We are excited about your interest in transferring to UTA! Please check out our interactive online transfer tool – <u>Maverick Transfer Track</u> – to track your progress toward your degree utilizing your transfer credits.

The Department of Computer Science and Engineering offers three programs of study leading to the bachelor's degree: The Bachelor of Science in Computer Science, the Bachelor of Science in Computer Engineering, and the Bachelor of Science in Software Engineering.

In all three programs of study, design experiences are included throughout the first three years of the curriculum and culminate in a major teamoriented project in the senior year that approximates an industrial work experience. All programs strive to provide students with opportunities to interface with the profession through avenues such as cooperative education programs, professional society activities, plant trips, special projects, and industry speakers' programs.

#### GENERAL CORE REQUIREMENTS - BACHELOR OF SCIENCE IN COMPUTER SCIENCE Select two of the following: **UTA COURSE UTA COURSE TITLE** TCC COURSE **COMS 1301** FUNDAMENTALS OF PUBLIC SPEAKING SPCH 1311 **COMS 2302** PROFESSIONAL AND TECHNICAL COMMUNICATION FOR SCIENCE AND ENGINEERING N/A ENGL 1301 RHETORIC AND COMPOSITION I ENGL 1301 RHETORIC AND COMPOSITION II ENGL 1302 **ENGL 1302 Total Hours**

#### **CREATIVE ARTS**

Select one of the following:		3
UTA COURSE	UTA COURSE TITLE	TCC COURSE
ARCH 1301	INTRODUCTION TO ARCHITECTURE AND INTERIOR DESIGN	N/A
ART 1301	ART APPRECIATION	ARTS 1301
ART 1309	ART OF THE WESTERN WORLD I: GREECE THROUGH RENAISSANCE	ARTS 1303
ART 1310	ART OF THE WESTERN WORLD II: BAROQUE TO MODERN	ARTS 1304
<b>DNCE 1300</b>	DANCE APPRECIATION	DANC 2303
MUSI 1300	MUSIC APPRECIATION	MUSI 1306
THEA 1342	THEATRE AND FILM APPRECIATION	N/A
THEA 1343	INTRODUCTION TO THEATRE	DRAM 1310
MUSI 1302	JAZZ APPRECIATION	N/A
MUSI 2300	INTRODUCTION TO WORLD MUSIC	N/A
MUSI 2301	APPRECIATION OF MUSIC IN FILM	N/A
Total Hours		3

#### GOVERNMENT/POLITICAL SCIENCE

UTA COURSE	UTA COURSE TITLE	TCC COURSE
POLS 2311	GOVERNMENT OF THE UNITED STATES	GOVT 2305
POLS 2312	STATE AND LOCAL GOVERNMENT	GOVT 2306
Total Hours		6

#### LANGUAGE, PHILOSOPHY AND CULTURE

Select one of the fol	owing:	3
LITA COLIDSE	LITA COLIRSE TITLE	TCC COLIRSE

UTA COURSE	<u>UTA COURSE TITLE</u>	TCC COURSE
ANTH 2322	GLOBAL CULTURES	ANTH 2351
ARAB 2310	ARABIC CULTURE IN THE WORLD	N/A
ARAB 2314	INTERMEDIATE ARABIC II	N/A
ARCH 2300	MASTERWORKS OF WESTERN ARCHITECTURE	N/A
ART 1317	THE ART OF NONWESTERN TRADITIONS	N/A
CHIN 2310	CHINESE CULTURE IN THE WORLD	N/A
CHIN 2314	INTERMEDIATE CHINESE II	CHIN 2312
ENGL 2303	TOPICS IN LITERATURE	ENGL 2341
ENGL 2309	WORLD LITERATURE	N/A

FREN 2310	FRENCH AND FRANCOPHONE CULTURES IN THE WORLD	N/A
FREN 2314	INTERMEDIATE FRENCH II	FREN 2312
GERM 2310	GERMAN CULTURE IN THE WORLD	N/A
<b>GERM 2314</b>	INTERMEDIATE GERMAN II	GERM 2312
GLOBAL 2301	INTRODUCTION TO GLOBAL ISSUES	N/A
INTS 1310	INTRODUCTION TO POPULAR CULTURE	N/A
MAS 2300	INTRODUCTION TO MEXICAN AMERICAN STUDIES	HUMA 1305
KORE 2310	KOREAN CULTURE IN THE WORLD	N/A
KORE 2314	INTERMEDIATE KOREAN II	N/A
LING 2371	LANGUAGE IN A MULTICULTURAL USA	N/A
PHIL 2300	INTRODUCTION TO PHILOSOPHY	PHIL 1301
PORT 2314	INTERMEDIATE PORTUGUESE II	N/A
SOCI 1310	INTRODUCTION TO POPULAR CULTURE	N/A
RUSS 2310	RUSSIAN CULTURE IN THE WORLD	N/A
RUSS 2314	INTERMEDIATE RUSSIAN II	N/A
SPAN 2310	HISPANIC CULTURE IN THE WORLD	N/A
SPAN 2314	INTERMEDIATE SPANISH II	SPAN 2312
PHIL 1304	CONTEMPORARY MORAL PROBLEMS	N/A
CLAS 1300	INTRODUCTION TO CLASSICAL MYTHOLOGY	N/A
LATN 2314	LATIN LEVEL IV	N/A
HIST 2377	FLIGHT CULTURE AND THE HUMAN EXPERIENCE	N/A
Total Hours		3

