INFORMATION AND COMMUNICATION **TECHNOLOGY (NETWORK TECHNOLOGIES) -BACHELOR OF INFORMATION** AND COMMUNICATION **TECHNOLOGY**

(120 credits)

The Bachelor of Information and Communication Technology (ICT) (https://et.nmsu.edu/academics%20/information-communicationtechnology.html) degree focuses on designing, implementing, and managing various information systems. The curriculum includes the fundamentals of operating systems, system integration, computer networking, software development, security, cloud technologies, and project management practices. Advanced Information Technology topics are also included and differently emphasized according to the selected degree concentration:

- No Concentration (https://catalogs.nmsu.edu/nmsu/engineering/ engineering-technology-surveying/information-and-communicationtechnology-bachelor-information-communication-technology/) provides the ability to choose from various advanced courses on Cyber Defense, Network Technologies, and Software Development topics.
- · Cyber Defense Concentration (https://catalogs.nmsu.edu/nmsu/ engineering/engineering-technology-surveying/information-andcommunication-technology-cyber-defence-bict/) - focused on cyber security and defense, including ethical hacking and digital forensics;
- · Network Technologies Concentration (p. 1) (this option) focused on computer network design, configuration, and security;
- · Software Development Concentration (https://catalogs.nmsu.edu/ nmsu/engineering/engineering-technology-surveying/informationand-communication-technology-software-development-bict/) focused on the design, application, deployment, and maintenance of software:

The ICT program is a distance education program and does not require on-campus visits. Students who are successful in distance education programs typically are self-motivated, do not rely heavily on face-to-face instruction, work independently, and can remain on schedule. Students must have familiarity with and access to:

- a high-speed Internet connection,
- · a sound card, 12G of RAM minimum,
- · a microphone/Webcam,
- · Microsoft Operating System 8.1 or newer and Office ®.

The ICT program is accredited under NMSU's umbrella accreditation by the Higher Learning Commission (https://accreditation.nmsu.edu/) of the North Central Association of Colleges and Schools. Students must complete all university degree requirements, including General Education requirements, Viewing a Wider World requirements, and elective credits to total at least 120 credits with 48 credits in courses numbered 300 or

above. Requirements may be met with transfer credits from any previous program or institution.

Pathway: 4-year Bachelor's Degree

This pathway is designed with the traditional student in mind. Students have the flexibility to pursue the degree as a main campus student, or they may choose to complete the degree online.

