Systems 3 CSCI 371 Web Scripting Languages 3 CSCI 374 Computer Organization and Architecture 3 CSCI 377 Information Technology 3 CSCI 378 Fe/Coop Ed/Internship (or any 300 or 400 level IT or CS elective) 3 CSCI 445 Software Projects Capstone 3 CSCI 445 Software Projects Capstone 3 CSCI 445 Operating Systems Concepts 3 CSCI 447 Operating Systems Concepts 3 CSCI 489 Social Implications of Computers 3 ATAT 330 Introductory Statistics 3 Select one of the following sequences: 8 or 9 Sequence One: CSCI 227 CSCI 228 Computing Fundamentals in Python II CSCI 229 Computing Fundamentals in Python III Sequence Two: CSCI 260 CSCI 160 Computer Scien	CSCI 305	Principles of Cybersecurity	3	
CSCI 313 Software Development with Frameworks 3 CSCI 359 Networking 3 CSCI 366 Database Systems 3 CSCI 371 Web Scripting Languages 3 CSCI 374 Computer Organization and Architecture 3 CSCI 377 Information Technology 3 CSCI 397 Fe/Coop Ed/Internship (or any 300 or 400 level IT or CS elective) 3 CSCI 445 Software Projects Capstone 3 CSCI 445 Conductory Computing 3 CSCI 474 Operating Systems Concepts 3 CSCI 489 Social Implications of Computers 3 CSCI 489 Social Implications of Computers 3 STAT 330 Introductory Statistics 3 Select one of the following sequences: Sequence One: CSCI 227 Computing Fundamentals in Python II CSCI 228 Computing Fundamentals in Python III Sequence Two: CSCI 160 CSCI 160 Computer Science I Technical Electives - Select 2 courses from the following: 6 CSCI 410	CSCI 312	Survey of Programming Languages	3	
CSCI 359 Networking 3 CSCI 366 Database Systems 3 CSCI 371 Web Scripting Languages 3 CSCI 374 Computer Organization and Architecture 3 CSCI 377 Information Technology 3 CSCI 397 Fe/Coop Ed/Internship (or any 300 or 400 level IT or CS elective) 3 CSCI 445 Software Projects Capstone 3 CSCI 450 Cloud Computing 3 CSCI 474 Operating Systems Concepts 3 CSCI 489 Social Implications of Computers 3 MATH 105 Trigonometry 3 Select one of the following sequences: 8 or 9 Sequence One: 3 CSCI 227 Computing Fundamentals in Python II 5 CSCI 229 Computing Fundamentals in Python III 5 CSCI 229 Computing Fundamentals in Python III 5 CSCI 160 Computer Science I 5 CSCI 161 Computer Science I 6 CSCI 410 Computer Crime and Forensics 6 CSCI	or CSCI 372	Comparative Programming Languages		
CSCI 366 Database Systems 3 CSCI 371 Web Scripting Languages 3 CSCI 374 Computer Organization and Architecture 3 CSCI 377 Information Technology 3 CSCI 397 Fe/Coop Ed/Internship (or any 300 or 400 level IT or CS elective) 3 CSCI 445 Software Projects Capstone 3 CSCI 450 Cloud Computing 3 CSCI 474 Operating Systems Concepts 3 CSCI 489 Social Implications of Computers 3 MATH 105 Trigonometry 3 STAT 330 Introductory Statistics 3 Select one of the following sequences: 8 or 9 Sequence One: 2 CSCI 227 Computing Fundamentals in Python II CSCI 229 Computing Fundamentals in Python III SCSI 229 Computing Fundamentals in Python III CSCI 160 Computer Science I CSCI 161 Computer Science I CSCI 410 Computer Crime and Forensics CSCI 422 Fundamentals of Data Engineering CSCI 473 </td <td>CSCI 313</td> <td>Software Development with Frameworks</td> <td>3</td>	CSCI 313	Software Development with Frameworks	3	
CSCI 371 Web Scripting Languages 3 CSCI 3724 Computer Organization and Architecture 3 CSCI 377 Information Technology 3 CSCI 397 Fe/Coop Ed/Internship (or any 300 or 400 level IT or CS elective) 3 CSCI 445 Software Projects Capstone 3 CSCI 450 Cloud Computing 3 CSCI 474 Operating Systems Concepts 3 CSCI 489 Social Implications of Computers 3 STAT 330 Introductory Statistics 3 Select one of the following sequences: 8 or 9 Sequence One: CSCI 227 CSCI 227 Computing Fundamentals in Python II CSCI 229 Computing Fundamentals in Python III Sequence Two: CSCI 160 CSCI 160 Computer Science I CSCI 161 Computer Science II Technical Electives - Select 2 courses from the following: 6 CSCI 410 Computer Crime and Forensics CSCI 422 Fundamentals of Data Engineering CSCI 473 Foundations of the Digital Enterprise	CSCI 359	Networking	3	
CSCI 374 Computer Organization and Architecture 3 CSCI 377 Information Technology 3 CSCI 397 Fe/Coop Ed/Internship (or any 300 or 400 level IT or CS elective) 3 CSCI 445 Software Projects Capstone 3 CSCI 450 Cloud Computing 3 CSCI 474 Operating Systems Concepts 3 CSCI 489 Social Implications of Computers 3 MATH 105 Trigonometry 3 STAT 330 Introductory Statistics 3 Select one of the following sequences: 8 or 9 Sequence One: Sequence One: CSCI 227 Computing Fundamentals in Python II CSCI 228 Computing Fundamentals in Python III Sequence Two: SCSI 160 CSCI 160 Computer Science I CSCI 161 Computer Science II Technical Electives - Select 2 courses from the following: 6 CSCI 410 Computer Crime and Forensics CSCI 422 Fundamentals of Data Engineering CSCI 473 Foundations of the Digital Enterprise CSCI 476 </td <td>CSCI 366</td> <td>Database Systems</td> <td>3</td>	CSCI 366	Database Systems	3	
CSCI 377 Information Technology 3 CSCI 397 Fe/Coop Ed/Internship (or any 300 or 400 level IT or CS elective) 3 CSCI 445 Software Projects Capstone 3 CSCI 450 Cloud Computing 3 CSCI 474 Operating Systems Concepts 3 CSCI 489 Social Implications of Computers 3 MATH 105 Trigonometry 3 STAT 330 Introductory Statistics 3 Select one of the following sequences: 8 or 9 Sequence One: CSCI 227 CSCI 228 Computing Fundamentals in Python II CSCI 229 Computing Fundamentals in Python III Sequence Two: CSCI 160 CSCI 161 Computer Science I Technical Electives - Select 2 courses from the following: 6 CSCI 410 Computer Crime and Forensics CSCI 422 Fundamentals of Data Engineering CSCI 473 Foundations of the Digital Enterprise CSCI 476 Cloud Systems Administration	CSCI 371	Web Scripting Languages	3	
CSCI 397 Fe/Coop Ed/Internship (or any 300 or 400 level IT or CS elective) 3 CSCI 445 Software Projects Capstone 3 CSCI 450 Cloud Computing 3 CSCI 474 Operating Systems Concepts 3 CSCI 489 Social Implications of Computers 3 MATH 105 Trigonometry 3 SEAT 330 Introductory Statistics 3 Select one of the following sequences: 8 or 9 Sequence One: CSCI 227 CSCI 227 Computing Fundamentals in Python II CSCI 229 Computing Fundamentals in Python III Sequence Two: CSCI 160 CSCI 161 Computer Science I Technical Electives - Select 2 courses from the following: 6 CSCI 410 Computer Crime and Forensics CSCI 422 Fundamentals of Data Engineering CSCI 473 Foundations of the Digital Enterprise CSCI 476 Cloud Systems Administration	CSCI 374	Computer Organization and Architecture	3	
CSCI 445 Software Projects Capstone 3 CSCI 450 Cloud Computing 3 CSCI 474 Operating Systems Concepts 3 CSCI 489 Social Implications of Computers 3 MATH 105 Trigonometry 3 STAT 330 Introductory Statistics 3 Select one of the following sequences: 8 or 9 Sequence One: Secropations CSCI 227 Computing Fundamentals in Python II CSCI 229 Computing Fundamentals in Python III Sequence Two: CSCI 160 CSCI 161 Computer Science I CSCI 161 Computer Science II Technical Electives - Select 2 courses from the following: 6 CSCI 410 Computer Crime and Forensics CSCI 422 Fundamentals of Data Engineering CSCI 473 Foundations of the Digital Enterprise CSCI 476 Cloud Systems Administration	CSCI 377	Information Technology	3	
