

THE UNIVERSITY OF TEXAS AT TYLER
Soules College of Business
Undergraduate Advising 903-566-7363

**BS in
Information Tech**
2022-2023
Good through Summer 2022

Hours Remaining: 120
*Approx. amount of hours remaining
*Includes currently enrolled courses

STUDENT: _____ **ID:** _____
PHONE: _____ **ADVISOR:** _____ **DATE:** _____

Suggested University Core for BS Information Technology students (see catalog) 42 hours					
Core complete on transcript from another Texas public institution prior to attending UT Tyler equates to core complete at UT Tyler.					
Core Category	Satisfied	Grade I	Grade II	Required Course Prefix & Number (All Core Courses require a "C" or higher) (Course numbers are listed according to UTT; transfer numbers may vary)	
Communication				6 hrs. ENGL 1301, 1302, 2311, CMST 1315, *HNRS 1352	
Math				3 hrs. Track specific	
Life & Physical Science				6 hrs. See Core Curriculum List for Options (Lab Science not required)	
Language, Phil. & Culture				3 hrs. ENGL 2322, 2323, 2350, 2362, 2363, 2370, HIST 2321, HIST 2322, PHIL 1301, 1304, 2303, 2306, 2331, *HNRS 1351	
Creative Arts				3 hrs. ART 1301, 1306, 2303 2304, MUSI 1306, 2301, 2308, THTR 1301, 1356, *HNRS 2352	
History				6 hrs. HIST 1301, HIST 1302, HIST 1303	
Political Science				6 hrs. POLS 2305, POLS 2306	
Social Sciences				3 hrs. ANTH 2346; ECON 1301, 2301, 2302; PSYC 1301, GEOG 1313, SOCI 1301, CRIJ 1301	
Human Expression				3 hrs. ENGL 1301, 1302, 2322, 2323, 2350, 2362, 2362, 2363, 2370; MCOM 2307, PHIL 2331, CMST 1311, *HNRS 1351, *HNRS 2351	
STEM				3 hrs. ALHS 1315, CHEM 1330, 1350, PHYS 1303, BIOL 1320 recommended or see CORE list for more options	
IT CORE: Required Courses – 30 hours ("C" or higher)		Prerequisites		Grade at Completion	Semester to be Taken
COSC 1307	Intro. to Information System Software	None			
COSC 1315 (or 1336)	Program Fund For Non CS Majors	None			
COSC 1337	Object Oriented Paradigm	COSC 1315 or COSC 1336			
COSC 2315	Computer Organization	COSC 1315 & Any MATH			
COSC 3385	Database Design	COSC 1337			SPRING
COSC 4325	Data Com & Comp Networks	Jr. or Sr. Classification & CIS/IT Major			FALL
MANA 3370	Bus. Writing and Oral Presentations	None			
COSC 3315	Social & Professional Issues	COSC 1337			
COSC 4362	Retail Cyber Security	COSC 4325 or COSC 4360			FALL
CSCI 4385	IT Capstone	COSC 3315 and COSC 3385			
Prescribed Track Electives – 30 hours ("C" or higher)		Track Requirement (See Catalog for Prerequisites)		Grade at Completion	Semester to be Taken
		Track 1-			
		Track 1-			
		Track 1-			
		Track 2-			
		Track 2-			
		Track 2-			
		General Track Elective			
		General Track Elective			
		General Track Elective			
		General Track Elective			
Free Electives – 18 hours minimum (Upper or Lower Division)					
Elective				3 hrs. General	
Elective				3 hrs. General	
Elective				3 hrs. General	
Elective				3 hrs. General	
Elective				2 hrs. General	
Elective				3 hrs. General	
(Must complete at least 24 of the last 30 Upper-Division credit hours in residence at UT Tyler)					

Student Signature

Advisor Signature

NOTES – Student is seeking a Bachelor of Science (BS) with a major in Information Technology; must have a minimum of 120 hours (42 UD hours and 45 resident hours for honors eligibility) and a UT Tyler GPA of 2.0+ to be eligible for graduation. International students must have all transient classes approved through the Office of International Programs. Please see your Advisor for an updated list of electives offered each semester.

BS in Information TRACK Requirements:

30 hours of prescribed track electives are required.

- Students must complete 18 hours of prescribed track electives in two tracks (9 hours toward each track).
- Students must complete 12 additional hours of prescribed track electives. These *can* be used to fulfill a third track but a third track is not required.

Track Option #1 Cybersecurity

- COSC 4361 Computer Security Management
- COSC 4363 Contingency Planning
- COSC 4364 Cyber Risk Analysis
- COSC 4367 Cryptography
- COSC 4388 Digital Forensics
- CSCI 4362 Ethical Hacking
- CSCI 4363 Malware Reverse Engineering

Track Option #2 Data Analytics

The Data Analytics Track requires MATH 1342 and MATH 1343. MARK 3311 is required in this track and is a prerequisite to the other courses. (Statistics I and II)

- MARK 3311 Principles of Marketing
- COSC 4342 Sports Data Analytics
- COSC 4347 Business Intelligences and Analysis
- MARK 4340 Consumer Insights

Track Option #3 Computer Architecture

The Architecture Track requires MATH 2413 and COSC 2336. (Precalculus and Calculus I)

- COSC 2336 Data Structures and Algorithms
- COSC 3345 Computer Architecture
- COSC 3355 Operating Systems
- CSCI 4333 Assembly Language Programming
- COSC 4360 Net-Centric Computing ****If selected in this track, this course must be taken after COSC 4325.**

Track Option #4 Programming

The Programming track requires MATH 2413, MATH 2330, and COSC 2336. (Precalculus and Calculus I)

- COSC 2336 Data Structures and Algorithms
- COSC 3325 Algorithm Analysis and Foundations
- COSC 4336 Software Development
- COSC 4315 Information and Knowledge Management
- COSC 4356 Computer Vision
- COSC 4345 Computer Graphics
- CSCI 4332 Modern Programming
- CSCI 4320 Computational Theory
- CSCI 4350 Machine Learning
- COSC 4335 Artificial Intelligence

Track Option #5 Data Management

The Data Management track requires MATH 2413 and COSC 2336. (Precalculus and Calculus I)

- COSC 2336 Data Structures and Algorithms
- COSC 4352 Data Mining
- COSC 4373 Advanced Database Management Concepts
- COSC 4385 Database Mgmt. Concepts ****If selected in this track, this course must be taken after COSC 3385.**

Track Option #6 Entrepreneurship (May not be available in one academic year)

- MANA 3311 Fundamentals of Management
- MANA 3325 Entrepreneurship
- MANA 4320 New Venture Planning (Availability TBD)

General Track Electives

These can be used to fulfill a track elective, but are not applied to a specific Track.

- COSC 4312 ERP Architecture Using SAP
- COSC 3375 Systems Analysis and Design
- COSC 3331 E-Commerce Programming
- COSC 4327 UNIX Shell Programming
- COSC 3333 Management Information Systems** IT degree plan ONLY