

CS BS 04-05

Requirements for the Bachelor of Science Degree in Computer Science

Lower Division Requirements		Upper Division Requirements		Electives (minimum 14 units)	
Computer Science 132 ⁽²⁾ __	Intro to Computer Science	Computer Science 314 ⁽⁴⁾ __	Operating Systems	CSC334 ⁽⁴⁾ __	MTH232 ⁽²⁾ __
Computer Science 142 ⁽²⁾ __	Intro to Computer Programming	Computer Science 324 ⁽⁴⁾ __	Software Engineering	CSC374 ⁽⁴⁾ __	MTH274 ⁽⁴⁾ __
Computer Science 154 ⁽⁴⁾ __	Fundamentals of Computer Science	Computer Science 354 ⁽⁴⁾ __	Algorithm Analysis and Theory of Computation	CSC414 ⁽⁴⁾ __	MTH312 ⁽²⁾ __
Computer Science 254 ⁽⁴⁾ __	Data Structures and Algorithms	Computer Science 394 ⁽⁴⁾ __	Program Languages	CSC491 ⁽¹⁻⁴⁾ __	MTH334 ⁽⁴⁾ __
Mathematics 164 ⁽⁴⁾ __	Calculus I	Computer Science 454 ⁽⁴⁾ __	Computer Architecture and Assembly Language		MTH372 ⁽²⁾ __
Mathematics 174 ⁽⁴⁾ __	Calculus II	Computer Science 481 ⁽¹⁾ __	Senior Seminar in Comp. Science	ISS413 ⁽³⁾ __	
		Computer Science 494 ⁽⁴⁾ __	Senior Software Project	ISS422 ⁽²⁾ __	*at most one of
		Mathematics 344 ⁽⁴⁾ __	Discrete Mathematics	ISS472 ⁽²⁾ __	*MTH203 ⁽³⁾
					*MTH364 ⁽⁴⁾
				HON498 ⁽²⁾ __	
				HON499 ⁽¹⁾ __	

I. Responding to the Sacred

Biblical Foundations Bible 101⁽²⁾ __ and Bible 102⁽³⁾ __

The Christian Tradition Church History 395⁽³⁾ __ or Theology 306⁽³⁾ __

II. Developing Cognitive Abilities

Personal Development Psychology 101⁽⁴⁾ (FF) __ or Psychology 103⁽³⁾ __

Critical Thinking and Communication Writing 110⁽⁵⁾ __ and Communication 100⁽³⁾ __
or Writing 120⁽³⁾ __

Basic Competence Writing Sample __ Writing 099 __

Problem Solving Mathematics 303⁽³⁾ __ or Mathematics 144⁽⁴⁾ __
Mathematics 164⁽⁴⁾ __

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

III. Exploring an Interdependent World

The Natural World Biological Science⁽⁴⁾ __ and Physical Science⁽⁴⁻⁵⁾ __
One with lab __

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

The Social World Take one of the following: Sociology 101⁽³⁾ __
Economics 101⁽³⁾ __ Sociology 201⁽³⁾ __
Economics 102⁽³⁾ __ Political Science 101⁽³⁾ __
Political Science 190⁽⁴⁾ __

IV. Seeking Cultural Perspectives

The History of World Civilizations History 110⁽³⁾ __ and History 111⁽³⁾ __

The Fine Arts Take **two** of the following areas: (MUH, ART, TRE)
Music History 100⁽²⁾ __ Art 100⁽²⁾ __
or Music History 101⁽²⁾ __ or Art 102⁽³⁾ __
or Music History 321⁽⁴⁾ & 322⁽⁴⁾ __ Theater 101⁽²⁾ __

Philosophy Philosophy 201⁽³⁾ __ or Philosophy 211⁽³⁾ __

Literature Masterpieces: Take two courses, at least one from masterpieces.
Literature 254⁽³⁾ __ Literature 201⁽³⁾ __
Literature 255⁽³⁾ __ Literature 202⁽³⁾ __
Literature 356⁽³⁾ __ Literature 203⁽³⁾ __
Literature 357⁽³⁾ __

Great Works: Literature 205⁽²⁾ __ Literature 207⁽²⁾ __
Literature 206⁽²⁾ __ Literature 208⁽²⁾ __

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