CSCI 450 Cloud Computing 3 CSCI 474 Operating Systems Concepts 3 CSCI 489 Social Implications of Computers 3 MATH 105 Trigonometry 3 STAT 330 Introductory Statistics 3 Select one of the following sequences: 8 or 9 Sequence One: CSCI 227 CSCI 228 Computing Fundamentals in Python II CSCI 229 Computing Fundamentals in Python III Sequence Two: CSCI 160 CSCI 161 Computer Science I Technical Electives - Select 2 courses from the following: 6 CSCI 410 Computer Crime and Forensics CSCI 422 Fundamentals of Data Engineering CSCI 473 Foundations of the Digital Enterprise CSCI 476 Cloud Systems Administration	CSCI 397	Fe/Coop Ed/Internship (or any 300 or 400 level IT or CS elective)	3	
CSCI 474 Operating Systems Concepts 3 CSCI 489 Social Implications of Computers 3 MATH 105 Trigonometry 3 STAT 330 Introductory Statistics 3 Select one of the following sequences: 8 or 9 Sequence One: CSCI 227 Computing Fundamentals in Python I CSCI 228 Computing Fundamentals in Python II CSCI 229 Computing Fundamentals in Python III Sequence Two: CSCI 160 Computer Science I CSCI 161 Computer Science II Technical Electives - Select 2 courses from the following: 6 CSCI 410 Computer Crime and Forensics CSCI 422 Fundamentals of Data Engineering CSCI 473 Foundations of the Digital Enterprise CSCI 476 Cloud Systems Administration	CSCI 445	Software Projects Capstone	3	
CSCI 489 Social Implications of Computers 3 MATH 105 Trigonometry 3 STAT 330 Introductory Statistics 3 Select one of the following sequences: 8 or 9 Sequence One: CSCI 227 Computing Fundamentals in Python I CSCI 228 Computing Fundamentals in Python III CSCI 229 Computing Fundamentals in Python III Sequence Two: CSCI 160 Computer Science I CSCI 161 Computer Science II Technical Electives - Select 2 courses from the following: 6 CSCI 410 Computer Crime and Forensics CSCI 422 Fundamentals of Data Engineering CSCI 473 Foundations of the Digital Enterprise CSCI 476 Cloud Systems Administration	CSCI 450	Cloud Computing	3	
MATH 105 Trigonometry 3 STAT 330 Introductory Statistics 3 Select one of the following sequences: 8 or 9 Sequence One: CSCI 227 Computing Fundamentals in Python I CSCI 228 Computing Fundamentals in Python III CSCI 229 Computing Fundamentals in Python III Sequence Two: CSCI 160 Computer Science I CSCI 161 Computer Science II CSCI 161 Computer Science II Technical Electives - Select 2 courses from the following: 6 CSCI 410 Computer Crime and Forensics 6 CSCI 422 Fundamentals of Data Engineering CSCI 473 Foundations of the Digital Enterprise CSCI 476 Cloud Systems Administration	CSCI 474	Operating Systems Concepts	3	
STAT 330 Introductory Statistics 3 Select one of the following sequences: 8 or 9 Sequence One: CSCI 227 Computing Fundamentals in Python I CSCI 228 Computing Fundamentals in Python II CSCI 229 Computing Fundamentals in Python III Sequence Two: CSCI 160 Computer Science I CSCI 161 Computer Science II Technical Electives - Select 2 courses from the following: 6 CSCI 410 Computer Crime and Forensics CSCI 422 Fundamentals of Data Engineering CSCI 473 Foundations of the Digital Enterprise CSCI 476 Cloud Systems Administration	CSCI 489	Social Implications of Computers	3	
Select one of the following sequences: Sequence One: CSCI 227 Computing Fundamentals in Python I CSCI 228 Computing Fundamentals in Python II CSCI 229 Computing Fundamentals in Python III Sequence Two: CSCI 160 Computer Science I CSCI 161 Computer Science II Technical Electives - Select 2 courses from the following: CSCI 410 Computer Crime and Forensics CSCI 422 Fundamentals of Data Engineering CSCI 473 Foundations of the Digital Enterprise CSCI 476 Cloud Systems Administration	MATH 105	Trigonometry	3	