General Education 1 10 Area I: Communications - Level 1 English Composition - Level 2 Oral Communications 3 - 4 MATH 1220G College Algebra (Equivalent or Higher) 1 Area II: Mathematics 3 - 4 MATH 1220G College Algebra (Equivalent or Higher) 1 Area III: Laboratory Sciences and Social/Behavioral Sciences 1 10-11 Area III: Laboratory Sciences Course (4 credits) 4 Area VI: Oscial/Behavioral Sciences of Area IV: Social/Behavioral Sciences Course (3 - credits) 3 Area VI: Creative and Fine Arts 1 3 General Education Elective 1 34 Viewing A Wider World 2 6 Departmental/College Requirements 7 Forgram-Specific Requirements 7 ICT 145 Network Essentials: N+ Certification Training 13 ICT 145 Network Essentials: N+ Certification Training 13 ICT 120 Discrete Math and Its Relationship to 1 ICT 220 Discrete Math and Its Relationship to 1 ICT 350V Introduction to Web Development ICT 350U Introduction to Veb Development ICT 350 Linux System Administration 3 ICT 360 Operating	Prefix	Title	Credits
English Composition - Level 1 English Composition - Level 2 Oral Communications Area II: Mathematics 3-4 MATH 1220G College Algebra (Equivalent or Higher) ¹ Area III: Laboratory Sciences and Social/Behavioral Sciences ¹ 10-11 Area III: Laboratory Sciences Course (4 credits) Area III: Laboratory Sciences Course (3 credits) Either an Area III: Laboratory Sciences of Area IV. Social/Behavioral Sciences Course (3-4 credits) Area V: Munanities ¹ 3 Area V: Creative and Fine Arts ¹ 3 General Education Elective ¹ 3-4 Viewing A Wider World ² 6 Departmental/College Requirements Program-Specific Requirements ICT 141 IT Essentials I: A+ Certification Training 3 ICT 152 Java Programming 3 ICT 152 Java Programming 3 ICT 152 Java Programming 3 ICT 161 IT Essentials I: A+ Certification Training 3 ICT 200 Discrete Math and Its Relationship to 13 Information Security+ Certification Preparation 3 ICT 250 Introduction to Internet Protocols 33 ICT 350V Introduction to Internet Protocols 33 ICT 355 Linux System Administration 3 ICT 350 Untroduction to Internet Protocols 33 ICT 350 Senior Project 33 ICT 350 Senior Project 33 ICT 350 Entroduction to Internet Protocols 33 ICT 350 Entroduction to Internet Protocols 33 ICT 350 Computer Networking 1 ICT 350 Entroduction to Internet Protocols 33 ICT 350 Linux System Administration 3 ICT 350 Entroduction to Internet Protocols 33 ICT 350 Linux System Administration 33 ICT 350 Entroduction to Internet Protocols 33 ICT 350 Entroduction to Internet Protocols 33 ICT 350 Enterprise Administration 33 ICT 350 Enterprise Administration 33 ICT 364 Windows Enterprise Administration 33 ICT 350 Enterprise Metwork Administration 33 ICT 450 Enterprise Metwork Administration 3 ICT 450 Enterprise Metwork Administration 3 ICT 451 Enterprise Network Administration 3 ICT 453 Enterprise Network Administration 3 ICT	General Education ¹		
English Composition - Level 2 Oral Communications Area II: Mathematics 3 - 4 MATH 1220G College Algebra (Equivalent or Higher) ¹ Area III: Laboratory Sciences and Social/Behavioral Sciences ¹ 10-11 Area III: Laboratory Sciences Course (4 credits) 10-11 Area III: Laboratory Sciences of Area IV. Social/Behavioral Sciences Course (3 - 4 credits) Area VI: Wumanities ¹ 3 Area VI: Creative and Fine Arts ¹ 3 General Education Elective ¹ 34 Viewing A Wider Wold ² 66 Departmental/College Requirements 7 Program-Specific Requirements 7 ICT 141 IT Essentials I: A+ Certification Training 3 ICT 152 Java Programming 3 ICT 267 Information Security+ Certification Preparation 3 ICT 267 Information Security+ Certification Preparation 3 ICT 280 Introduction to Web Development 3 ICT 350 Inux System Admin	Area I: Communication	s ¹	10
Oral CommunicationsArea II: Mathematics3 - 4MATH 12206College Algebra (Equivalent or Higher) 1Area III/IV: Laboratory Sciences and Social/Behavioral Sciences 110-11Area III: Laboratory Sciences Course (4 credits)1Area III: Laboratory Sciences Course (3 credits)1Either an Area III: Laboratory Sciences of Area IV: Social/Behavioral3Sciences Course (3-4 credits)3Area V: Humanities 13Area V: Creative and Fine Arts 13General Education Elective 13Viewing A Wider World 26Departmental/College RequirementsProgram-Specific RequirementsICT 141IT Essentials I: A+ Certification Training Focused on the Hardware ExamICT 152Java ProgrammingICT 152Java ProgrammingICT 200Discrete Math and Its Relationship to Information TechnologyICT 257Information Security+ Certification PreparationICT 350Linux System AdministrationICT 355Linux System AdministrationICT 360Operating Systems for ICT36Gottal HackingICT 453Senior ProjectICT 454Windows Enterprise AdministrationICT 455Linux System AdministrationICT 364Windows Enterprise AdministrationICT 457Introduction to Information Security TechnologyICT 453Senior ProjectICT 330Introduction to Information Security TechnologyICT 463Enterprise Network Administration 3 <t< td=""><td>English Composition</td><td>n - Level 1</td><td></td></t<>	English Composition	n - Level 1	
Area II: Mathematics3 - 4MATH 1220GCollege Algebra (Equivalent or Higher) 1Area III/V: Laboratory Sciences and Social/Behavioral Sciences 110-11Area III: Laboratory Science Course (4 credits)Area IV: Social/Behavioral Sciences Course (3 credits)Either an Area III: Laboratory Sciences of Area IV: Social/BehavioralSciences Course (3 - Credits)Area V: Creative and Fine Arts 13Area V: Creative and Fine Arts 13General Education Elective 13-4Viewing A Wider World 26Departmental/College RequirementsICT 141IT Essentials I: A+ Certification Training focused on the Hardware ExamICT 145Network Essentials: N+ Certification Training focused on the Software examICT 220Discrete Math and Its Relationship to Information TechnologyICT 220Discrete Math and Its Relationship to Information Security+ Certification Preparation and Privacy 2ICT 355Linux System AdministrationICT 364Windows Enterprise Administration Training 1ICT 355Senior ProjectICT 457Introduction to Information Security and Privacy 2ICT 354Windows Enterprise AdministrationICT 455Senior ProjectICT 457Introduction to Information Security Technology IIICT 339Introduction to Digital Forensics and Incident Response 3ICT 463Etherprise Network Administration 3ICT 463Etherprise Network Administration 3ICT 463Enterprise Network Administration 3ICT 463Etherprise N	English Composition	n - Level 2	
