# Bachelor of Science in Information Technology

## Data Networking and Security Cognate

### 2014-2015 Degree Completion Plan

**Important:** This degree plan is effective for those starting this degree program in fall 2014 through summer 2015. This degree plan will remain in effect for students who do not break enrollment or who do not change degree programs, concentrations or cognates. Please refer to the list of approved general education electives at www.luonline.com/generaleducation before enrolling in core competency requirements and skills & knowledge electives.

### CORE COMPETENCY REQUIREMENTS (36 hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Hrs</th>
<th>Sem</th>
<th>Grade</th>
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</thead>
<tbody>
<tr>
<td>Communication (6 hours)</td>
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<tr>
<td>Communications Elective</td>
<td>3</td>
<td>3</td>
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</tr>
<tr>
<td>ENGL 101 Composition &amp; Rhetoric</td>
<td>3</td>
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**Math, Science & Technology (9 hours)**

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<thead>
<tr>
<th>Course</th>
<th>Hrs</th>
<th>Sem</th>
<th>Grade</th>
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</thead>
<tbody>
<tr>
<td>INFT 101 Instructional Tech. for Online Learning</td>
<td>3</td>
<td>3</td>
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<tr>
<td>MATH 201 Introduction to Probability &amp; Statistics</td>
<td>3</td>
<td>3</td>
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<tr>
<td>Natural Science Elective</td>
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**Information Literacy (6 hours)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Hrs</th>
<th>Sem</th>
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<tbody>
<tr>
<td>ENGL 102 Composition &amp; Literature</td>
<td>3</td>
<td>3</td>
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<tr>
<td>History Elective</td>
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**Critical Thinking (6 hours)**

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<thead>
<tr>
<th>Course</th>
<th>Hrs</th>
<th>Sem</th>
<th>Grade</th>
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<tbody>
<tr>
<td>PHIL 201 Philosophy &amp; Contemporary Ideas</td>
<td>3</td>
<td>3</td>
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<tr>
<td>Biblical Worldview (9 hours)</td>
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<tr>
<td>APOL 104 Contemporary Worldviews</td>
<td>3</td>
<td>3</td>
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<tr>
<td>BIBL 104 Survey of Biblical Literature</td>
<td>3</td>
<td>3</td>
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<tr>
<td>THEO 104 Introduction to Christian Thought</td>
<td>3</td>
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**SKILLS & KNOWLEDGE (9 hrs)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Hrs</th>
<th>Sem</th>
<th>Grade</th>
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</thead>
<tbody>
<tr>
<td>BUSI 201 Intermediate Business Computer Apps</td>
<td>3</td>
<td>3</td>
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<tr>
<td>MATH 121 College Algebra</td>
<td>3</td>
<td>3</td>
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<tr>
<td>ECON 214 Principles of Macroeconomics</td>
<td>3</td>
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**Data Network & Security Cognate (15 hours)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Hrs</th>
<th>Sem</th>
<th>Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>BMIS 200 Enterprise Business Applications &amp; Comm.</td>
<td>3</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>BMIS 212 Object-Oriented Programming</td>
<td>3</td>
<td>3</td>
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<tr>
<td>BMIS 310 Web Architecture &amp; Development</td>
<td>3</td>
<td>3</td>
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<tr>
<td>BMIS 312 Advanced Object-Oriented Programming</td>
<td>3</td>
<td>3</td>
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<tr>
<td>BMIS 320 IS Hardware &amp; Software</td>
<td>3</td>
<td>3</td>
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<tr>
<td>BMIS 325 Database Management Systems</td>
<td>3</td>
<td>3</td>
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<tr>
<td>BMIS 330 Business Data Communication Systems</td>
<td>3</td>
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<tr>
<td>BMIS 340 Studies in Information Security</td>
<td>3</td>
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<tr>
<td>BMIS 375 Introduction to Human-Computer Interaction</td>
<td>3</td>
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<tr>
<td>BUSI 390 Business Common Professional Components</td>
<td>3</td>
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<tr>
<td>CSIS 352 System Administration</td>
<td>3</td>
<td>3</td>
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<tr>
<td>CSIS 354 Integrative Programming &amp; Technologies</td>
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<tr>
<td>CSIS 465 Enterprise Systems &amp; Integration</td>
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**ELECTIVES (21 hrs)**

