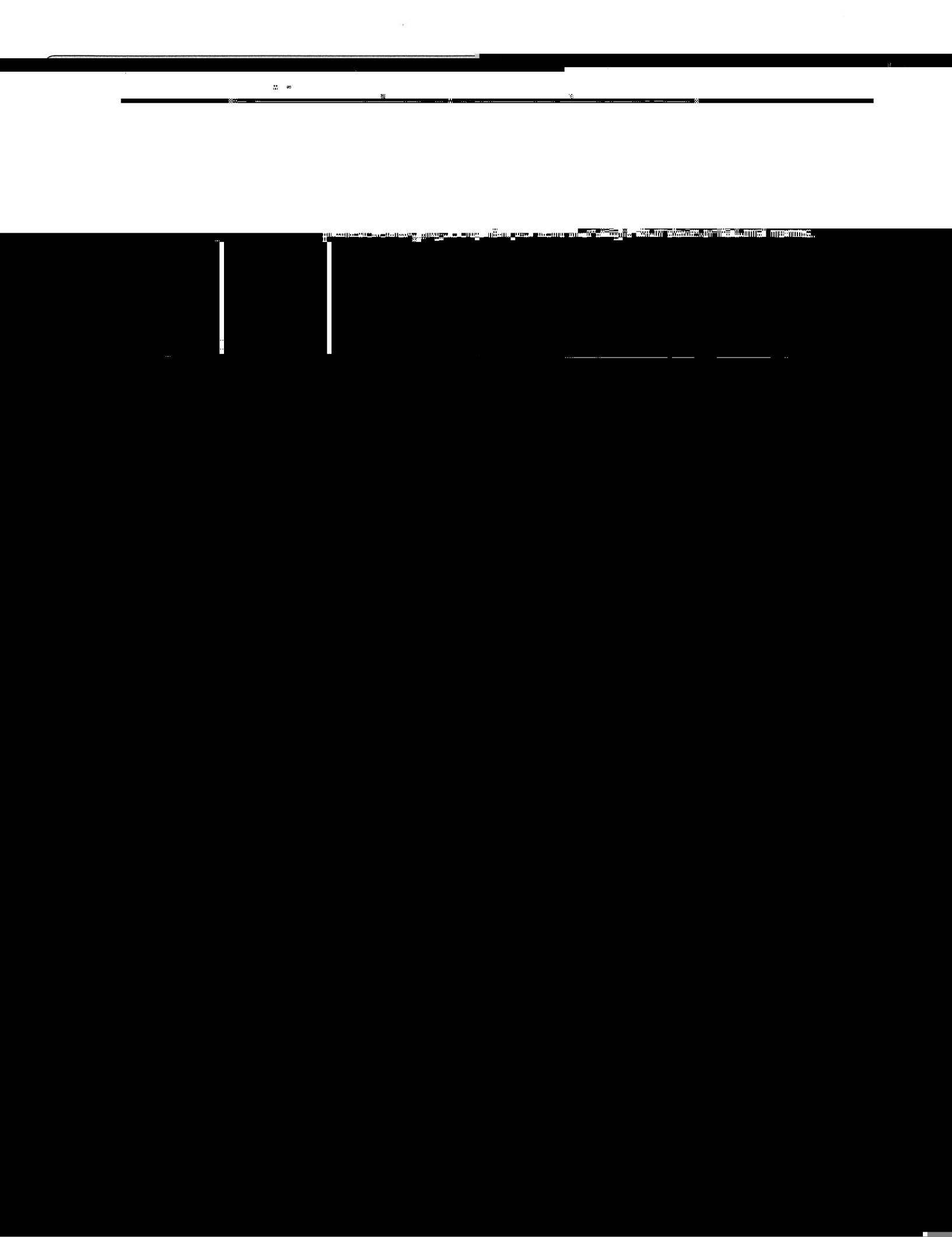
[redacted]

Current Program:	Modified Program:

[redacted]

Se[redacted]	See Attached



Information Technology (B.S.)

Offered face-to-face and fully online. The face-to-face program is available on Macon

The Bachelor of Science in Information Technology includes 6 major concentrations:

Network Technology & Administration, Integrated Digital Media & Game Design

Candidates for the baccalaureate degree in IT must complete all graduation

AREA B: INSTITUTIONAL OPTIONS (CREDIT: 4 HOURS)

Perspectives Elective	4 credits

[redacted]

[redacted]

Area F Elective		3 credits
Area F Elective		3 credits

*See complete **listing of core courses and requirements***

Area F: Lower Division Major Requirements (Credit: 18 Hours)

MAJOR FIELD – TAKE THE FOLLOWING:

ITEC 2215	Introduction to Information Technology	3 credits
ITEC 2270	Application Development	3 credits
ITEC 2320	Network Essentials	3 credits
ITEC 2380	Web Development	3 credits

***ITEC 2215**: Note: School of Information Technology will accept a passing grade of 50 from the CLEP Exam "Information Systems and Computer Applications" as credit*

Area I: Information Technology Upper Level Core

Curriculum (Required) (Credit: 21 Hours)

ITEC 3155	Systems Analysis and Design	3 credits
ITEC 3235	Human Computer Interaction	3 credits
ITEC 3245	Database Principles	3 credits
ITEC 3300	Project Management	3 credits
ITEC 4200	Foundations of Information Assurance	3 credits

includes using scientific methods and providing extensive documentation to ensure the preservation and integrity of the investigation.