MATH 12206College Algebra (Equivalent or Higher) 1Area III/.V: Laboratory Sciences and Social/Behavioral Sciences 110-11Area III: Laboratory Sciences Course (4 credits)1Area III: Laboratory Sciences Course (3 credits)1Either an Area III: Laboratory Sciences of Area IV: Social/Behavioral Sciences Course (3-4 credits)3Area V: Humanities 13Area V: Creative and Fine Arts 13General Education Elective 134Viewing A Wider World 26Departmental/College Requirements7Program-Specific Requirements3ICT 141IT Essentials I: A+ Certification Training Focused on the Hardware Exam3ICT 152Java Programming3ICT 152Java Programming3ICT 161IT Essentials II: A+ Certification Training focused on the Software exam3ICT 220Discrete Math and Its Relationship to Information Security+ Certification Preparation3ICT 230Introduction to Web Development3ICT 355Linux System Administration3ICT 362Software Technology II3ICT 364Windows Enterpise Administration3ICT 455Senior Project3ICT 457Introduction to Information Security and Privacy 23ICT 364Windows Enterpise Administration3ICT 355Enture Networking I3ICT 457Introduction to Information Security Technology3ICT 450Ethical Hacking3ICT 364 <td>Oral Communication</td> <td>กร</td> <td></td>	Oral Communication	กร	
Area III/V: Laboratory Sciences and Social/Behavioral Sciences ¹ 10-11 Area III: Laboratory Science Course (4 credits) 10-11 Area IV: Social/Behavioral Sciences Course (3 credits) 10-11 Either an Area III: Laboratory Sciences of Area IV: Social/Behavioral Sciences Course (3-4 credits) 3 Area V: Creative and Fine Arts ¹ 3 General Education Elective ¹ 34 Viewing A Wider World ² 6 Departmental/College Requirements 10-11 ICT 141 IT Essentials I: A+ Certification Training Focused on the Hardware Exam 3 ICT 152 Java Programming 3 ICT 152 Java Programming 3 ICT 152 Java Programming 3 ICT 220 Discrete Math and Its Relationship to Information Security+ Certification Preparation 3 ICT 280 Introduction to Neb Development 3 ICT 355 Linux System Administration 3 ICT 362 Software Technology II 3 ICT 364 Windows Enterprise Administration 3 ICT 355 Linux System Administration 3 ICT 364 Windows Enterprise Administration 3	Area II: Mathematics		3 - 4
Area III: Laboratory Science Course (4 credits)Area IV: Social/Behavioral Sciences Course (3 credits)Either an Area III: Laboratory Sciences of Area IV: Social/Behavioral Sciences Course (3-4 credits)Area V: Humanities 1Area V: Creative and Fine Arts 13 General Education Elective 13-4Viewing A Wider Word 26 Department/College RequirementsICT 141IT Essentials I: A+ Certification Training Focused on the Hardware ExamICT 145Network Essentials: N+ Certification Training focused on the Software examICT 152Java ProgrammingICT 161IT Essentials II: A+ Certification Training focused on the Software examICT 220Discrete Math and Its Relationship to Information TechnologyICT 280Introduction to Neb DevelopmentICT 320Introduction to Personal Computer Security and Privacy 2ICT 355Linux System AdministrationICT 364Windows Enterprise AdministrationICT 455Senior Project3ICT 450Ethical HackingICT 339ICT 463ICT 463ICT 463ICT 467ICT 463ICT 467ICT 467ICT 467ICT 39ICT 39ICT 39ICT 463ICT 463ICT 464ICT 477Computer Networking II 3ICT 463ICT 464ICT 467ICT 463		-	
Area IV. Social/Behavioral Sciences Course (3 credits)Either an Area III: Laboratory Sciences of Area IV: Social/Behavioral Sciences Course (3-4 credits)Area V: Humanities 13Area V: Creative and Fine Arts 13General Education Elective 13-4Viewing A Wider World 26Departmental/College RequirementsProgram-Specific RequirementsICT 141IT Essentials I: A+ Certification Training Focused on the Hardware ExamICT 145Network Essentials: N+ Certification Training focused on the Software examICT 152Java ProgrammingICT 161IT Essentials II: A+ Certification Training focused on the Software examICT 200Discrete Math and Its Relationship to Information TechnologyICT 280Introduction to Web DevelopmentICT 320Introduction to Neb DevelopmentICT 355Linux System AdministrationICT 364Windows Enterprise AdministrationICT 377Computer Networking IICT 339Introduction to Information Security and Privacy2ICT 463Enterprise Network AdministrationICT 339Introduction to Information Security TechnologyICT 463Enterprise Network Administration3ICT 463Enterprise Network Administration3ICT 463Enterprise Network Administration3ICT 467Communication Network Security3ICT 463Enterprise Network Administration3ICT 4647Communication Network Security3ICT 467Communication Network Security3ICT 467Communi	Area III/IV: Laboratory S	Sciences and Social/Behavioral Sciences ¹	10-11
Either an Area III: Laboratory Sciences of Area IV: Social/Behavioral Sciences Course (3-4 credits)Area V: Humanities 13Area V: Creative and Fine Arts 13General Education Elective 13-4Viewing A Wider World 26Departmental/College Requirements7Program-Specific Requirements7ICT 141IT Essentials 1: A+ Certification Training Focused on the Hardware ExamICT 145Network Essentials: N+ Certification Training focused on the Software examICT 161IT Essentials II: A+ Certification Training focused on the Software examICT 220Discrete Math and Its Relationship to Information TechnologyICT 267Information Security+ Certification PreparationICT 300Introduction to Web DevelopmentICT 355Linux System AdministrationICT 364Windows Enterprise AdministrationICT 377Computer Networking IICT 345Senior ProjectICT 457Introduction to Information Security and Privacy 2ICT 339Introduction to Information Security and Privacy 1ICT 339Introduction to Information Security and Privacy 2ICT 345Senior ProjectICT 345Senior ProjectICT 463Enterprise Network Administration 3ICT 463Enterprise Network Administration 3ICT 464Introduction to Ingital Forensics and Incident Response 3ICT 467Communication Network Security 3ICT 463Enterprise Network Administration 3ICT 4647Communication Network S	Area III: Laboratory	v Science Course (4 credits)	
Sciences Course (3-4 credits) 3 Area V: Humanities 1 3 Area VI: Creative and Fine Arts 1 3 General Education Elective 1 3-4 Viewing A Wider World 2 6 Departmental/College Requirements 6 Program-Specific Requirements 7 ICT 141 IT Essentials I: A+ Certification Training Focused on the Hardware Exam 7 ICT 145 Network Essentials: N+ Certification Training focused on the Software exam 7 ICT 200 Discrete Math and Its Relationship to Information Technology 7 ICT 200 Introduction to Web Development 3 ICT 320 Introduction to Personal Computer Security and Privacy 2 3 ICT 355 Linux System Administration 3 ICT 364 Windows Enterprise Administration 3 ICT 377 Computer Networking I 3 ICT 455 Senior Project 3 ICT 339 Introduction to Information Security Technology 3 ICT 363 Enterprise Network Administration 3 3 ICT 364 Windows Enterprise Administration 3 ICT 455 Senior Project <td< td=""><td>Area IV: Social/Beh</td><td>navioral Sciences Course (3 credits)</td><td></td></td<>	Area IV: Social/Beh	navioral Sciences Course (3 credits)	
Area VI: Creative and Fine Arts 13General Education Elective 13-4Viewing A Wider World 26Departmental/College RequirementsProgram-Specific RequirementsICT 141IT Essentials I: A+ Certification Training Focused on the Hardware ExamICT 145Network Essentials: N+ Certification Training focused on the Software examICT 152Java ProgrammingICT 161IT Essentials II: A+ Certification Training focused on the Software examICT 220Discrete Math and Its Relationship to Information TechnologyICT 280Introduction to Web DevelopmentICT 320Introduction to Personal Computer Security and Privacy 2ICT 355Linux System AdministrationICT 364Windows Enterprise AdministrationICT 377Computer Networking IICT 453Senior ProjectICT 345Senior ProjectICT 359Lintroduction to Information Security and Privacy 2ICT 350Ethical HackingICT 355Linux System S for ICTICT 364Windows Enterprise AdministrationICT 365Ethical HackingICT 457Introduction to Information Security TechnologyICT 453Senior ProjectICT 339Introduction to Digital Forensics and Incident Response 3ICT 463Enterprise Network Administration 3ICT 465Enterprise Network Administration 3ICT 467Communication Network Security 3ICT 467Communication Network Security 3ICT 467Communication Network			
General Education Elective 13-4Viewing A Wider World 26Departmental/College RequirementsProgram-Specific RequirementsICT 141IT Essentials I: A+ Certification Training Focused on the Hardware ExamICT 145Network Essentials: N+ Certification TrainingICT 145Network Essentials: N+ Certification TrainingICT 145Network Essentials: N+ Certification TrainingICT 152Java ProgrammingICT 161IT Essentials II: A+ Certification Training focused on the Software examICT 220Discrete Math and Its Relationship to Information TechnologyICT 267Information Security+ Certification PreparationICT 320Introduction to Web Development3131ICT 355Linux System Administration31GadaICT 360Operating Systems for ICT33ICT 364Windows Enterprise Administration33ICT 455Senior Project31ICT 457Introduction to Information Security Technology31ICT 453Entical Hacking34Introduction to Digital Forensics and Incident Response 335Introduction to Digital Forensics and Incident Response 336ICT 46337Communication Network Security 338ICT 46739Introduction Network Security 330ICT 46731ICT 46732ICT 46733ICT 46734Information Security 335 <td< td=""><td>Area V: Humanities ¹</td><td></td><td>3</td></td<>	Area V: Humanities ¹		3
Viewing A Wider World6Departmental/College RequirementsICT 141IT Essentials 1: A+ Certification Training Focused on the Hardware Exam3ICT 145Network Essentials: N+ Certification Training3ICT 145Network Essentials: N+ Certification Training3ICT 152Java Programming3ICT 161IT Essentials II: A+ Certification Training focused on the Software exam3ICT 220Discrete Math and Its Relationship to Information Technology3ICT 267Information Security+ Certification Preparation3ICT 320Introduction to Web Development3ICT 350Linux System Administration3ICT 360Operating Systems for ICT3ICT 364Windows Enterprise Administration3ICT 455Senior Project3ICT 457Introduction to Information Security and Privacy3ICT 339Introduction to Information Security Technology3ICT 463Enterprise Network Administration3ICT 457Introduction to Information Security Technology3ICT 457Introduction to Information Security Technology3ICT 453Senior Project3ICT 454Electrives (Take all 4 courses)12ICT 399Introduction to Digital Forensics and Incident Response 33ICT 463Enterprise Network Administration3ICT 4647Communication Network Security 312ICT 467Communication Network Security 3 <td>Area VI: Creative and Fi</td> <td>ine Arts ¹</td> <td>3</td>	Area VI: Creative and Fi	ine Arts ¹	3
Departmental/College RequirementsProgram-Specific RequirementsICT 141IT Essentials I: A+ Certification Training Focused on the Hardware Exam3ICT 145Network Essentials: N+ Certification Training3ICT 152Java Programming3ICT 161IT Essentials II: A+ Certification Training focused on the Software exam3ICT 220Discrete Math and Its Relationship to Information Technology3ICT 267Information Security+ Certification Preparation3ICT 320Introduction to Web Development3ICT 320Introduction to Internet Protocols3ICT 355Linux System Administration3ICT 360Operating Systems for ICT3ICT 364Windows Enterprise Administration3ICT 455Senior Project3ICT 457Introduction to Information Security and Privacy3ICT 339Introduction to Information Security Technology12ICT 363Enterprise Administration3ICT 463Enterprise Network Administration3ICT 457Introduction to Information Security Technology12ICT 453Senior Project3ICT 454Hacking3ICT 455Enterprise Network Administration3ICT 456Enterprise Network Administration3ICT 457Introduction to Digital Forensics and Incident Response ³ 3ICT 463Enterprise Network Administration3ICT 463	General Education Elec	tive ¹	3-4
