



**BUSINESS INFORMATION TECHNOLOGY MAJOR  
MAJOR OPTION I: COMPUTER-BASED DECISION  
SUPPORT SYSTEMS (DSS)**

Department of Business Information Technology

Bachelor of Science in Business

For students graduating in calendar year **2013**

<u>FRESHMAN YEAR</u> (30 Semester Hours Required)	F	SP
ACIS 1504 Introduction to Business Information Systems <sup>1</sup>	3 _____	
ENGL 1105-1106 Freshman English or COMM 1015-1016 Communication Skills	3 _____	3 _____
MATH 1525-1526 Elementary Calculus with Matrices <sup>1,5</sup> (Area 5)	3 _____	3 _____
Area 4: Scientific Reasoning and Discovery	3 _____	3 _____
PSYC 2004 <b>OR</b> SOC 1004 Introductory Psychology or Sociology	3 _____	
Social Science Course <sup>2</sup>		3 _____
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<u>SOPHOMORE YEAR</u> (33 Semester Hours Required)	F	SP
ACIS 2115-2116 Principles of Accounting <sup>1</sup>	3 _____	3 _____
BIT 2405-2406 Quantitative Methods <sup>1</sup>	3 _____	3 _____
ECON 2005-2006 Principles of Economics <sup>1</sup>	3 _____	3 _____
Area 2: Ideas, Cultural Traditions and Values	3 _____	3 _____
COMM 2004 Public Speaking <sup>3</sup> or if COMM 1015-6 completed, then Non-Business Free Elective	3 _____	
CS 1054 Intro to Programming in JAVA	3 _____	
Free Elective		3 _____

**PRIOR TO PROCEEDING WITH YOUR JUNIOR LEVEL COURSEWORK YOU MUST  
COMPLETE THE UPPER DIVISION REQUIREMENTS AS NOTED IN FOOTNOTE 1.**

<u>JUNIOR YEAR</u> (32 Semester Hours Required)	F	SP
# BIT 3424 Computer Modeling & Decision Analysis	3 _____	
# BIT 3444 Advanced Business Computing and Applications		3 _____
# BIT 3414 Operations and Supply Chain Management	3 _____	
# MGT 3304 Management Theory & Leadership Practice	3 _____	
# MKTG 3104 Marketing Management	3 _____	
# FIN 3104 Introduction to Finance	3 _____	
# FIN 3055 Legal Environment of Business		3 _____
# BIT 3434 Advanced Management Science		3 _____
# BIT Option Courses (as indicated on the next page)		6 _____
Free Elective (at least one hour of which must be an area 6 course) <sup>4</sup>	2 _____	

<u>SENIOR YEAR</u> (30 Semester Hours Required)	F	SP
# BIT 4484 Project Management	3 _____	
# BIT Option Courses (as indicated on the next page)	6 _____	3 _____
# MGT 4394 Business Policy and Strategy		3 _____
# BIT Elective <sup>6</sup>		3 _____
Free Electives (three hours of which must be in area 7 if this requirement has not been fulfilled elsewhere) <sup>4</sup>	6 _____	6 _____

## COMPUTER BASED DSS Option Courses

- # BIT 4444 Web-Based Decision Support Systems
- # BIT 4454 Business Analysis Seminar in IT
- # BIT 4514 Database Technology for Business
- # BIT 4524 Systems Development
- # BIT 4554 Networks and Telecommunications in Business

## GENERAL INFORMATION

This checksheet applies to students completing their degrees in calendar year 2013 in the terms ending May, June, August, or December. A total of 125 semester hours is required for graduation. At least 50% of the curriculum should be taken in general education courses (all courses outside the Pamplin College of Business plus BIT 2405-6, HTM 2454, HTM 3414, HTM 3464, and HTM 3484. All economics courses are outside the college.) To meet this criteria **students in the DSS option (I) must take 12 semester hours of the 17 semester hours free electives outside the departments of ACIS, BIT, FIN, HTM, MGT, and MKTG.** Any exceptions to this curriculum must be approved by the student's Department Head and the Pamplin College of Business Associate Dean for Undergraduate Programs.

