

Hours Remaining: 120

*Approx. amount of hours remaining

*Includes currently enrolled courses

STUDENT: _____

ID: _____

NOTES: _____ ADVISOR: _____ DATE: _____

University Core for BS Information Technology Students – 42 Hours				
Core complete on transcript from another Texas public institution prior to attending UT Tyler equates to core complete at UT Tyler.				
Core Area	Satisfied	Grade I	Grade II	Required Course Prefix & Number (Course numbers are listed according to UTT; transfer numbers may vary)
Communication				6 hrs. ENGL 1301, 1302, 2311; CMST 1315; *HNRS 1352
Mathematics				3 hrs. Track specific
Life & Physical Sciences				6 hrs. See Core Curriculum list for options (Lab Science not required)
Language, Philosophy & 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, 1313, 2301, 2308; THTR 1301, 1356; *HNRS 2352
American History				6 hrs. HIST 1301, HIST 1302, HIST 1303
Political Science				6 hrs. POLS 2305, POLS 2306
Social & Behavioral Sciences				3 hrs. ANTH 2346; CRIJ 1301; ECON 1301, 2301, 2302; GEOG 1313; PSYC 1301; SOCI 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. See CORE list for Math/Science options or ALHS 1315
Required Seminars – 0 Hours (credit/non-credit)				
Required for all first time in college admits. Waived for transfer admits.				
First Year Seminars				0 hrs. GENB 1000 (Soules Success), UNIV 1000 (Student Success)
IT CORE: Required Courses – 30 Hours		Prerequisites		Grade at Completion
All courses require a "C" or higher				Semester to be Taken
COSC 1307	Intro. to Information System Software	None		
COSC 1315	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		
COSC 4325	Data Com & Comp Networks (FALL ONLY)	Jr. or Sr. Classification & CIS/IT Major		FALL
MANA 3370	Bus. Writing and Oral Presentations	None		
COSC 3315	Social & Professional Issues in Computing	COSC 1337		
COSC 4362	Retail Cyber Security (FALL ONLY)	None (all LD COSC courses complete)		FALL
CSCI 4385	IT Capstone	COSC 3315 and COSC 3385		
Prescribed Track Electives – 30 Hours		Track Requirement		Grade at Completion
All courses require a "C" or higher				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-Choice Electives – 18 Hours Minimum		Course Used		Grade at Completion
See catalog for prerequisites.				Semester to be Taken
3 hrs. ANY course in ANY subject numbered 1000s-4000s				
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Estimated Graduation Semester: _____

*This is an estimate only and is subject to change based on course offerings, student enrollment, and successful completion of courses. Student should regularly consult academic advisor for confirmation of graduation timeline.

Student Signature_____
Advisor Signature

NOTE: Student is seeking a Bachelor of Science (BS) with a major in Information Technology and must meet all [university](#), [college](#), and degree requirements to be eligible for graduation.

UD COSC/CSCI Electives: Please see your advisor for an updated list of electives offered each semester.

BS in Information Technology Track Requirements:

30 Hours of Prescribed Track Electives 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 general/overflow track electives.

Track Option: Cybersecurity		
No Specific Math Required		
Course	Title	Prerequisites
COSC 4361	Retail Cybersecurity Management (SPRING)	COSC 1337
COSC 4363	Contingency Planning	COSC 1337
COSC 4364	Cyber Risk Analysis	COSC 1337
COSC 4367	Cryptography	COSC 1337
COSC 4388	Digital Forensics	COSC 1337
CSCI 4362	Ethical Hacking	Jr./Sr. Standing
CSCI 4363	Malware Reverse Engineering	COSC 1337

Track Option: Entrepreneurship		
No Specific Math Required		
Course	Title	Prerequisites
CSCI 4345	Information Technology Startup Development	None
MANA 3311 or 3315	Fundamentals of Management/Organizational Behavior	None
MANA 3325	Entrepreneurship	None
MANA 4320	New Venture Planning (SPRING)	None
MARK 4345	Social Media Marketing (FALL)	None
TECH 3331	Project Management	None

Track Option: Data Analytics		
Requires: MATH 1324 & GENB 2300 (Math for Business & Business Statistics)		
Course	Title	Prerequisites
MARK 3311	Principles of Marketing	None
MARK 4340	Consumer Insights	MARK 3311
COSC 4342	Sports Data Analytics (FALL)	MATH 1324 & GENB 2300
COSC 4347	Business Intelligence and Analysis (SPRING)	MATH 1324 & GENB 2300
CSCI 4350	Machine Learning	COSC 1336

Track Option: Programming		
Requires: MATH 2312 & MATH 2413 (Precalculus & Calculus I)		
Course	Title	Prerequisites
COSC 2336	Data Structures and Algorithms	COSC 1337 & MATH 2413
COSC 3325	Algorithm Analysis and Foundations (FALL)	COSC 2336 & MATH 2330
COSC 4335	Artificial Intelligence	COSC 1337
COSC 4336	Software Development (FALL)	COSC 2336
COSC 4340	Comparative Study of Programming Languages	COSC 2336
COSC 4345	Computer Graphics	COSC 2336
COSC 4356	Computer Vision	COSC 2336
COSC 4377	Compiler Techniques	COSC 2315 & COSC 2336
CSCI 4320	Computational Theory	COSC 2336
CSCI 4332	Modern Programming	COSC 1315 or COSC 1336

Track Option: Computer Architecture		
Requires: MATH 2312 & MATH 2413 (Precalculus & Calculus I)		
Course	Title	Prerequisites
COSC 2336	Data Structures and Algorithms	COSC 1337 & MATH 2413
COSC 3345	Computer Architecture (FALL)	COSC 2315
COSC 3355	Operating Systems (SPRING)	COSC 2315 & COSC 2336
COSC 4327	UNIX Shell Programming	COSC 1315 or COSC 1336
COSC 4360	Net-Centric Computing (FALL)	COSC 2315 & COSC 2336
CSCI 4333	Assembly Language Programming (FALL)	COSC 2315

Track Option: Data Management		
Requires: MATH 2312 & MATH 2413 (Precalculus & Calculus I)		
Course	Title	Prerequisites
COSC 2336	Data Structures and Algorithms	COSC 1337 & MATH 2413
COSC 4315	Information and Knowledge Management (SPRING)	COSC 1337
COSC 4352	Data Mining	COSC 2336
COSC 4373	Advanced Database Management Concepts	COSC 4385
COSC 4385	Database Management Concepts	COSC 2336

General Track Electives		
These can be used to fulfill a general track elective and will not apply to a specific track.		
Course	Title	Prerequisites
COSC 3331	E-Commerce Programming	COSC 1337
COSC 3333	Management Information Systems (IT/CIS degree plans ONLY)	COSC 1307
COSC 3375	Analysis and Logical Design	COSC 1337
COSC 4312	ERP Architecture Using SAP	COSC 1337
CSCI 4351	Applied Deep Learning	COSC 1337
COSC 4370	Internship	Department Consent Required
COSC 4381	Seminar in Computer Science	Jr./Sr. Standing
COSC 4390	Topics in Computer Science	Instructor Consent Required
CSCI 3325	Video Game Development I	COSC 1315 or COSC 1336
CSCI 3326	Video Game Development II	CSCI 3325 & COSC 1337