Program-Specific RequirementsICT 141IT Essentials I: A+ Certification Training Focused on the Hardware Exam3ICT 145Network Essentials: N+ Certification Training3ICT 152Java Programming3ICT 161IT Essentials II: A+ Certification Training focused on the Software exam3ICT 220Discrete Math and Its Relationship to Information Technology3ICT 267Information Security+ Certification Preparation3ICT 320Introduction to Web Development3ICT 320Introduction to Presonal Computer Security and Privacy 23ICT 355Linux System Administration3ICT 364Windows Enterprise Administration3ICT 450Ethical Hacking3ICT 457Introduction to Information Security and Privacy 23ICT 364Windows Enterprise Administration3ICT 377Computer Networking I3ICT 453Senior Project3ICT 457Introduction to Information Security Technology3ICT 463Enterprise Network Administration 312ICT 359Introduction to Digital Forensics and Incident Response 312ICT 463Enterprise Network Administration 312ICT 4647Communication Network Security 312ICT 467Communication Network Security 312ICT 467Communication Network Security 312ICT 467Communication Network Security 312ICT 467Communication	Viewing A Wider World	d ²	6
ICT 141IT Essentials I: A+ Certification Training Focused on the Hardware Exam3ICT 145Network Essentials: N+ Certification Training3ICT 152Java Programming3ICT 161IT Essentials II: A+ Certification Training focused on the Software exam3ICT 220Discrete Math and Its Relationship to Information Technology3ICT 267Information Security+ Certification Preparation3ICT 320Introduction to Web Development3ICT 320Introduction to Internet Protocols3ICT 355Linux System Administration3ICT 360Operating Systems for ICT3ICT 364Windows Enterprise Administration3ICT 450Ethical Hacking3ICT 457Introduction to Information Security and Privacy3ICT 364Windows Enterprise Administration3ICT 457Introduction to Information Security and Privacy3ICT 364Windows Enterprise Administration3ICT 457Introduction to Information Security Technology3ICT 457Introduction to Information Security Technology3ICT 453Senior Project3ICT 463Enterprise Network Administration3ICT 463Enterprise Network Administration3ICT 467Communication Network Security 33ICT 467Communication Network Security 33ICT 467Communication Network Security3ICT 467Computer Network	Departmental/College	Requirements	
Focused on the Hardware ExamICT 145Network Essentials: N+ Certification Training3ICT 152Java Programming3ICT 151IT Essentials II: A+ Certification Training focused on the Software exam3ICT 220Discrete Math and Its Relationship to Information Technology3ICT 227Information Security+ Certification Preparation3ICT 280Introduction to Web Development3ICT 320Introduction to Internet Protocols3ICT 355Linux System Administration3ICT 360Operating Systems for ICT3ICT 364Windows Enterprise Administration3ICT 450Ethical Hacking3ICT 450Ethical Hacking3ICT 457Introduction to Information Security3ICT 364Windows Enterprise Administration3ICT 457Introduction to Information Security3ICT 457Introduction to Information Security3ICT 457Introduction to Information Security3ICT 453Enterprise Network Administration3ICT 463Enterprise Network Administration3ICT 463Enterprise Network Administration3ICT 467Communication Network Security3ICT 467Communication Network Security3ICT 467Communication Network Security3ICT 477Computer Networking II3	Program-Specific Requ	irements	
ICT 152Java Programming3ICT 161IT Essentials II: A+ Certification Training focused on the Software exam3ICT 220Discrete Math and Its Relationship to Information Technology3ICT 267Information Security+ Certification Preparation3ICT 280Introduction to Web Development3ICT 320Introduction to Internet Protocols3ICT 355Linux System Administration3ICT 360Operating Systems for ICT3ICT 362Software Technology II3ICT 377Computer Networking I3ICT 455Ethical Hacking3ICT 457Introduction to Information Security and Privacy12ICT 364Windows Enterprise Administration3ICT 377Computer Networking I3ICT 450Ethical Hacking3ICT 455Enticre (Take all 4 courses)12ICT 339Introduction to Digital Forensics and Incident Response 312ICT 463Enterprise Network Administration 312ICT 467Communication Network Security 31ICT 467Computer Networking II 31	ICT 141	5	3
ICT 161IT Essentials II: A+ Certification Training focused on the Software exam3ICT 220Discrete Math and Its Relationship to Information Technology3ICT 267Information Security+ Certification Preparation3ICT 280Introduction to Web Development3ICT 320Introduction to Internet Protocols3ICT 355Linux System Administration3ICT 360Operating Systems for ICT3ICT 362Software Technology II3ICT 377Computer Networking I3ICT 450Ethical Hacking3ICT 457Introduction to Information Security and Privacy 212ICT 390Nindows Enterprise Administration3ICT 377Computer Networking I3ICT 450Ethical Hacking3ICT 453Senior Project3ICT 339Introduction to Digital Forensics and Incident Response 312ICT 463Enterprise Network Administration 312ICT 467Communication Network Security 312ICT 467Communication Network Security 312	ICT 145	Network Essentials: N+ Certification Training	3
focused on the Software examICT 220Discrete Math and Its Relationship to Information Technology3ICT 267Information Security+ Certification Preparation3ICT 280Introduction to Web Development3ICT 320Introduction to Internet Protocols3ICT 355Linux System Administration3ICT 360Operating Systems for ICT3ICT 362Software Technology II3ICT 377Computer Networking I3ICT 450Ethical Hacking3ICT 457Introduction to Information Security and Privacy 23ICT 364Windows Enterprise Administration3ICT 377Computer Networking I3ICT 450Ethical Hacking3ICT 457Introduction to Information Security Technology3ICT 339Introduction to Digital Forensics and Incident Response 312ICT 463Enterprise Network Administration 312ICT 467Communication Network Security 312ICT 467Communication Network Security 312ICT 467Communication Network Security 312	ICT 152	Java Programming	3
Information TechnologyICT 267Information Security+ Certification Preparation3ICT 280Introduction to Web Development3ICT 320Introduction to Internet Protocols3ICT 350VIntroduction to Personal Computer Security and Privacy 23ICT 355Linux System Administration3ICT 360Operating Systems for ICT3ICT 362Software Technology II3ICT 364Windows Enterprise Administration3ICT 435Senior Project3ICT 450Ethical Hacking3ICT 457Introduction to Information Security Technology32ICT 339Introduction to Digital Forensics and Incident Response 312ICT 463Enterprise Network Administration 312ICT 467Communication Network Security 312ICT 467Computer Networking II 313	ICT 161	5	3
