2024 - 2025 Major Map

Information Technology, BS

School/College: Ira A. Fulton Schools of Engineering TSIFTBS

Term 1 - A 0 - 7 Credit Hours Critical course signified by 🔶	Hours	Minimum Grade	Notes
• ASU 101-TPS: The ASU Experience	1		• ASU 101 is required of all first-year
IFT 101: Information Technology Programming Logic	3	С	students.
ENG 101 or ENG 102: First-Year Composition OR ENG 105: Advanced First-Year Composition OR ENG 107 or ENG 108: First-Year Composition	3	С	 Prep for success using the First-Year Student Guide. Join a Fulton community. Euplore anging and technical
Term hours subtotal:	7		 Explore engineering and technical professions.

i chii nouis subtotai.	,		professions.	
Ferm 1 - B 7 - 13 Credit Hours	Hours	Minimum Grade	Notes	
HSE 101: Introduction to Human Systems Engineering (SOBE OR SB)	3	С	• View ASU Online first-year student registration information here.	
IFT 103: Operating System Architecture	3	С	registration information here.	
Term hours subtotal:	6			
Ferm 2 - A 13 - 22 Credit Hours Critical course signified by �	Hours	Minimum Grade	Notes	
IFT 166: Introduction to Internet Networking	3	С	• Create a Handshake profile.	
ENG 101 or ENG 102: First-Year Composition OR ENG 105: Advanced First-Year Composition OR ENG 107 or ENG 108: First-Year Composition	3	С	• Get involved with EPICS, the Generator Labs, and the Fulton Start-Up Center.	
IFT 200: Information Modeling, Storage and Retrieval	3	С		
Term hours subtotal:	9			
Cerm 2 - B 22 - 28 Credit Hours Critical course signified by �	Hours	Minimum Grade	Notes	
IFT 210: Introduction to Java Technologies	3	С		
Humanities, Arts and Design (HUAD)	3			
Complete ENG 101 OR ENG 105 OR ENG 107 course(s).				
Term hours subtotal:	6			
Ferm 3 - A 28 - 37 Credit Hours	Hours	Minimum Grade	Notes	
IFT 250: Introduction to UNIX Utilities	3	С	• Prep for success using the Sophomore	
MAT 210: Brief Calculus (MATH OR MA)	3	С	Guide.	
American Institutions (AMIT)	3			
Term hours subtotal:	9			
Cerm 3 - B 37 - 44 Credit Hours Critical course signified by �	Hours	Minimum Grade	Notes	
IFT 202: Foundations of Information and Computer System Security	3	С		

Scientific Thinking in Natural Sciences (SCIT)

Complete Mathematics (MATH) requirement.

4

Term hours subtotal:	7			
Term 4 - A 44 - 53 Credit Hours		Minimum Grade	Notes	
HSE 230: Statistics for Human Systems Research I (QTRS OR CS)	3	С	• Pursue an undergraduate research	
IFT 266: Network Information Communication Technology			experience.	
Governance and Civic Engagement (CIVI)	3		• Apply for internships.	
Term hours subtotal:	9		• Attend career fairs and events.	
$^{\circ}$ erm 4 - B 53 - 60 Credit Hours Critical course signified by $igoplus$	Hours	Minimum Grade	Notes	
IFT 220: Managing Configurations and Active Directory	3	С		
Scientific Thinking in Natural Sciences (SCIT)	4			
Term hours subtotal:	7			
Yerm 5 - A 60 - 69 Credit Hours Necessary course signified by 🛠	Hours	Minimum Grade	Notes	
FT 381: Information System Security	3	С	 Plan for success using the Junior Gu Network at student organization 	
IFT 301: Web Programming for Human Computer Interface	3	С		
Sustainability (SUST)	3		competitions or professional societies.	
Term hours subtotal:	9			
$^{\circ}$ erm 5 - B 69 - 75 Credit Hours Necessary course signified by \overleftrightarrow	Hours	Minimum Grade	Notes	
MAT 243: Discrete Mathematical Structures	3			
IFT 320: Managing the Cloud	3	С		
Term hours subtotal:	6			
$^{\circ}$ erm 6 - $ m A$ 75 - 81 Credit Hours Necessary course signified by \overleftrightarrow	Hours	Minimum Grade	Notes	
FT 300: Intermediate Database Management Systems	3	С	• Research and prepare for graduate	
IFT 383: Shell and Script Programming with UNIX	3	С	school.	
Term hours subtotal:	6		• Apply for a Fulton Schools 4+1 program.	

