

Requirements for the Bachelor of Arts Degree in Computer Science

Lower Division Requirements

Computer Science 132 ⁽²⁾ __	Intro to Computer Science
Computer Science 142 ⁽²⁾ __	Intro to Computer Programming
Computer Science 154 ⁽⁴⁾ __	Fundamentals of Computer Science
Computer Science 254 ⁽⁴⁾ __	Data Structures and Algorithms
Mathematics 164 ⁽⁴⁾ __	Calculus I*
Mathematics 174 ⁽⁴⁾ __	Calculus II*

*MTH144 and MTH131 may substitute for the sequence MTH164 and MTH174

Upper Division Requirements

Computer Science 314 ⁽⁴⁾ __	Operating Systems
Computer Science 324 ⁽⁴⁾ __	Software Engineering
Computer Science 354 ⁽⁴⁾ __	Design and Analysis of Algorithms
Computer Science 394 ⁽⁴⁾ __	Programming Languages
Computer Science 454 ⁽⁴⁾ __	Computer Architecture and Assembly Lang.
Computer Science 481 ⁽¹⁾ __	Senior Seminar in Computer Science
Mathematics 344 ⁽⁴⁾ __	Discrete Mathematics

Choose one group from:	Comp Science 496 ⁽²⁾ and 497 ⁽¹⁾ __	Service Learning I and II
	Comp Science 498 ⁽²⁾ and 499 ⁽¹⁾ __	Independent Research I & II
	Information Systems 472 ⁽²⁾ __	Internship
	Honors 498 ⁽²⁾ and 499 ⁽¹⁾ __	Honors Project I and II

Electives - min 2 unit.

(3 units if ISS472 chosen from group)

CSC412 ⁽²⁾ __	ISS414 ⁽⁴⁾ __
CSC422 ⁽²⁾ __	ISS424 ⁽⁴⁾ __
CSC491 ⁽¹⁻⁴⁾ __	ISS472 ⁽²⁾ __
CSC494 ⁽⁴⁾ __	MTH232 ⁽²⁾ __
CSC496 ⁽²⁾ __	MTH274 ⁽⁴⁾ __
CSC497 ⁽¹⁾ __	MTH312 ⁽²⁾ __
CSC498 ⁽²⁾ __	MTH334 ⁽⁴⁾ __
CSC499 ⁽¹⁾ __	MTH392 ⁽²⁾ __
HON498 ⁽²⁾ __	*MTH203 ⁽³⁾ __
HON499 ⁽¹⁾ __	*MTH382 ⁽²⁾ __

*at most one of

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⁾ __
Church History 484⁽³⁾ and 485⁽³⁾

II. Developing Cognitive Abilities

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

Critical Thinking and Communication Writing 110⁽³⁾ __ and Communication 100⁽³⁾ __
or Writing 120⁽³⁾ __ or Communication 231⁽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 211⁽²⁾ __
Physical Education 300⁽²⁾ __ Physical Education 212⁽²⁾ __
Physical Education 213⁽²⁾ __

The Social World Take one of the following: Economics 101⁽³⁾ __
Sociology 101⁽³⁾ __ Economics 102⁽³⁾ __
Sociology 103⁽³⁾ __ Political Science 101⁽³⁾ __
Sociology 201⁽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⁾ __
Music History 101⁽²⁾ __ Art 102⁽³⁾ __
Theatre 101⁽²⁾ __ Art 200⁽³⁾ __
Art 201⁽³⁾ __

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

Literature Take two courses, at least one from masterpieces.

Masterpieces: Literature 201⁽³⁾ __ Literature 202⁽³⁾ __
Literature 203⁽³⁾ __

Great Works: Literature 205⁽²⁾ __ Literature 208⁽²⁾ __
Literature 206⁽²⁾ __ Literature 325⁽³⁾ __
Literature 207⁽²⁾ __ Literature 460⁽³⁾ __

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⁾ __