ICT 280Introduction to Web Development3ICT 320Introduction to Internet Protocols3ICT 320Introduction to Personal Computer Security and Privacy 23ICT 355Linux System Administration3ICT 360Operating Systems for ICT3ICT 362Software Technology II3ICT 364Windows Enterprise Administration3ICT 377Computer Networking I3ICT 435Senior Project3ICT 450Ethical Hacking3ICT 457Introduction to Information Security Technology32ICT 339Introduction to Digital Forensics and Incident Response 312ICT 463Enterprise Network Administration 312ICT 467Communication Network Security 31ICT 477Computer Networking II 33	ICT 220		3
ICT 320Introduction to Internet Protocols3ICT 350VIntroduction to Personal Computer Security and Privacy23ICT 355Linux System Administration3ICT 360Operating Systems for ICT3ICT 362Software Technology II3ICT 364Windows Enterprise Administration3ICT 377Computer Networking I3ICT 435Senior Project3ICT 450Ethical Hacking3ICT 457Introduction to Information Security Technology32ICT 339Introduction to Digital Forensics and Incident Response 312ICT 463Enterprise Network Administration 312ICT 467Communication Network Security 312ICT 477Computer Networking II 333	ICT 267	Information Security+ Certification Preparation	3
ICT 350VIntroduction to Personal Computer Security and Privacy 23ICT 355Linux System Administration3ICT 360Operating Systems for ICT3ICT 362Software Technology II3ICT 364Windows Enterprise Administration3ICT 377Computer Networking I3ICT 435Senior Project3ICT 450Ethical Hacking3ICT 457Introduction to Information Security Technology3ICT 339Introduction to Digital Forensics and Incident Response 312ICT 463Enterprise Network Administration 312ICT 467Communication Network Security 31ICT 477Computer Networking II 33	ICT 280	Introduction to Web Development	3
and Privacy 2ICT 355Linux System Administration3ICT 360Operating Systems for ICT3ICT 362Software Technology II3ICT 364Windows Enterprise Administration3ICT 377Computer Networking I3ICT 435Senior Project3ICT 450Ethical Hacking3ICT 457Introduction to Information Security Technology32ICT 339Introduction to Digital Forensics and Incident Response 312ICT 463Enterprise Network Administration 312ICT 467Communication Network Security 312ICT 477Computer Networking II 313	ICT 320	Introduction to Internet Protocols	3
ICT 355Linux System Administration3ICT 360Operating Systems for ICT3ICT 362Software Technology II3ICT 364Windows Enterprise Administration3ICT 377Computer Networking I3ICT 435Senior Project3ICT 450Ethical Hacking3ICT 457Introduction to Information Security Technology32ICT 339Introduction to Digital Forensics and Incident Response 312ICT 463Enterprise Network Administration 312ICT 467Communication Network Security 312ICT 467Computer Networking II 313	ICT 350V		3
ICT 360Operating Systems for ICT3ICT 362Software Technology II3ICT 364Windows Enterprise Administration3ICT 377Computer Networking I3ICT 435Senior Project3ICT 450Ethical Hacking3ICT 457Introduction to Information Security Technology3ICT 339Introduction to Digital Forensics and Incident Response 312ICT 463Enterprise Network Administration 312ICT 467Communication Network Security 312ICT 467Communication Network Security 312ICT 477Computer Networking II 313	ICT 355	Linux System Administration	3
ICT 362Software Technology II3ICT 364Windows Enterprise Administration3ICT 377Computer Networking I3ICT 435Senior Project3ICT 450Ethical Hacking3ICT 457Introduction to Information Security Technology3ICT 339Introduction to Digital Forensics and Incident Response 312ICT 463Enterprise Network Administration 312ICT 467Communication Network Security 312ICT 477Computer Networking II 313	ICT 360	•	
ICT 364Windows Enterprise Administration3ICT 377Computer Networking I3ICT 435Senior Project3ICT 450Ethical Hacking3ICT 457Introduction to Information Security Technology3Concentration/Technical Electives (Take all 4 courses)12ICT 339Introduction to Digital Forensics and Incident Response 312ICT 463Enterprise Network Administration 312ICT 467Communication Network Security 312ICT 477Computer Networking II 313	ICT 362		
ICT 377Computer Networking I3ICT 435Senior Project3ICT 450Ethical Hacking3ICT 457Introduction to Information Security Technology3Concentration/Technical Electives (Take all 4 courses)12ICT 339Introduction to Digital Forensics and Incident Response 312ICT 463Enterprise Network Administration 3ICT 467Communication Network Security 3ICT 477Computer Networking II 3	ICT 364	5,	
ICT 435 Senior Project 3 ICT 450 Ethical Hacking 3 ICT 457 Introduction to Information Security Technology 3 Concentration/Technical Electives (Take all 4 courses) 12 ICT 339 Introduction to Digital Forensics and Incident Response ³ 12 ICT 463 Enterprise Network Administration ³ 12 ICT 467 Communication Network Security ³ 12 ICT 477 Computer Networking II ³ 13			
ICT 450 Ethical Hacking 3 ICT 457 Introduction to Information Security Technology 3 Concentration/Technical Electives (Take all 4 courses) 12 ICT 339 Introduction to Digital Forensics and Incident Response ³ 12 ICT 463 Enterprise Network Administration ³ 12 ICT 467 Communication Network Security ³ 12 ICT 477 Computer Networking II ³ 13		1 5	
ICT 457Introduction to Information Security Technology3Concentration/Technical Electives (Take all 4 courses)12ICT 339Introduction to Digital Forensics and Incident Response 312ICT 463Enterprise Network Administration 3ICT 467Communication Network Security 3ICT 477Computer Networking II 3	ICT 450	,	
TechnologyConcentration/Technical Electives (Take all 4 courses)12ICT 339Introduction to Digital Forensics and Incident Response 312ICT 463Enterprise Network Administration 312ICT 467Communication Network Security 312ICT 477Computer Networking II 313			
ICT 339Introduction to Digital Forensics and Incident Response 3ICT 463Enterprise Network Administration 3ICT 467Communication Network Security 3ICT 477Computer Networking II 3			Ū
Response ³ ICT 463 Enterprise Network Administration ³ ICT 467 Communication Network Security ³ ICT 477 Computer Networking II ³	Concentration/Technic	al Electives (Take all 4 courses)	12
ICT 463Enterprise Network Administration 3ICT 467Communication Network Security 3ICT 477Computer Networking II 3	ICT 339		
ICT 467Communication Network Security 3ICT 477Computer Networking II 3	ICT 463	-	
ICT 477 Computer Networking II ³			
		-	

Electives, to bring the total credits to 120 4	16-19
Total Credits	120

- ¹ See the General Education (https://catalogs.nmsu.edu/nmsu/generaleducation-viewing-wider-world/#viewingawiderworldtext) section of the catalog for a complete list of courses. The number of credits provided assumes MATH 1220G College Algebra placement or higher.
- ² The ICT 350V Introduction to Personal Computer Security and Privacy course is part of the required curriculum for the ICT degree. It does not count towards the Viewing a Wider World (https:// catalogs.nmsu.edu/nmsu/general-education-viewing-wider-world/ #viewingawiderworldtext) Requirements (6 credits). Visit the c (https:// catalogs.nmsu.edu/nmsu/general-education-viewing-wider-world/ #viewingawiderworldtext)atalog's Viewing a Wider World (https:// catalogs.nmsu.edu/nmsu/general-education-viewing-wider-world/ #viewingawiderworldtext) section for a complete list of Viewing a Wider World (https://catalogs.nmsu.edu/nmsu/general-educationviewing-wider-world/#viewingawiderworldtext) Requirements. These courses will form part of the required 48 upper-level credit hours taken as part of the ICT program at NMSU.
- ³ The **provided selection of Technical Electives** will lead to an ICT concentration on **Network Technologies**, one of the three concentration options. See the NMSU Catalog for information on other concentration options. Concentrations are *optional* educational sequences that students may choose to focus on in IT-related areas. A Technical Electives pre-approved list for each concentration is provided in this catalog.
- ⁴ Elective credit may vary based on prerequisites, dual credit, AP credit, double majors, or minor coursework. The amount indicated in the requirements list is needed to bring the total to 120 credits and may appear in variable form based on the degree. However, students may need to complete more or less on a case-by-case basis, and students should discuss elective requirements with their academic advisor.

