

## Requirements for the Bachelor of Science Degree in Computer Information Systems

<p>Lower Division Requirements:</p> <p>Computer Science 132<sup>(2)</sup> __                  Computer Science 142<sup>(2)</sup> __                  Computer Science 154<sup>(4)</sup> __                  Computer Science 254<sup>(4)</sup> __                  Information Systems 232<sup>(2)</sup> __                  Information Systems 242<sup>(2)</sup> __                  Mathematics 164<sup>(4)</sup> __                  Mathematics 203<sup>(3)</sup> __                  Business 212<sup>(4)</sup> __                  Economics 102<sup>(3)</sup> __</p> <p>Intro to Computer Science                  Intro to Computer Programming                  Fundamentals of Computer Science                  Data Structures and Algorithms                  Introduction to Computer Info Systems                  Visual Programming for Business Apps                  Calculus I                  Intro to Statistics                  Principles of Management                  Economics II (Microeconomics)</p>	<p>Upper Division Requirements:</p> <p>Computer Science 314<sup>(4)</sup> __                  Computer Science 373<sup>(3)</sup> __                  Information Systems 324<sup>(4)</sup> __                  Information Systems 381<sup>(1)</sup> __                  Information Systems 414<sup>(4)</sup> __                  Information Systems 424<sup>(4)</sup> __                  Information Systems 481<sup>(1)</sup> __</p> <p>Operating Systems                  Computer Networking                  Software Engineering                  Telecommunications                  Database Management Systems                  Internet Applications Development                  Senior Seminar in Information Systems</p> <p>Choose <b>one group</b> from:                  Information Sys 496<sup>(2)</sup> and 497<sup>(1)</sup> __ Service Learning I and II                  Information Sys 498<sup>(2)</sup> and 499<sup>(1)</sup> __ Independent Research I and II                  Information Sys 472<sup>(2)</sup> __ Internship                  Honors 498<sup>(2)</sup> and 499<sup>(1)</sup> __ Honors Project I and II</p>	<p>Electives - <b>min 7 units.</b>                  (8 units if ISS472 chosen from group selection)</p> <p>ACC201<sup>(4)</sup> __                  BUS213<sup>(4)</sup> __                  BUS301<sup>(4)</sup> __                  BUS302<sup>(4)</sup> __                  BUS374<sup>(4)</sup> __                  CSC412<sup>(2)</sup> __                  CSC494<sup>(4)</sup> __                  ISS472<sup>(2)</sup> __                  ISS496<sup>(2)</sup> __                  ISS497<sup>(1)</sup> __                  ISS498<sup>(2)</sup> __                  ISS499<sup>(1)</sup> __                  HON498<sup>(2)</sup> __                  HON499<sup>(1)</sup> __</p>
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<b>I. Responding to the Sacred</b>		
Biblical Foundations	Bible 101 <sup>(2)</sup> __	and Bible 102 <sup>(3)</sup> __
The Christian Tradition	Church History 395 <sup>(3)</sup> __ Church History 484 <sup>(3)</sup> and 485 <sup>(3)</sup>	or Theology 306 <sup>(3)</sup> __
<b>II. Developing Cognitive Abilities</b>		
Personal Development	Psychology 101 <sup>(4)</sup> (FF) __	or Psychology 103 <sup>(3)</sup> __
Critical Thinking and Communication	Writing 110 <sup>(5)</sup> __ or Writing 120 <sup>(3)</sup> __	and Communication 100 <sup>(3)</sup> __ or Communication 231 <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 __ SAT 35th %ile __	Math 099 __ ACT 35th %ile __
<b>III. Exploring an Interdependent World</b>		
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: Physical Education 100 <sup>(1)</sup> __ Physical Education 300 <sup>(2)</sup> __	
The Social World	Take one of the following: Economics 101 <sup>(3)</sup> __ Economics 102 <sup>(3)</sup> __	Sociology 101 <sup>(3)</sup> __ Sociology 103 <sup>(3)</sup> __ Sociology 201 <sup>(3)</sup> __ Political Science 101 <sup>(3)</sup> __ Political Science 190 <sup>(4)</sup> __

<b>IV. Seeking Cultural Perspectives</b>		
The History of World Civilizations	History 110 <sup>(3)</sup> __	and History 111 <sup>(3)</sup> __
The Fine Arts Take <b>two</b> of the following areas: (MUH, ART, TRE)	Music History 100 <sup>(2)</sup> __ Music History 101 <sup>(2)</sup> __ Theater 101 <sup>(2)</sup> __	Art 100 <sup>(2)</sup> __ Art 102 <sup>(3)</sup> __ Art 200 <sup>(3)</sup> __ Art 201 <sup>(3)</sup> __
Philosophy	Philosophy 201 <sup>(3)</sup> __	or Philosophy 211 <sup>(3)</sup> __
Literature	Take two courses, at least one from masterpieces.	
Masterpieces:	Literature 201 <sup>(3)</sup> __ Literature 202 <sup>(3)</sup> __	Literature 203 <sup>(3)</sup> __
Great Works:	Literature 205 <sup>(2)</sup> __ Literature 206 <sup>(2)</sup> __ Literature 207 <sup>(2)</sup> __	Literature 208 <sup>(2)</sup> __ Literature 325 <sup>(3)</sup> __ Literature 460 <sup>(3)</sup> __
Foreign Language	Take one of the following sequences:	
	Spanish 101 <sup>(4)</sup> __ German 101 <sup>(4)</sup> __	and Spanish 102 <sup>(4)</sup> __ 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> __