



# COMPUTER SCIENCE CAREER PATHWAY MAP

✓	RECOMMENDED COURSE SEQUENCE+	SEMESTERS OFFERED	CREDIT HOURS
<input type="checkbox"/>	<b>1. COSC 1436 Programming Fundamentals I</b>	F, Sp, Su	4
<input type="checkbox"/>	2. <i>ENGL 1301 Composition I</i>	F, Sp, Su	3
<input type="checkbox"/>	3. <i>HIST 1301 United States History I</i>	F, Sp, Su	3
<input type="checkbox"/>	<b>4. MUSI 1306 Music Appreciation</b>	F, Sp, Su	3
<input type="checkbox"/>	<b>5. PHIL 1301 Introduction to Philosophy</b>	F, Sp, Su	3
			<i>16 hours</i>
<input type="checkbox"/>	<b>6. COSC 1437 Programming Fundamentals II</b>	F, Sp, Su	4
<input type="checkbox"/>	7. <i>ENGL 1302 Composition II*</i>	F, Sp, Su	3
<input type="checkbox"/>	8. <i>HIST 1302 United States History II</i>	F, Sp, Su	3
<input type="checkbox"/>	<b>9. MATH 2413 Calculus I</b>	F, Sp, Su	4
			<i>30 hours</i>
<input type="checkbox"/>	<b>10. COSC 2436 Program Fundamentals III</b>	F	4
<input type="checkbox"/>	11. <i>GOVT 2305 Federal Government</i>	F, Sp, Su	3
<input type="checkbox"/>	<b>12. MATH 2414 Calculus II</b>	F, Sp	4
<input type="checkbox"/>	<b>13. PHYS 2425 University Physics I</b>	F, Sp, Su	4
			<i>45 hours</i>
<input type="checkbox"/>	<b>14. COSC 2325 Computer Organization</b>	Sp	3
<input type="checkbox"/>	15. <i>GOVT 2306 Texas Government</i>	F, Sp, Su	3
<input type="checkbox"/>	<b>16. MATH 2305 Discrete Mathematics</b>	Sp	3
<input type="checkbox"/>	<b>17. PHYS 2426 University Physics II</b>	F, Sp, Su	4
<input type="checkbox"/>	18. <i>PSYC 2301 General Psychology*</i>	F, Sp, Su	3
	*** COMPUTER SCIENCE FIELD OF STUDY COMPLETED *** NOTE: Additional core curriculum courses you may take are listed below – check with your transfer institution.		<i>61 hours</i>

## READ ALL NOTES CAREFULLY:

- \* Refer to Core Curriculum and KC Catalog for all possible course options.
- \*\* MATH 2412 Pre-Calculus is not part of the Computer Science Field of Study, but is a prerequisite to MATH 2413 Calculus I.
- + Computer Competency Requirement must be met in order to earn an AA Degree. [Click Here For Computer Competency Information](#)
- a) Courses in **bold** have a pre-requisite (previous course required).
- b) Courses in *italics* can be taken in any order.
- c) ENGL 1301 and the first MATH class may require a co-requisite and/or developmental course depending on TSI Scores.
- d) Refer to KC Catalog for Field of Study and AS Degree Requirements.

## CAREER OPPORTUNITIES

Computer Engineer  
Computer Programmer  
Game Developer  
Software Engineer

## ADVANCED DEGREE/CREDENTIAL OPPORTUNITIES

B.S. in Computer Science  
B.S. in Software Engineering  
B.S. in Computer Engineering  
Industry certifications in programming languages

## LINKS TO COLLEGES AND PROFESSIONAL ORGANIZATIONS:

Association for Computing Machinery (ACM) <http://www.acm.org/>  
IEEE Computer Society <https://www.computer.org/>

## CONTACT INFORMATION

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