Pathway: 2+2 Bachelor's Degree

Prefix	Title	Credits
General Education ¹		
Area I: Communication	s ¹	10
English Compositio	n - Level 1	
English Compositio	n - Level 2	
Oral Communicatio	ns	
Area II: Mathematics		3 - 4
MATH 1220G	College Algebra ((equivalent or higher)) 1	
Area III/IV: Laboratory	Sciences and Social/Behavioral Sciences ¹	10-11
Area V: Humanities ¹		3
Area VI: Creative and F	ine Arts ¹	3
General Education Elec	tive ¹	3-4
Viewing A Wider Worl	d ²	6
Departmental/College	Requirements	
Subject-Matter Courses	S	12
Introduction to Co	mputer Networking (such as ICT 145)	
Introduction to Info	ormation Technology (such as ICT 161)	
Introduction to Info	ormation Security (such as ICT 267)	
Introduction to We	b Development (such as ICT 280)	
ICT 141	IT Essentials I: A+ Certification Training Focused on the Hardware Exam	3
ICT 152	Java Programming	3
ICT 220	Discrete Math and Its Relationship to Information Technology	3

-	12
ICT 450Ethical HackingICT 457Introduction to Information Security TechnologyConcentration/Technical Electives (take all four courses) 3ICT 339Introduction to Digital Forensics and Incident Response 3ICT 463Enterprise Network Administration 3ICT 467Communication Network Security 3ICT 477Computer Networking II 3	12
ICT 450Ethical HackingICT 457Introduction to Information Security TechnologyConcentration/Technical Electives (take all four courses) 3ICT 339Introduction to Digital Forensics and Incident Response 3ICT 463Enterprise Network Administration 3ICT 467Communication Network Security 3	12
ICT 450Ethical HackingICT 457Introduction to Information Security TechnologyConcentration/Technical Electives (take all four courses) 3ICT 339Introduction to Digital Forensics and Incident Response 3ICT 463Enterprise Network Administration 3	12
ICT 450 Ethical Hacking ICT 457 Introduction to Information Security Technology Concentration/Technical Electives (take all four courses) ³ ICT 339 Introduction to Digital Forensics and Incident Response ³	12
ICT 450 Ethical Hacking ICT 457 Introduction to Information Security Technology Concentration/Technical Electives (take all four courses) ³ ICT 339 Introduction to Digital Forensics and Incident	12
ICT 450 Ethical Hacking ICT 457 Introduction to Information Security Technology	12
ICT 450 Ethical Hacking ICT 457 Introduction to Information Security	
	3
· · · · · · · · · · · · · · · · · · ·	3
ICT 435 Senior Project	3
ICT 377 Computer Networking I	3
ICT 364 Windows Enterprise Administration	3
ICT 362 Software Technology II	3
ICT 360 Operating Systems for ICT	3
ICT 355 Linux System Administration	3
ICT 350V Introduction to Personal Computer Security and Privacy	3
ICT 320 Introduction to Internet Protocols	3

- ¹ See the General Education (https://catalogs.nmsu.edu/nmsu/generaleducation-viewing-wider-world/#viewingawiderworldtext) section of the catalog for a complete list of courses. The number of credits provided assumes MATH 1220G College Algebra placement or higher.
- ² The ICT 350V Introduction to Personal Computer Security and Privacy course is part of the required curriculum for the ICT degree. It does not count towards the Viewing a Wider World (https:// catalogs.nmsu.edu/nmsu/general-education-viewing-wider-world/ #viewingawiderworldtext) Requirements (6 credits). Visit the c (https:// catalogs.nmsu.edu/nmsu/general-education-viewing-wider-world/ #viewingawiderworldtext)atalog's Viewing a Wider World (https:// catalogs.nmsu.edu/nmsu/general-education-viewing-wider-world/ #viewingawiderworldtext) section for a complete list of Viewing a Wider World (https://catalogs.nmsu.edu/nmsu/general-educationviewing-wider-world/#viewingawiderworldtext) Requirements. These courses will form part of the required 48 upper-level credit hours taken as part of the ICT program at NMSU.
- ³ The provided selection of Technical Electives will lead to an ICT concentration on Network Technologies, one of the three concentration options. See the NMSU Catalog for information on other concentration options. Concentrations are *optional* educational sequences that students may choose to focus on in IT-related areas. A Technical Electives pre-approved list for each concentration is provided in this catalog.
- ⁴ Elective credit may vary based on prerequisites, dual credit, AP credit, double majors, or minor coursework. The amount indicated in the requirements list is needed to bring the total to 120 credits and may appear in variable form based on the degree. However, students may need to complete more or less on a case-by-case basis, and students should discuss elective requirements with their academic advisor.