

# CS BA 04-05

## Requirements for the Bachelor of Arts Degree in Computer Science

Lower Division Requirements		Upper Division Requirements		Electives (minimum 4 units)	
Computer Science 132 <sup>(2)</sup> __	Intro to Computer Science	Computer Science 314 <sup>(4)</sup> __	Operating Systems	CSC334 <sup>(4)</sup> __	MTH232 <sup>(2)</sup> __
Computer Science 142 <sup>(2)</sup> __	Intro to Computer Programming	Computer Science 324 <sup>(4)</sup> __	Software Engineering	CSC374 <sup>(4)</sup> __	MTH274 <sup>(4)</sup> __
Computer Science 154 <sup>(4)</sup> __	Fundamentals of Computer Science	Computer Science 354 <sup>(4)</sup> __	Algorithm Analysis and Theory of Computation	CSC414 <sup>(4)</sup> __	MTH312 <sup>(2)</sup> __
Computer Science 254 <sup>(4)</sup> __	Data Structures and Algorithms	Computer Science 394 <sup>(4)</sup> __	Program Languages	CSC491 <sup>(1-4)</sup> __	MTH334 <sup>(4)</sup> __
Mathematics 164 <sup>(4)</sup> __	Calculus I*	Computer Science 454 <sup>(4)</sup> __	Computer Architecture and Assembly Language	CSC494 <sup>(4)</sup> __	MTH372 <sup>(2)</sup> __
Mathematics 174 <sup>(4)</sup> __	Calculus II*	Computer Science 481 <sup>(1)</sup> __	Senior Seminar in Comp. Science	ISS413 <sup>(3)</sup> __	*at most one of
		Mathematics 344 <sup>(4)</sup> __	Discrete Mathematics	ISS422 <sup>(2)</sup> __	*MTH203 <sup>(3)</sup>
				ISS472 <sup>(2)</sup> __	*MTH364 <sup>(4)</sup>
* MTH 144 and MTH 131 may substitute for the sequence MTH 164 and MTH 174				HON498 <sup>(2)</sup> __	
				HON499 <sup>(1)</sup> __	

### I. Responding to the Sacred

Biblical Foundations Bible 101<sup>(2)</sup> \_\_ and Bible 102<sup>(3)</sup> \_\_

The Christian Tradition Church History 395<sup>(3)</sup> \_\_ or Theology 306<sup>(3)</sup> \_\_

### II. Developing Cognitive Abilities

Personal Development Psychology 101<sup>(4)</sup> (FF) \_\_ or Psychology 103<sup>(3)</sup> \_\_

Critical Thinking and Communication Writing 110<sup>(5)</sup> \_\_ and Communication 100<sup>(3)</sup> \_\_  
or Writing 120<sup>(3)</sup> \_\_

Basic Competence Writing Sample \_\_ Writing 099 \_\_

Problem Solving Mathematics 303<sup>(3)</sup> \_\_ or Mathematics 144<sup>(4)</sup> \_\_  
Mathematics 164<sup>(4)</sup> \_\_

Basic Competence Placement Test \_\_ Math 099 \_\_  
SAT 35th %ile \_\_ ACT 35th %ile \_\_

### III. Exploring an Interdependent World

The Natural World Biological Science<sup>(4)</sup> \_\_ and Physical Science<sup>(4-5)</sup> \_\_  
One with lab \_\_

Physical Fitness and Nutrition PED (One of Physical Education 102-184)  
Take one of the following: Family & Consumer Sci. 315<sup>(3)</sup> \_\_  
Physical Education 100<sup>(1)</sup> \_\_ Physical Education 300<sup>(2)</sup> \_\_

The Social World Take one of the following: Sociology 101<sup>(3)</sup> \_\_  
Economics 101<sup>(3)</sup> \_\_ Sociology 201<sup>(3)</sup> \_\_  
Economics 102<sup>(3)</sup> \_\_ Political Science 101<sup>(3)</sup> \_\_  
Political Science 190<sup>(4)</sup> \_\_

### IV. Seeking Cultural Perspectives

The History of World Civilizations History 110<sup>(3)</sup> \_\_ and History 111<sup>(3)</sup> \_\_

The Fine Arts Take two of the following areas: Music History 100<sup>(2)</sup> \_\_ Art 100<sup>(2)</sup> \_\_  
or Music History 101<sup>(2)</sup> \_\_ or Art 102<sup>(3)</sup> \_\_  
or Music History 321<sup>(4)</sup> & 322<sup>(4)</sup> \_\_ Theater 101<sup>(2)</sup> \_\_  
(MUH, ART, TRE)

Philosophy Philosophy 201<sup>(3)</sup> \_\_ or Philosophy 211<sup>(3)</sup> \_\_

Literature Masterpieces: Take two courses, at least one from masterpieces.  
Literature 254<sup>(3)</sup> \_\_ Literature 201<sup>(3)</sup> \_\_  
Literature 255<sup>(3)</sup> \_\_ Literature 202<sup>(3)</sup> \_\_  
Literature 356<sup>(3)</sup> \_\_ Literature 203<sup>(3)</sup> \_\_  
Literature 357<sup>(3)</sup> \_\_

Great Works: Literature 205<sup>(2)</sup> \_\_ Literature 207<sup>(2)</sup> \_\_  
Literature 206<sup>(2)</sup> \_\_ Literature 208<sup>(2)</sup> \_\_

Foreign Language Take one of the following sequences:  
Spanish 101<sup>(4)</sup> \_\_ and Spanish 102<sup>(4)</sup> \_\_  
German 101<sup>(4)</sup> \_\_ and German 102<sup>(4)</sup> \_\_  
French 101<sup>(4)</sup> \_\_ and French 102<sup>(4)</sup> \_\_  
Biblical Lang. 205<sup>(4)</sup> \_\_ and Biblical Lang. 206<sup>(4)</sup> \_\_  
or  
Biblical Lang. 207<sup>(3)</sup> \_\_ and Biblical Lang. 208<sup>(3)</sup> \_\_  
and Biblical Lang. 337<sup>(3)</sup> \_\_