#### LIFE AND PHYSICAL SCIENCE

Select two of the following: **UTA COURSE UTA COURSE TITLE** TCC COURSE BIOL 1441 CELL AND MOLECULAR BIOLOGY **BIOL 1406 BIOL 1442 EVOLUTION AND ECOLOGY BIOL 1407 CHEM 1441** GENERAL CHEMISTRY I **CHEM 1411 PHYS 1441** GENERAL COLLEGE PHYSICS I PHYS 1401 **PHYS 1442** GENERAL COLLEGE PHYSICS II PHYS 1402 **Total Hours** 6

### **MATHEMATICS**

 Select two of the following:
 6

 UTA COURSE
 UTA COURSE TITLE
 TCC COURSE

 MATH 1302
 COLLEGE ALGEBRA
 MATH 1314

 MATH 1303
 TRIGONOMETRY
 MATH 1316

 Total Hours
 6

### SOCIAL AND BEHAVIORAL SCIENCES

3 Select one of the following: **UTA COURSE** TCC COURSE UTA COURSE TITLE **AAST 2300** INTRODUCTION TO AFRICAN AMERICAN STUDIES N/A **ANTH 1306** INTRODUCTION TO ANTHROPOLOGY **ANTH 2346 CRCJ 2334** INTRODUCTION TO THE CRIMINAL JUSTICE SYSTEM CRIJ 1301 **ECON 2305** PRINCIPLES OF MACROECONOMICS ECON 2301 **ECON 2306** PRINCIPLES OF MICROECONOMICS ECON 2302 **ECON 2337 ECONOMICS OF SOCIAL ISSUES** N/A FINA 2330 MONEY, FINANCE AND THE MODERN CONSUMER N/A **GEOG 2302 HUMAN GEOGRAPHY GEOG 1302 GEOG 1303 GEOG 2303** WORLD REGIONAL GEOGRAPHY IE 2308 **ECONOMICS FOR ENGINEERS** N/A KINE 2350 PUBLIC HEALTH: PRINCIPLES AND POPULATIONS N/A LING 2301 INTRODUCTION TO THE STUDY OF HUMAN LANGUAGE N/A

N/A

N/A

N/A

**PSYC 2301** 

**SOCI 1301** 

**SOCI 1306** 

3

COMMUNICATIONS IN ORGANIZATIONS

LIFE SPAN DEVELOPMENT AND HUMAN BEHAVIOR

INTRODUCTION TO PSYCHOLOGY

INTRODUCTION TO SOCIAL WORK

INTRODUCTION TO SOCIOLOGY

**SOCIAL PROBLEMS** 

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**MANA 2302** 

**PSYC 1315** 

**SOCI 1311** 

**SOCI 2312** 

SOCW 2302

**SOCW 2361** 

**Total Hours** 

UTA COURSE	UTA COURSE TITLE	TCC COURSE
HIST 1301	HISTORY OF THE UNITED STATES TO 1865	HIST 1301

HIST 1302	HISTORY OF THE UNITED STATES, 1865 TO PRESENT	HIST 1302	
Total Hours			6

# FOUNDATIONAL COMPONENT AREA OPTION

Any course listed in the General Core Requirements. A course may only fulfill one component area.

