Advisement Booklet
2015 – 2016

Student Name: ____________________________ ENumber: ____________________

The requirements outlined here are the ones you will need to complete in order to
graduate with a degree in Computing from ETSU.

*******SAVE THIS BOOKLET*******

Bring this booklet with you to each required advising session to prepare for the next semester.
If you have any questions, please ask your advisor.

ADVISEMENT IS REQUIRED FOR ALL COMPUTING MAJORS from the time they enter the major until graduation.
Computing majors must schedule a meeting with their assigned advisor prior to registering each semester.
Only then will the advisor remove the "registration hold" so that the student may register.

An updated list of majors and their assigned advisors will be posted on the department's web site
(http://www.cs.etsu.edu) during the two weeks preceding registration each semester.
Important Contact Information

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Dr. Christopher Wallace
wallacec@etsu.edu
Bachelor of Science in Computing with concentrations in:

- Computer Science (CS)
- Information Systems (IS)
- Information Technology (IT)

The three concentrations share a common computing core of courses that provides a strong background in programming, design, computer organization, database management, networking, security, and software engineering. All concentrations require a probability and statistics course and a discrete mathematics course. The concentrations emphasize practical skills needed to succeed in careers in computing, including technical skills, written and oral communication, project management, and teamwork. Graduates work throughout the region and nation at highly competitive salaries and in a wide variety of industries. In addition, many of our graduates go on to further studies, including the department's graduate program.

**COMPUTER SCIENCE (CS)** - The CS concentration supplements the computing core curriculum with courses in data structures, algorithms, computer architecture, and operating systems. Students apply their knowledge to the development of systems-level software programs. These applications include, but are not limited to, real-time graphics simulations, distributed systems, and operating systems. The concentration would also be an asset for those students who are planning for graduate work in computing.

**INFORMATION SYSTEMS (IS)** - The IS concentration supplements the core curriculum with courses in Enterprise Resource Planning and enterprise system implementation and programming. Students select an emphasis in accountancy or management, and explore the application of information systems in business process definition and execution. This concentration is designed for students who wish to apply their knowledge in enterprise information systems, business-oriented computing or within their emphasis area. This concentration is also recommended for those who plan graduate work in information systems or business administration.

**INFORMATION TECHNOLOGY (IT)** - The IT concentration supplements the core curriculum with courses in web development, database and system administration, and human computer interaction. This concentration is designed for students who wish to apply their knowledge in aforementioned fields, and for those who plan graduate work in information technology.

The undergraduate Computer Science, Information Systems, and Information Technology programs at ETSU are accredited by the Computing Accreditation Commission (CAC) of ABET, [http://www.abet.org](http://www.abet.org), an accrediting body recognized by the Council for Higher Education Accreditation (CASA).
# Computing Concentration Comparison Chart

<table>
<thead>
<tr>
<th></th>
<th>Computer Science (CS)</th>
<th>Information Systems (IS)</th>
<th>Information Technology (IT)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Gen Ed Requirements</strong></td>
<td>41 Credit Hours</td>
<td>38 credit hours + 3 credit hours from ECON 2210 in Emphasis Area</td>
<td>41 Credit Hours</td>
</tr>
<tr>
<td><strong>Concentration Core</strong></td>
<td></td>
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<td>33 Credit Hours</td>
</tr>
<tr>
<td><strong>Concentration Courses</strong></td>
<td>36 Credit Hours</td>
<td>25-26 Credit Hours *</td>
<td>28 Credit Hours</td>
</tr>
<tr>
<td><strong>Major Electives</strong></td>
<td>9 Credit Hours</td>
<td>9 Credit Hours</td>
<td>9 Credit Hours</td>
</tr>
<tr>
<td><strong>Emphasis Area</strong></td>
<td>0 Credit Hours</td>
<td>15 Credit Hours 3hrs. are also used in the General Education Req.</td>
<td>0 Credit Hours</td>
</tr>
<tr>
<td><strong>Free Electives</strong></td>
<td>5 Credit Hours</td>
<td>3-4 Credit Hours *</td>
<td>13 Credit Hours</td>
</tr>
<tr>
<td><strong>Minor Requirements</strong></td>
<td>No Minor Required</td>
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</tr>
<tr>
<td><strong>Total Credit Hours</strong></td>
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<td>124 Credit Hours</td>
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</table>

**Special Notes**
- Included in the Concentration Courses
  - Calculus I
  - Calculus II
  - Linear Algebra
  - Additional Lab Science
- Take ECON 2210 to satisfy a general education course (Social/Behavioral Science) and an emphasis area required course
- * Calculus I (4) or Differential Algebra (3)

