

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

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

**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, 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
<b>COSC 1307</b> Intro. to Information System Software	None		
<b>COSC 1315 (or 1336)</b> Program Fund For Non CS Majors	None		
<b>COSC 1337</b> Object Oriented Paradigm	COSC 1315 or COSC 1336		
<b>COSC 2315</b> Computer Organization	COSC 1336 & Any MATH		
<b>COSC 3385</b> Database Design	COSC 1337		<b>SPRING</b>
<b>COSC 4325</b> Data Com & Comp Networks	Jr. or Sr. Classification & CIS/IT Major		<b>FALL</b>
<b>MANA 3370</b> Bus. Writing and Oral Presentations	None		
<b>COSC 3315</b> Social & Professional Issues	COSC 1337		
<b>COSC 4362</b> Retail Cyber Security	COSC 4325 or COSC 4360		<b>FALL</b>
<b>CSCI 4385</b> 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 Courses

- 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.*

- 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*

- 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.*

- 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.*

- 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 will not apply 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**