REQUIRED (CREDIT: 15 HOURS)

ITEC 4321	Forensics/Data Recovery	3 credits
ITEC 4322	Advanced Digital Forensics	3 credits

CRJU 3200	Criminal Procedure & Evidence	3 credits
CRJU 4310	White Collar and Cyber Crime	3 credits

SELECT TWO CLASSES FROM THE FOLLOWING (CREDIT: 6 HOURS)

Software Engineering (SE) is defined by IEEE as "the application of a systematic, disciplined, quantifiable approach to the development, operation, and maintenance of software." SE is the discipline that provides methods and tools for constructing quality software and one of the fastest growing areas in the Information Technology field. The Software Engineering concentration will prepare IT students for careers in the field by exposing them to foundational software engineering knowledge and practical skills.

The Software Engineering concentration consists of the following 10 courses:

ITEC 3250	Software Engineering	3 credits
ITEC 3264	Data Structures and Algorithm Analysis	3 credits
ITEC 3265	Operating Systems	3 credits
ITEC 4261	Intro to JAVA Programming	3 credits
	OR	
ITEC 4266	C++ Programming	3 credits
ITEC 4270	Robot Programming	3 credits
ITEC 4329	Data Communications	3 credits
ITEC 4361	Software Security	3 credits

ITEC 3325	Windows Systems Administration	3 credits
ITEC 3328	Linux Systems Administration	3 credits
ITEC 4321	Forensics/Data Recovery	3 credits
ITEC 4341	Network Forensics and Incident Response Planning	3 credits
ITEC 4344	Ethical Hacking	3 credits
ITEC 4345	Cyber Systems Security	3 credits
ITEC 4361	Software Security	3 credits
ITEC 4370	Virtual Computing	3 credits
ITEC 4421	Network Security	3 credits

Networking Technologies And Administration Concentration (Credit: 21 Hours)

The Network Technologies & Administration concentration educates students in the use of current concepts and technologies of networking. Students will learn to analyze the needs of organizations, communicate the needs to the users, and then design and build networks to meet those needs. Graduates will be prepared for positions in networking or systems administration.

REQUIRED (CREDIT: 15 HOURS)

[redacted]

able to respond to incidents as well as increase their knowledge of

security, resilient systems, and industrial control systems.

REQUIRED (CREDIT: 21 HOURS)

ITEC 4310 Critical Infrast

Informatics Concentration (Credit: 15 Hours)

Some courses for the Informatics Concentration may

INFORMATICS: HEALTH

Required Courses (Credit: 9 Hours)

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Required Electives (Credit: 6 Hours)

Select two courses from the following:

HLSA 3360	Quality Management and Improvement	3 credits
HLSA 4410	Health Law & Ethics	3 credits
HLSA 4435	Managed Care	3 credits

Total Hours: 120

Current Program:

Area I: Information Technology Upper Level Core

ITEC 3155	Systems Analysis and Design	3 credits
ITEC 3225	Human Computer Interaction	3 credits

will learn about the tools and processes to handle digital evidence. Digital forensics includes using scientific methods and providing extensive documentation to ensure the preservation and integrity of the investigation.

REQUIRED (CREDIT: 15 HOURS)

ITEC 4321	Forensics/Data Recovery	3 credits
ITEC 4322	Advanced Digital Forensics	3 credits
ITEC 4341	Network Forensics and Incident Response Planning	3 credits
CRJU 3200	Criminal Procedure & Evidence	3 credits
CRJU 4310	White Collar and Cyber Crime	3 credits

SELECT TWO CLASSES FROM THE FOLLOWING (CREDIT: 6 HOURS)

ITEC 3328	Linux Systems Administration	3 credits
ITEC 4344	Ethical Hacking	3 credits
ITEC 4299	Special Topics in Information Technology	3 credits

Web Applications Development (Credit: 24 Hours)

The Web Applications Development concentration prepares students for the design, development, and implementation of web-based application solutions. Graduates will be

Software Engineering (SE) is defined by IEEE as "the application of a systematic, disciplined, quantifiable approach to the development, operation, and maintenance of software." SE is the discipline that provides methods and tools for constructing quality software and one of the fastest growing areas in the Information Technology field. The Software Engineering concentration will prepare IT students for careers in the field by exposing them to foundational software engineering knowledge and practical skills.