**Important Notes**
- Credit hours for CSCI 1100 are not required, since students may test out of CSCI 1100 during their first semester. If a student chooses to take CSCI 1100 for credit, the credit hours will count towards the needed free electives.
- CSCI 1510 is required for each concentration, but is not taken by students who have come into the program with a significant number of credit hours. If the advisor and student decide that the student should not take CSCI 1510, then the student must replace these 3 credit hours with another approved major elective course.
- CSCI 1510 may be attempted only once. If a student fails CSCI 1510, then the student will have to take another approved major elective to replace those 3 credit hours.
- All major electives are APPROVED major electives, meaning the electives must be discussed and approved by the student's advisor.
- CSCI 1100, Internship/Cooperative education courses and similar courses will not count towards the major.
- Any course taken at another institution and transferred into ETSU must be evaluated and does not automatically count as a major requirement. Acceptance of transfer coursework is subject to articulation agreements and the decision of the Department Advisor or Chair.
- RODP courses do not count towards a major in our department.
### Writing: 6 credit (Grade C or better for both)
- ENGL 1010 Critical Reading & Exp. Writing (3)
- ENGL 1020 Critical Thinking & Argument (3)

### Oral Communication
- SPCH 1300 General Speech (3) [O]
- SPCH 2300 Public Speaking (3) [O]
- SPCH 2320 Argumentation & Debate (3) [O]

(Note: one Oral Communication course cannot satisfy both the general education requirement and an oral intensive requirement)

### Fine Arts: 3 credits (select one)
- ARTH 2010 Art History Survey I (3)
- ARTH 2020 Art History Survey II (3)
- BLUE 2150 American Roots Music (3)
- DANC 1500 Dance as Human Experience (3)
- HUMT 2310 Humanities I (to 1600) (3)
- HUMT 2320 Humanities II (1600 – ) (3)
- MUSC 1030 Introduction to Music (3)
- MUSC 1035 History of Jazz (3)
- THEA 1030 Introduction to Theater (3)

### Social/Behavioral Sciences 6 cr. hours (select two)
- ANTH 1240 Intro. to Cultural Anthropology (3)
- ECON 2220 Principles of Microeconomics (3)
- ECON 1050 Econ & Soc. (3) or ECON 2210 Macroeconomics (3) (choose ECON 2210 for IS concentration)
- GEOG 1012 Intro. to Cultural Geography (3)
- HDAL 2310 Dev. Lifespan Psychology (3)
- HDAL 2340 Understanding Cultural Div. (3)
- PSCI 1110 Political Life (3) [W][O]
- PSCI 1120 Intro. to American Government (3)
- PSYC 1310 Introduction to Psychology (3)
- SOCI 1020 Introduction to Sociology (3)
- SOCI 2020 Social Problems (3) [W]
- SRVL 1020 Intro. to Service Learning (3) [W][O]
- WMST 2010 Intro. to Women's Studies (3) [W]

### History: 6 credit (select two)
- HIST 2010 US to 1877 (3)
- HIST 2020 U.S. Since 1877 (3)
- HIST 2030 History of Tennessee (3)

### Literature 3 credits (select one)
- ENGL 2030 Literary Heritage (3)
- ENGL 2110 American Literature I (3)
- ENGL 2120 American Literature II (3)
- ENGL 2210 British Literature I (3) [W]
- ENGL 2220 British Literature II (3) [W]
- ENGL 2330 World Literature (3)
- ENGL 2430 European Literature (3) [W]

### Humanities: 3 credits (select one)
- ENGL 3150 Lit., Ethics, and Values (3) [W]
- ENGL 3280 Mythology (3) [W]
- ENTC 3020 Technology and Society (3)
- HIST 1110 World Hist. & Civ. to 1500 (3)
- HIST 1120 World Hist. & Civ. since 1500 (3)
- PHIL 1030 Introduction to Philosophy (3)
- PHIL 2020 Introduction to Ethics (3) [W]
- PHIL 2040 Philosophy as Conversation (3) [O]
- RELI 2210 Intro. to the Study of Religion (3)
- PHIL 2640 Science and the Modern World (3)
- WMST 2010 Intro. to Women's Studies (3) [W]

### Natural Sciences: 8 credits (you must select a full sequence from the following options.)
- ASTR 1010 & ASTR 1020 Astronomy I and II
- BIOL 1110/1111 & 1120/1121 BIO I & II
- CHEM 1110/1111 & 1120/1121 Chem. I & II
- GEOL 1040/1041 & 1050 Earth and Society & Time
- PHYS 2110 & 2120 Tech. Physics I & II Calc. Based

These are the only sciences that count for Computing Majors. Sciences not for majors **DO NOT COUNT.**
Catalog Year 2015–2016

