

Texas Tech University

Whitacre College of Engineering

Last Modified:

Dual Bachelor of Science in Computer Science and Mathematics

June 2011

First Year

Fall		SPC Course	Hrs	Spring		SPC Course	Hrs	
<input type="checkbox"/>	CS 1411 Programming Principles	COSC 1415	4	<input type="checkbox"/>	CS 1412 Programming Principles II	@ Tech	4	
<input type="checkbox"/>	ENGL 1301 Composition I	ENGL 1301	3	<input type="checkbox"/>	CS 1382 Discrete Compu. Structure	@ Tech	3	
<input type="checkbox"/>	MATH 1351 Calculus I	MATH 2413	3	<input type="checkbox"/>	MATH 1352 Calculus II	MATH 2414	3	
<input type="checkbox"/>	POLS 1301 American Govt., Organization	GOVT 2301	3	<input type="checkbox"/>	ENGL 1302 Composition II	ENGL 1302	3	
<input type="checkbox"/>	Visual and Performing Arts Elective**	ARTS 1303	3	<input type="checkbox"/>	Personal Fitness and Wellness*	PHED Activity	2	
			TOTAL	16			TOTAL	15

Second Year

Fall		SPC Course	Hrs	Spring		SPC Course	Hrs	
<input type="checkbox"/>	CS 2413 Data Structures	COSC 2415	4	<input type="checkbox"/>	CS 2350 Computer Org. Assem. Lang.	@ Tech	3	
<input type="checkbox"/>	ECE 2372 Modern Digital System Design	@ Tech	3	<input type="checkbox"/>	PHYS 2401 Physics II	PHYS 2426	4	
<input type="checkbox"/>	MATH 2350 Calculus III	MATH 2315	3	<input type="checkbox"/>	MATH 2360 Linear Algebra	MATH 2318	3	
<input type="checkbox"/>	PHYS 1408 Physics I	PHYS 2425	4	<input type="checkbox"/>	Elective (Natural Sciences)***	***	4	
<input type="checkbox"/>	POLS 2302 American Govt., Functions	GOVT 2302	3	<input type="checkbox"/>	ENGL 2311 Technical Writing	ENGL 2311	3	
			TOTAL	16			TOTAL	17

Third Year

Fall		SPC Course	Hrs	Spring		SPC Course	Hrs	
<input type="checkbox"/>	CS 3383 Theory of Automata	@ Tech	3	<input type="checkbox"/>	CS 3375 Computer Architecture	@ Tech	3	
<input type="checkbox"/>	CS 3361 Concepts of Prog. Lang	@ Tech	3	<input type="checkbox"/>	MATH 3360 Found. Of Algebra I	@ Tech	3	
<input type="checkbox"/>	MATH 3354 Differential Equations I	@ Tech	3	<input type="checkbox"/>	Foreign Language Elective	SPAN 1512	5	
<input type="checkbox"/>	Foreign Language Elective (Arts and Sciences req)	SPAN 1511	5	<input type="checkbox"/>	HIST 2300 American History to 1876	HIST 1301	3	
<input type="checkbox"/>	CS 3364 Des. & Analysis of Algorithms	@ Tech	3	<input type="checkbox"/>	COMS 3358 Bus & Prof Comm or ENGR 2331 Prof Comm. For Engrs.	SPCH 1321	3	
			TOTAL	17			TOTAL	17

Fourth Year

Fall		SPC Course	Hrs	Spring		SPC Course	Hrs	
<input type="checkbox"/>	CS 4354 Con. Database Systems	@ Tech	3	<input type="checkbox"/>	CS 3352 Intro Systems Program.	@ Tech	3	
<input type="checkbox"/>	MATH 3430 Computational Techniques	@ Tech	4	<input type="checkbox"/>	CS 3365 Software Engineering	@ Tech	3	
<input type="checkbox"/>	MATH 4342 Mathematical Statistics	@ Tech	3	<input type="checkbox"/>	MATH 4310 Intro Num Analysis I	@ Tech	3	
<input type="checkbox"/>	Foreign Language Elective	SPAN 2311	3	<input type="checkbox"/>	MATH 4343 Math. Stat.	@ Tech	3	
<input type="checkbox"/>	HIST 2301 American History after 1876	HIST 1302	3	<input type="checkbox"/>	Foreign Language Elective	SPAN 2312	3	
			TOTAL	16			TOTAL	15

Fifth Year

Fall		SPC Course	Hrs	Spring		SPC Course	Hrs
<input type="checkbox"/>	Elective (CS)	@ Tech	3	<input type="checkbox"/>	CS 4311 Sr. Proj Design	@ Tech	3
<input type="checkbox"/>	Elective (CS)	@ Tech	3	<input type="checkbox"/>	CS 4352 Operating Systems	@ Tech	3
<input type="checkbox"/>	MATH 4350 Advanced Calculus	@ Tech	3	<input type="checkbox"/>	MATH 4312 Intro Num Analysis II	@ Tech	3
<input type="checkbox"/>	MATH 4354 Differential Equations II	@ Tech	3	<input type="checkbox"/>	English Literature	Any ENGL lit.	3
<input type="checkbox"/>	Behavioral Science Elective**	SOCI 1301	3			TOTAL	15
			TOTAL	15			

Substitution Options:

* Choose from personal fitness and wellness requirements for the college of Arts and Sciences

** Other classes available for these requirements, recommended classes meet Multicultural Requirement for

*** Any BIOL, GEOL, or CHEM

TTU Advisor Contact:

Dr. Richard Watson
806.742.3527 phone
richard.watson@ttu.edu
<http://www.depts.ttu.edu/coe/>

SPC Advisor Contact:

Courses of "D" are unlikely to transfer to this major. Students are required to maintain a GPA of 2.75 or higher to take upper division business coursework.

Transfer Check Sheets are intended as an advising tool and starting point for transfer research. Other options such as substitutions or specializations are not listed. We highly recommend working with an advisor (contact information listed above) and using the research resources available to you to fill the gaps and double check the information provided. Degree requirements are subject to change at any time.

Notes: