

BACHELOR OF ARTS IN COMPUTER SCIENCE (BACS) CURRICULUM

Writing and Communication (6 credits)

ENGL101/102 English I/II 3

Bible and Theology (30 credits)

BS101 A Survey of the Bible 3
BS230 Interpretation of the Bible 3
OT200 Introduction of the Old Testament 3
NT200 Introduction of the new Testament 3
BT100 Christian Worldview 3
BT101 Jesus Christ in Global Society 3
NT310 The Parables of Jesus 3
OT206 Wisdom Literature 3
TH200 Systematic Theology 3
PT210 Foundations of the Church 3

Foreign Languages (3 credits)

LAN101/102 Spanish I/II 3
LAN 103/104 Chinese I/II 3

Fine Art/Humanities (3 credits)

ART120 Western Art History 3
HIS140 History of America 3
MUS100 Music Appreciation 3

Behavioral/Social Sciences (6 credits)

ECON101 Fundamental Economics 3
BCOM101 Business Communication I 3
SOC102 Marriage and Family 3
SOC110 Introduction to Sociology 3
PSY130 Introduction to Psychology 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

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 (3 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

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

Institutional Requirement (Chapel)

WS305 Institutional Requirement (P) Every Semester

Total: 126 credits