Transferring courses: At least 50% of all Business credits taken in ACIS, BIT, FIN, HTM, MGT, or MKTG required for the degree must be taken at Virginia Tech. Additional requirements and procedures for transferring courses are available in the University Catalog and the Pamplin College of Business form, "Authorization to Take Courses Elsewhere."

In-Major GPA: The GPA for the Business Information Technology major includes all College of Business junior and senior core courses, and all courses listed for the options. These courses are indicated above with a #.

Language Requirement: See "Entrance Requirements," University Catalog. College-level foreign language credit used to meet this requirement may not be used to satisfy the minimum number of credits required by the degree.

Satisfactory Progress: BIT is a restricted major. In order to enter the major, students must have completed ACIS 1504, ECON 2005, MATH 1525, and MATH 1526 with a minimum GPA of 2.5. Students must have a minimum 2.5 GPA in all ACIS, ECON, and BIT lower division courses. Students must have completed CS 1054 or CS 1705. Students must have completed one complete semester in ACIS, ECON, FIN, MGT or MKTG if previously transferred into these majors. Applicants must have a minimum 2.0 GPA overall and are considered on a competitive GPA and space available basis. Once admitted to the major, students having attempted 72 semester hours (including transfer, advanced placement, advanced standing, credit by examination, and course withdrawal hours) must maintain an overall GPA of 2.0 or better and an in-major GPA of 2.0 or better (in-major credits are indicated by the # on the departmental checksheet). Any student whose GPA falls below this standard will have one semester to regain an overall and in-major GPA of 2.0 or better. Failing to achieve this standard for any two semesters will result in the student being asked to leave the major and having his/her registration blocked until he/she files a change of major.

## FOOTNOTES

- <sup>1</sup> Prior to enrolling in junior business courses, students must have earned at least 60 semester hours; have a GPA of 2.0 or better in the combined series in MATH, ACIS, BIT, and ECON courses with no grade lower than a C- in any of these courses; and have a cumulative GPA of 2.0 or better for all coursework. To graduate, students must have an overall GPA of at least 2.0 and an in-major GPA of at least 2.0.
- <sup>2</sup> Social science courses should be selected from any courses in Economics (beyond Principles), Geography, History (except 1024, 1025, 1026, or 2054), International Studies, Political Science (except 3015-3016), Psychology, and Sociology; or any course approved for Area 3 of the Curriculum for Liberal Education.
- <sup>3</sup> COMM 2004 Public Speaking is required for all Business majors who did not take COMM 1015-1016. It may be completed in the sophomore, junior or senior year.
- <sup>4</sup> Free electives must include at least one hour from the Curriculum for Liberal Education Area 6: Creativity and Aesthetic Experience. The Curriculum for Liberal Education Area 7: Critical Issues in A Global Context, may be used to meet another requirement or taken as a free elective.
- <sup>5</sup> Equivalent Math courses may be substituted. Completes the Curriculum for Liberal Education requirement in Area 5: Quantitative and Symbolic Reasoning.
- <sup>6</sup> Depending on the student's emphasis and as long as the prerequisites are met, courses that will satisfy the BIT elective requirement include:

### Option Electives

- |   |   |
|---|---|
| BIT 3454 Quality & Process Improvement Methods        | BIT 4574 Advanced Networking for Business             |
| BIT 3464 Enterprise Planning & Control Systems        | BIT 4584 Client/Server App Development for Business   |
| BIT 4434 Computer Simulation in Business              | BIT 4564 Object-Oriented Systems Development for Bus  |
| BIT 4464 Advanced Supply Chain Management             | BIT 4544 Artificial Intelligence for Decision Support |
| BIT 4474 Global Operations & Information Technology   |   |
| BIT 4534 Visual Interface Design for Decision Support |   |
| BIT 4594 Electronic Commerce Systems                  |   |
| BIT 4614 Information Security                         |   |

(October 2010)