**BACHELOR OF ARTS IN COMPUTER SCIENCE (BACS) CURRICULUM**

CIS339 Microsoft Outlook – Comprehensive Course 3 CS102 Internet, HTML and Web Design 3

**Mathematics/ Statistics (21 Credits)** BMAT101 College Algebra 3

BMAT102 Calculus 3

BMAT204 Probability 3

MATH221 Discrete Mathematics 4

MATH222 Applied Calculus I 4

MATH223 Applied Calculus II 4

MATH224 Linear Algebra 3

**Science (6 credits)**

SCI101 Chemistry 3

SCI102 Biology 3

SCI103 Physics 3

SCI104 Bible and Science\* 3

**Computer Science Core Courses (33 credits)**

CIST101 Introduction to Business Computing 3

CS100 Computer Ethics and Social Issues 3

CS101 Introduction to Computer Science & Object-

Oriented Programming 3

CS102 Internet, HTML and Web Design 3

CS121 Object-Oriented Programming I 4

CS122 Object-Oriented Programming II 4

CS221 Computer Networking 3

CS222 Database Design & Application Development 3 CS495 Senior Project 4

CS499 Internship 3

(Continue)

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**Writing and Communication (6 credits)**

LAN101/102 Spanish I/II 3

LAN131/132 Chinese I/II 3

ENGL103/104 Theological English I/II\* 6

**Fine Art/Humanities (12 credits)**

BS101 A Survey of the Bible\* 3

BT100 Christian Worldview\* 3

ART120 Western Art History 3

ART121 Theories of Design & Color 3

HIS140 History of America 3

HUM103 Introduction to Christian Ethics\* 3

HUM104 Religions of the World\* 3

MUS105 Fundamentals of Music 3

MUS100 Music Appreciation 3

MUS351 Music & Worship\* 3

MUS106 University Chorus 3

**Behavioral/Social Sciences (15 credits)**

ECON101 Fundamental Economics 3

ECON201 Introduction to Microeconomics 3

BCOM101 Business Communication I 3

SOC102 Marriage and Family 3

SOC103 Race and Ethnic Relations 3

SOC110 Introduction to Sociology 3

SOC146 Christianity and Economic Thoughts\* 3

PSY130 Introduction to Psychology 3

PSY106 Psychology of religious Experience\* 3

CIS230 Microsoft Excel 3

CIS232 Microsoft Access 3

CIS235 QuickBooks 3

CS221 Computer Networking 3

CIS231 Advanced Excel with Visual Basic for Applications 3

CIS371 Microsoft Word I 3

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**Elective Courses (21 credits)**

CS331 Computer Architecture/Organization I 3 CS410 Operating Systems and File Organization 3 CS440 Software Engineering 3

CS330 Systems Analysis & Design 3

CS431 Computer Architecture/Organization II 3 CS445 Digital Communication / Design 3

CS420 Programming Languages 3

CS446 Numerical computation 3

CS447 Data communication 3

CS448 Computer graphics 3

CS453 Artificial intelligence 3

CS454 Human-computer interaction 3

CS455 Information Theory 3

CS456 Software testing 3

CS457 Information assurance 3

CS458 Internship 3

CS560 Database Concepts and Applications 3

CS580 Internet Programming 3

CS581, JavaScript and Dynamic HTML 3

CS584 Programming with XML 3

CS586 Android Development 3

CS653 iOS Development with Objective-C 3

CS653 iOS Mobile App Development 3

CS653 iOS Advanced Mobile App Development 3