Total Hours 3

## Core Curriculum

Core Curriculum		
General Core Rec	puirements	
	TS FOR BACHELOR OF SCIENCE IN COMPUTER SCIENCE	
UTA COURSE	UTA COURSE TITLE	TCC COURSE
ENGL 1301	RHETORIC AND COMPOSITION I	ENGL 1301
ENGL 1302	RHETORIC AND COMPOSITION II	ENGL 1302
COMS 2302	PROFESSIONAL AND TECHNICAL COMMUNICATION FOR SCIENCE AND ENGINEERING	3 Hours
Language, Philosophy		3 Hours
Foundational Compor		3 Hours
Political Science (Gov		0110013
POLS 2311	GOVERNMENT OF THE UNITED STATES	GOVT 2305
POLS 2312	STATE AND LOCAL GOVERNMENT	GOVT 2306
US History	OTALE THE EGGAL GOVERNMENT	OOV1 2000
HIST 1301	HISTORY OF THE UNITED STATES TO 1865	HIST 1301
HIST 1302	HISTORY OF THE UNITED STATES, 1865 TO PRESENT	HIST 1302
Creative Arts <sup>1</sup>	THE OTHER OF THE OTHER OF THE CENT	3 Hours
Social & Behavioral S	ciences	3 Hours
Mathematics	<del></del>	0 1 1001 3
MATH 1426	CALCULUS I	MATH 2413
MATH 1308	ELEMENTARY STATISTICAL ANALYSIS	MATH 1342
	nce (Biology recommended)	1012
PHYS 1443	GENERAL TECHNICAL PHYSICS I	PHYS 2425
PHYS 1444	GENERAL TECHNICAL PHYSICS II	PHYS 2426
One of the followi		1 Hour
UNIV 1131	STUDENT SUCCESS or	1 Hours
or ENGR 1101		i nours
PRE-PROFESSIONAL		
ENGR 1250	PROBLEM SOLVING IN ENGINEERING or	2 Hours
Or ENGR 1251	PROBLEM SOLVING IN ENGINEERING OF PRECALCULUS STUDENTS	Z 1 10UIS
MATH 1426	CALCULUS I	MATH 2413
MATH 2425	CALCULUS II	MATH 2414
PHYS 1443	GENERAL TECHNICAL PHYSICS I	PHYS 2425
PHYS 1443	GENERAL TECHNICAL PHYSICS II	PHYS 2425 PHYS 2426
ENGL 1301	RHETORIC AND COMPOSITION I	ENGL 1301
CSE 1205	INTRODUCTION TO COMPUTER SCIENCE AND ENGINEERING	2 Hours
CSE 1205 CSE 1310	INTRODUCTION TO COMPUTER SCIENCE AND ENGINEERING  INTRODUCTION TO COMPUTERS & PROGRAMMING	3 Hours
CSE 1320	INTERMEDIATE PROGRAMMING	3 Hours
CSE 1325	OBJECT-ORIENTED PROGRAMMING	3 Hours
CSE 2312	COMPUTER ORGANIZATION & ASSEMBLY LANGUAGE PROGRAMMING	3 Hours
CSE 2315	DISCRETE STRUCTURES	3 Hours
CSE 3318	ALGORITHMS & DATA STRUCTURES	3 Hours
PROFESSIONAL COL		3 1 1001 5
IE 3301	ENGINEERING PROBABILITY	3 Hours
or MATH 3313	INTRODUCTION TO PROBABILITY	0110013
CSE 3302	PROGRAMMING LANGUAGES	3 Hours
CSE 3310	FUNDAMENTALS OF SOFTWARE ENGINEERING	3 Hours
CSE 3315	THEORETICAL CONCEPTS IN COMPUTER SCIENCE AND ENGINEERING	3 Hours
CSE 3320	OPERATING SYSTEMS	3 Hours
CSE 3330	DATABASE SYSTEMS AND FILE STRUCTURES	3 Hours
CSE 3380	LINEAR ALGEBRA FOR CSE or	3 Hours
or MATH 3330	INTRODUCTION TO LINEAR ALGEBRA AND VECTOR SPACES	2
CSE 4308	ARTIFICIAL INTELLIGENCE	3 Hours
CSE 4314	PROFESSIONAL PRACTICES	3 Hours
CSE 4316	COMPUTER SYSTEM DESIGN PROJECT I	3 Hours
CSE 4317	COMPUTER SYSTEM DESIGN PROJECT II	3 Hours
CSE 4344	COMPUTER NETWORK ORGANIZATION	3 Hours
Select one of the follo		3 Hours
20.000 01 010 10110	···· <b>y</b>	3 1 10 010

CSE 4303	COMPUTER GRAPHICS	
CSE 4305	COMPILERS FOR ALGORITHMIC LANGUAGES	
CSE 4360	AUTONOMOUS ROBOT DESIGN AND PROGRAMMING	
Select one of the following:		3 Hours
CSE 4380	INFORMATION SECURITY	
CSE 4381	INFORMATION SECURITY II	
CSE 4382	SECURE PROGRAMMING	
Approved Mathematics elective <sup>2</sup>		3 Hours
Approved Technical electives <sup>2</sup>		12 Hours
Total Hours		123

- 1 All pre-professional courses must be completed with a C or better before enrolling in professional courses
- 2 A list of acceptable electives is available from the departmental office or Web site.
- 3 All prerequisites for professional courses must be completed with a C or better