• Develop a professional profile online.

Term 6 - B 81 - 90 Credit Hours Necessary course signified by	Hours	Minimum Grade
☆ IFT 310: Information Systems Project Development	3	С
HST 318: History of Engineering (HUAD OR (L or SB) & G)	3	
Upper Division Primary Focus Area	3	С
Term hours subtotal:	9	

• A secondary focus area is a group of
A secondary focus area is a group of
courses comprising of 0 or more credit
courses comprising of 9 or more credit
have (at least 2 much have the
hours (at least 3 must be at the
upper-division level) which form a
and a second of a second
coherent theme.

Notes

Term 7 - A 90 - 99 Credit Hours		Hours	Minimum Grade	
IFT 372: Wireless Fundamentals		3	С	• A s
Upper Division Primary Focus Area		3	С	• A s
Secondary Focus Area		3		hou
	Term hours subtotal:	9		upp

• A secondary focus area is a group of courses comprising of 9 or more credit hours (at least 3 must be at the upper-division level) which form a coherent theme.

Notes

- Plan for success using the Senior Guide.
- Use Handshake to apply for full-time positions.

• Complete an in person or virtual practice interview.

$\Gamma m erm$ 7 - $ m B$ 99 - 105 Credit Hours Necessary course signified by $ m m$	Hours	Minimum Grade	Notes
🚖 IFT 458: Middleware Programming and Database Security	3	С	
Upper Division Primary Focus Area	3	С	
Term hours subtota	l: 6		
Cerm 8 - A 105 - 111 Credit Hours Necessary course signified by	Hours	Minimum Grade	Notes
IFT 401: Information Technology Capstone	3		
Secondary Focus Area	3		
Term hours subtota	1: 6		
erm 8 - B 111 - 120 Credit Hours	Hours	Minimum Grade	Notes
IFT 484: Internship OR Upper Division Secondary Focus Area	3		• • • • • • • • • • • • • • • • • • • •
Upper Division Primary Focus Area	3		 A secondary focus area is a group of courses comprising of 9 or more credit
Global Communities, Societies and Individuals (GCSI)	3		hours (at least 3 must be at the
Term hours subtotal:	9		upper-division level) which form a

- upper-division level) which form a coherent theme.
- Students choose one primary focus area (12 hours). Students must take primary focus area courses sequentially in order to meet the prerequisites of subsequent upper-division courses.

Hide Course List(s)/Track Group(s)

Networking Focus Area	Information Systems Focus Area	Security Focus Area	
IFT 366: TCP/IP and Routing	IFT 360: Applications in Artificial	IFT 380: Advanced Systems Configuration	
IFT 380: Advanced Systems Configuration	Intelligence	Management	
Management	IFT 365: Applied Programming Language for Information Technology	IFT 422: Cloud Security and Operations fo Information Technology	
IFT 420: Cloud Architecture for Information Technology	IFT 370: Mobile Computing and	IFT 460: Managing Intelligent Devices in an	
IFT 460: Managing Intelligent Devices in an	Applications for Information Technology	Enterprise Environment	
Enterprise Environment	IFT 410: Big Data Tools and Practices	IFT 475: Security Analysis	
IFT 466: Advanced Computer Networks for	IFT 421: Data in the Cloud for Information	IFT 482: Network Forensics IFT 483: Security Compliance for	
Information Technology	Technology		
IFT 488: Systems Administration of UNIX	IFT 460: Managing Intelligent Devices in an	Information Technology IFT 488: Systems Administration of UNIX	
IFT 494: Wireless Architecture	Enterprise Environment		
	IFT 494: Appl Multi Tier End to End Application Development		

- Total Hours: 120
- Upper Division Hours: 45 minimum
- University Undergraduate Graduation Requirements

Notes:

Mathematics Placement Assessment score determines placement in first mathematics course.

General Studies designations listed next to courses on the major map were valid for the 2024 - 2025 academic year. Please refer to the course catalog for current General Studies designations at time of class registration. General Studies credit is applied according to the designation the course carries at the time the class is taken.