The Software Engineering concentration consists of the following 10 courses:

ITEC 3325	Windows Systems Administration	3 credits

ITEC 3328	Linux Systems Administration	3 credits
ITEC 4321	Forensics/Data Recovery	3 credits
ITEC 4341	Network Forensics and Incident Response Planning	3 credits
ITEC 4344	Ethical Hacking	3 credits
ITEC 4345	Cyber Systems Security	3 credits
ITEC 4361	Software Security	3 credits
ITEC 4370	Virtual Computing	3 credits
ITEC 4421	Network Security	3 credits

Networking Technologies And Administration Concentration (Credit: 21 Hours)

Integrated Digital Media And Game Design Concentration

(Credit: 21 Hours)

The Integrated Digital Media & Game Design concentration prepares students in the design and development of digital media and games for use in a variety of IT applications. Through the various courses, students will develop competencies in evaluating user and product needs and in designing, developing, and implementing

All courses in the Informatics Concentration are taken outside the School of Information Technology. These courses are deemed to cover the foundations, theory, and principles within each concentration. Some concentrations lead to recognized disciplines for graduate study.

[redacted]

Required Courses (Credit: 9 Hours)

[redacted]

Modified Program:

Area I: Information Technology Upper-Level Core Curriculum (Required) (Credit: 21 Hours)

ITEC 3155	Systems Analysis and Design	3 credits
ITEC 3235	Human Computer Interaction	3 credits
ITEC 3245	Database Principles	3 credits
ITEC 3300	Project Management	3 credits
ITEC 4200	Foundations of Information Assurance	3 credits

Students will learn the digital forensics process of acquisition, analysis, and reporting. Learners will carry out the procedures of identification, collection, preservation, examination, analysis, and reporting of evidence for civil and criminal cases. Students

will learn about the tools and processes to handle digital evidence. Digital forensics

includes using scientific methods and providing extensive documentation to ensure the preservation and integrity of the investigation.

REQUIRED (CREDIT: 15 HOURS)

ITEC 4321	Forensics/Data Recovery	3 credits
ITEC 4322	Advanced Digital Forensics	3 credits

ITEC 4269 Client/Server Systems Programming 3 credits

Software Engineering (Credit: 30 Hours)

Software Engineering (SE) is defined by IEEE as "the application of a systematic,

[redacted]

software." SE is the discipline that provides methods and tools for constructing quality

[redacted]

[redacted]

ITEC 4285	Web Server Administration	3 credits
ITEC 4242	Database Administration	3 credits
ITEC 4281	Wireless Technologies	3 credits
ITEC 42[illegible]	Special Topics in Infor[illegible]	

[illegible] digital [illegible] products to meet those needs. Students learn broad range of skills [illegible] ing interactive applications. Graduates will find career opportunities as digital media designers and developers, game developers, multimedia specialists and more.

REQUIRED (CREDIT: 15 HO[illegible]

ITEC 4230	2D G[illegible]ation	3 credits
ITEC [illegible]	[illegible]	3 credits

[illegible] CLASSES FROM THE [illegible]

[illegible]	Computational Intelli[illegible]	[illegible]
ITEC 4264	Web Multimedia Delivery	3 credits
[illegible]	[illegible]	3 credits
NMAC 3600	Digital Storytelling	3 credits
ITEC 4299	Special Topics of Information Technology	3 credits

Critical Infrastructure Management (Credit: 21 Hours)

Students will learn ... about the critical infrastructure sectors whose assets, systems and networks are vital to the United S... have a debilitating effect on ... security ... public health or safety. Students will be able to respond to incidents as well as increase their knowledge of terrorism, homeland security, res... system...

... 3 credits

... Recovery

...nse Plan ... ITEC 4341 Network Forensics and Incident Respon...

...ration provides ... concent...

... organizations within diverse disciplines. The ... develop IT solutions for ...

... program curri...

All courses in the Informa...

... designed to cover the foundations ...

... Some concentrations lead to recognized disciplines for ... within each c...

...TICS: HEALTH

INFORMA...

...ourses (Credit: 9 Hours)

Required Co...

HLSA 3310	American Health Care System	3 credits
HLSA 3320	Health Care Management	3 credits
HLSA 4470	Design & Management	3 credits

Required Electives (Credit: 6 Hours)

Select two courses from the following:

HLSA 3250	Public Health & Epidemiology	3 credits
HLSA 3260	Quality Management and Improvement	3 credits
HLSA 4440	Health Law & Ethics	3 credits
HLSA 4435	Managed Care	3 credits