Sequence One: CSCI 227 Computing Fundamentals in Python I CSCI 228 Computing Fundamentals in Python II CSCI 229 Computing Fundamentals in Python III Sequence Two: CSCI 160 Computer Science I CSCI 161 Computer Science II Technical Electives - Select 2 courses from the following: CSCI 410 Computer Crime and Forensics CSCI 422 Fundamentals of Data Engineering CSCI 473 Foundations of the Digital Enterprise CSCI 476 Cloud Systems Administration	STAT 330	Introductory Statistics	3	
CSCI 227 Computing Fundamentals in Python I CSCI 228 Computing Fundamentals in Python II CSCI 229 Computing Fundamentals in Python III Sequence Two: CSCI 160 Computer Science I CSCI 161 Computer Science II Technical Electives - Select 2 courses from the following: 6 CSCI 410 Computer Crime and Forensics CSCI 422 Fundamentals of Data Engineering CSCI 473 Foundations of the Digital Enterprise CSCI 476 Cloud Systems Administration	Select one of the following sequences:			
CSCI 228 Computing Fundamentals in Python II CSCI 229 Computing Fundamentals in Python III Sequence Two: CSCI 160 Computer Science I CSCI 161 Computer Science II Technical Electives - Select 2 courses from the following: 6 CSCI 410 Computer Crime and Forensics CSCI 422 Fundamentals of Data Engineering CSCI 473 Foundations of the Digital Enterprise CSCI 476 Cloud Systems Administration	Sequence One:			
CSCI 229 Computing Fundamentals in Python III Sequence Two: CSCI 160 Computer Science I CSCI 161 Computer Science II Technical Electives - Select 2 courses from the following: 6 CSCI 410 Computer Crime and Forensics CSCI 422 Fundamentals of Data Engineering CSCI 473 Foundations of the Digital Enterprise CSCI 476 Cloud Systems Administration	CSCI 227	Computing Fundamentals in Python I		
Sequence Two: CSCI 160 Computer Science I CSCI 161 Computer Science II Technical Electives - Select 2 courses from the following: CSCI 410 Computer Crime and Forensics CSCI 422 Fundamentals of Data Engineering CSCI 473 Foundations of the Digital Enterprise CSCI 476 Cloud Systems Administration	CSCI 228	Computing Fundamentals in Python II		
CSCI 160 Computer Science I CSCI 161 Computer Science II Technical Electives - Select 2 courses from the following: 6 CSCI 410 Computer Crime and Forensics CSCI 422 Fundamentals of Data Engineering CSCI 473 Foundations of the Digital Enterprise CSCI 476 Cloud Systems Administration	CSCI 229	Computing Fundamentals in Python III		
CSCI 161 Computer Science II Technical Electives - Select 2 courses from the following: 6 CSCI 410 Computer Crime and Forensics CSCI 422 Fundamentals of Data Engineering CSCI 473 Foundations of the Digital Enterprise CSCI 476 Cloud Systems Administration	Sequence Two:			
Technical Electives - Select 2 courses from the following: CSCI 410 Computer Crime and Forensics CSCI 422 Fundamentals of Data Engineering CSCI 473 Foundations of the Digital Enterprise CSCI 476 Cloud Systems Administration	CSCI 160	Computer Science I		
CSCI 410 Computer Crime and Forensics CSCI 422 Fundamentals of Data Engineering CSCI 473 Foundations of the Digital Enterprise CSCI 476 Cloud Systems Administration	CSCI 161	Computer Science II		
CSCI 422 Fundamentals of Data Engineering CSCI 473 Foundations of the Digital Enterprise CSCI 476 Cloud Systems Administration	Technical Electives - Select 2 courses from the following:			
CSCI 473 Foundations of the Digital Enterprise CSCI 476 Cloud Systems Administration	CSCI 410	Computer Crime and Forensics		
CSCI 476 Cloud Systems Administration	CSCI 422	Fundamentals of Data Engineering		
·	CSCI 473	Foundations of the Digital Enterprise		
CSCI 488 Human-Computer Interaction	CSCI 476	Cloud Systems Administration		
	CSCI 488	Human-Computer Interaction		

Total Credits 77-78