INFORMATION AND COMMUNICATION TECHNOLOGY - BACHELOR OF INFORMATION AND COMMUNICATION TECHNOLOGY

The Bachelor of Information and Communication Technology (ICT) (https://et.nmsu.edu/academics%20/information-communication-technology.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 (p. 1) (this option) 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/informationcommunication-technology-cyber-defense-bict/) - focused on cyber security and defense, including ethical hacking and digital forensics;
- Network Technologies Concentration (https://catalogs.nmsu.edu/ nmsu/engineering/engineering-technology-surveying/informationand-communication-technology-network-technologies-bict/) 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 Area I: Communications Inglish Composition - Level 1 English Composition - Level 2 Oral Communications Area II: Mathematics MATH 1220G College Algebra (Equivalent or Higher) Area IIII: Laboratory Sciences and Social/Behavioral Sciences Area IV: Social/Behavioral Sciences Course (4 credits) Area IV: Social/Behavioral Sciences Course (3 credits) Either an Area III: Laboratory Sciences Course (3 credits) Either an Area III: Laboratory Sciences of Area IV: Social/Behavioral Sciences Course (3 credits) Area V: Humanities Area V: Humanities Area V: Humanities Area V: Creative and Fine Arts Area V: Creative and Fine Arts Area V: General Education Elective 3-4 Viewing A Wider World College Requirements ICT 141	Prefix	Title	Credits
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	ICT 487	Data Security	

Second Language: (not required)	
Electives, to bring the total credits to 120 ⁴	19-16
Total Credits	120

- See the General Education (https://catalogs.nmsu.edu/nmsu/general-education-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.
- 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 catalog'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-education-viewing-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.
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Pathway: 2+2 Bachelor's Completion Degree

Prefix	Title	Credits
General Education ¹		
Area I: Communication	os ¹	10
English Compositio	n - Level 1	
English Composition	n - Level 2	
Oral Communications		
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 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 ¹		3
Area VI: Creative and F	ine Arts ¹	3
General Education Elec	ctive ¹	3-4
Viewing A Wider World ²		6
Departmental/College	e Requirements	
Subject-Matter Course	s	12
Introduction to Co	mputer Networking (such as ICT 145)	
Introduction to Inf	ormation Technology (such as ICT 161)	
Introduction to Information Security (such as ICT 267)		
Introduction to We	eb Development (such as ICT 280)	

Di		
Required Courses		
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
ICT 320	Introduction to Internet Protocols	3
ICT 350V	Introduction to Personal Computer Security and Privacy ²	3
ICT 355	Linux System Administration	3
ICT 360	Operating Systems for ICT	3
ICT 362	Software Technology II	3
ICT 364	Windows Enterprise Administration	3
ICT 377	Computer Networking I	3
ICT 435	Senior Project	3
ICT 450	Ethical Hacking	3
ICT 457	Information Security Principles	3
Technical Elective ((Choose 4 courses from the following) ³	12
ET 483	Mobile App Programming and Development	
ICT 339	Introduction to Digital Forensics and Incident Response	
ICT 372	Software Engineering and Design	
ICT 439	Advanced Digital Forensics and Incident Response	
ICT 458	Web Development and Database Applications	
ICT 460	Advanced Software Development Concepts	
ICT 463	Enterprise Linux Network Administration Tools	
ICT 467	Communication Network Security	
ICT 477	Computer Networking II	
ICT 487	Data Security	
Second Language	: (not required)	
Electives, to bring the total credits to 120 4		19-16

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120

Total Credits

- 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-education-viewing-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.
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Pathway: 4-Year Bachelor's Degree A Suggested Plan of Study for Students

These roadmaps assume student placement in MATH 1220G College Algebra or higher. The contents and order of this roadmap may vary depending on initial student placement in mathematics and previous coursework. It is only a suggested plan of study for students and is not intended as a contract. Course availability may vary from fall to spring and summer semester and may be subject to modification or change.

All Information and Communication Technology requirements must be completed with a C- or higher grade.

First Year

Fall		Credits
ICT 141	IT Essentials I: A+ Certification Training	3
	Focused on the Hardware Exam	
Elective Course 4		3
General Education A	rea I ¹	4
	rea II (MATH 1220G or Higher) ¹	3-4
General Education IV	, 1	3
	Credits	16-17
Spring		
ICT 145	Network Essentials: N+ Certification Training	3
ICT 161	IT Essentials II: A+ Certification Training	3
	focused on the Software exam	
General Education A	rea I ¹	3
General Education A	rea III ¹	4
General Education A	rea V ¹	3
	Credits	16
Second Year		
Fall		
ICT 152	Java Programming	3
ICT 220	Discrete Math and Its Relationship to	3
	Information Technology	
General Education A	rea I ¹	3
General Education A	rea VI ¹	3
Elective Course 4		3
	Credits	15
Spring		
ICT 267	Information Security+ Certification Preparation	3
ICT 280	Introduction to Web Development	3
General Education A	rea III or IV ¹	3-4
General Education El		3
Elective Course 4		3
	Credits	15-16
Third Year		
Fall		
ICT 360	Operating Systems for ICT	3
ICT 377	Computer Networking I	3
Elective Course 4	compate. Hethorning i	3
Elective Course 4		3
Elective Course 4		3
Licotive obuise	Credits	15
	Oreuna	15

Spring		
ICT 320	Introduction to Internet Protocols	3
ICT 350V	Introduction to Personal Computer Security and Privacy ²	3
ICT 355	Linux System Administration	3
ICT 364	Windows Enterprise Administration	3
Technical Elective	e (from pre-approved list) ³	3
	Credits	15
Fourth Year		
Fall		
ICT 362	Software Technology II	3
ICT 435	Senior Project	3
ICT 450	Ethical Hacking	3
Technical Elective (from pre-approved list) ³		3
Technical Elective (from pre-approved list) ³		3
	Credits	15
Spring		
ICT 457	Information Security Principles	3
Electives to bring total to 120 credits (if necessary) 4		1-0
Technical Elective (from pre-approved list) ³		3
Viewing a Wider World ²		6
	Credits	13-12
	Total Credits	120-121

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Pathway: 2+2 Bachelor's Degree A Suggested Plan of Study for Students

These roadmaps assume student placement in MATH 1220G College Algebra or higher. The contents and order of this roadmap may vary

Credits

4

First Year

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All Information and Communication Technology requirements must be completed with a C- or higher grade.

First Year		Credits
Elective Credits (include General Education credits) ^{1, 4}	30
	Credits	30
Second Year		
Elective Credits (include General Education credits) ^{1, 4}	33
	Credits	33
Third Year		
Fall		
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
ICT 360	Operating Systems for ICT	3
ICT 377	Computer Networking I	3
	Credits	15
Spring		
ICT 320	Introduction to Internet Protocols	3
ICT 350V	Introduction to Personal Computer Security and Privacy ²	3
ICT 355	Linux System Administration	3
ICT 364	Windows Enterprise Administration	3
Technical Elective	e (from pre-approved list) ³	3
	Credits	15
Fourth Year		
Fall		
ICT 362	Software Technology II	3
ICT 435	Senior Project	3
ICT 450	Ethical Hacking	3
Technical Elective	e (from pre-approved list) ³	6
	Credits	15
Spring		
ICT 457	Information Security Principles	3
Technical Elective (from pre-approved list) ³		3
Viewing a Wider \	World ²	6
	Credits	12
	Total Credits	120

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