<table>
<thead>
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<th>Course</th>
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<tbody>
<tr>
<td>BMIS 331 Networks</td>
<td>3</td>
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<tr>
<td>BMIS 335 Network Security</td>
<td>3</td>
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<tr>
<td>BMIS 341 Information Security Planning</td>
<td>3</td>
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<tr>
<td>BMIS 342 Cyber Security</td>
<td>3</td>
<td>3</td>
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<tr>
<td>or BMIS 499 Internship</td>
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<tr>
<td>BMIS 430 Advanced Networking &amp; Comm. Systems</td>
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### Graduation Requirements

- 120 total hours
- 30 hours of upper-level courses
- 50% (27 hours) of major taken through LU
- 30 hours must be completed through LU (Online and/or Residential)
- 2.0 grade point average
- Grades of “C” or higher for all courses in major
- Submission of Graduation Application at beginning of final semester

### Notes

1. ENGL 100 (minimum grade of C) is a prerequisite for ENGL 101
2. MATH 110 (minimum grade of C) or equivalent is a prerequisite for MATH 121 & 201
3. INFT 110 is a prerequisite for BUSI 201
4. MATH 108 (minimum grade of C) is a prerequisite for MATH 110
5. A score of 13 on the Math Assessment or CLST 103 is a prerequisite for MATH 100
## SUGGESTED COURSE SEQUENCE

### FRESHMAN YEAR

<table>
<thead>
<tr>
<th>First Semester</th>
<th>Second Semester</th>
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<tbody>
<tr>
<td>BIBL 104</td>
<td>BUSI 201</td>
</tr>
<tr>
<td>ENGL 101</td>
<td>ENGL 102</td>
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<tr>
<td>INFT 101</td>
<td>Natural Science Elective</td>
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<tr>
<td>Elective¹ [MATH 110]</td>
<td>THEO 104</td>
</tr>
<tr>
<td>Elective² [INFT 110]</td>
<td>BMIS 200</td>
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### SOPHOMORE YEAR

<table>
<thead>
<tr>
<th>First Semester</th>
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<tbody>
<tr>
<td>APOL 104</td>
<td>Communications Elective</td>
</tr>
<tr>
<td>MATH 121</td>
<td>MATH 201</td>
</tr>
<tr>
<td>BMIS 330</td>
<td>BMIS 212</td>
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<td>BMIS 340</td>
<td>BMIS 310</td>
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### JUNIOR YEAR

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<thead>
<tr>
<th>First Semester</th>
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<tbody>
<tr>
<td>History Elective</td>
<td>Humanities Elective</td>
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<tr>
<td>PHIL 201</td>
<td>BMIS 331</td>
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<tr>
<td>BMIS 320</td>
<td>BMIS 335</td>
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<tr>
<td>BMIS 325</td>
<td>CSIS 352</td>
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<td>Elective</td>
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<td>Elective</td>
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### SENIOR YEAR

<table>
<thead>
<tr>
<th>First Semester</th>
<th>Second Semester</th>
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<tbody>
<tr>
<td>ECON 214</td>
<td>BMIS 342 or 499</td>
</tr>
<tr>
<td>BMIS 312</td>
<td>BMIS 375</td>
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<tr>
<td>BMIS 341</td>
<td>BMIS 430</td>
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<tr>
<td>CSIS 354</td>
<td>BUSI 390</td>
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<tr>
<td>Elective</td>
<td>CSIS 465</td>
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### Notes

1. MATH 110 or equivalent is a prerequisite for MATH 121 & 201
2. INFT 110 or equivalent is a prerequisite for BUSI 201

Suggested course sequencing for Liberty University Online students may change depending on transfer credit. Please contact an Admissions Specialist or Academic Advisor for assistance at (800) 424-9595.