Computer Science (CS) Concentration Checklist

Written Composition (6 hours)

☐ ENGL 1010 Critical Reading & Exp. Writing (3)
☐ ENGL 1020 Critical Thinking & Argumentation (3)

Oral Communication (3 hours)

☐ __________________________________________

Literature (3 hours)

☐ __________________________________________

Social and Behavioral Science (6 hours)

☐ __________________________________________

Using Information Technology (0 or 3 hours)

☐ CSCI 1100 (3) OR ☐ Proficiency Exam (0)

Computing Core (30 Hours)

☐ CSCI 1250 Intro. to Computer Science I (4)
☐ CSCI 1260 Intro. to Computer Science II (4)
(CSCI 1250 and 1260 need to have a B- or better to continue)

☐ CSCI 1400 PC Set-Up and Maintenance (1)

☐ CSCI 1510 Student in University (3) [W]
(if for any reason you do not take or pass CSCI 1510, you must take another approved major elective in its place)

☐ CSCI 1900 Math for Computer Science (3)
☐ CSCI 2020 Fundamentals of Database (3)
☐ CSCI 2150 Computer Organization (3)
☐ CSCI 3250 Software Engineering I (3) [W]
☐ CSCI 3350 Software Engineering II (3) [O]
☐ CSCI 3400 Networking Fundamentals (3)
☐ CSCI 3500 Information Security and Assurance (3)

History (6 hours)

☐ __________________________________________

☐ __________________________________________

Fine Arts (3 hours)

☐ __________________________________________

Humanities (3 hours)

☐ __________________________________________

Natural Science (8 hours of a sequence)

☐ __________________________________________

☐ __________________________________________

Probability and Statistics (3 hours)

☐ MATH 1530 Probability and Statistics (3)

CS Concentration Courses (36 Hours)

☐ CSCI 2160 Assembly Language (4)
☐ CSCI 2200 Unix Fundamentals (3)
☐ CSCI 2210 Data Structures (4)
☐ CSCI 3230 Algorithms (4)
☐ CSCI 4717 Computer Architecture (3)
☐ CSCI 4727 Operating Systems (3)
☐ MATH 1910 Calculus I (4)
☐ MATH 1920 Calculus II (4)
☐ MATH 2010 Linear Algebra (3)
☐ Additional Lab Science ____________________(4)

Major Electives (9 hours)

☐ APPROVED major Elective CSCI ____________(3)*
☐ APPROVED major Elective CSCI ____________(3)*
☐ APPROVED major Elective CSCI ____________(3)*

*(At least one major elective must be at the 3XXX/4XXX level. CSCI 110X, 1200 or Co-op Ed. and Internships DO NOT count towards Major Electives)

Free Electives (2 hours) (5 hours if CSCI 1100 is not taken)

☐ __________________________________________(____)

☐ __________________________________________(____)
Catalog Year 2015-2016
Computer Science (CS) Prerequisite Courses Tree (prerequisites can change)

- CSCI 1250 (4 cr)
  Introduction to Computer Science I
  (Must have a B- or better to proceed)
- CSCI 1900 (3 cr)
  Math for Computer Science
- CSCI 1100 (3 cr)
  Using Information Technology
- CSCI 1510 (3 cr)
  Student in University
  (Only Available to First Time Freshmen)

- MATH 1910 (4 cr)
  Calculus I
- CSCI 2020 (3 cr)
  Fundamentals of Database
- CSCI 1260 (4 cr)
  Introduction to Computer Science II
- CSCI 2150 (3 cr)
  Computer Organization
- CSCI 1400 (1 cr)
  PC Set-Up and Maintenance

- MATH 1920 (4 cr)
  Calculus II
- CSCI 2210 (4 cr)
  Data Structures
- CSCI 2200 (3 cr)
  Unix Fundamentals
- CSCI 1550 (4 cr)
  Computer Organization
- CSCI 3400 (3 cr)
  Networking Fundamentals

- CSCI 3230 (4 cr)
  Algorithms
- CSCI 2210 (4 cr)
  Data Structures
- CSCI 2200 (3 cr)
  Unix Fundamentals
- CSCI 2160 (4 cr)
  Assembly Language
- CSCI 3500 (3 cr)
  Information Security and Assurance

- CSCI 3250 (3 cr)
  Software Engineering I
- CSCI 2210 (4 cr)
  Data Structures
- CSCI 2200 (3 cr)
  Unix Fundamentals
- CSCI 2160 (4 cr)
  Assembly Language
- CSCI 4727 (3 cr)
  Operating Systems (Spring Only)

- CSCI 3350 (3 cr)
  Software Engineering II
- CSCI 2210 (4 cr)
  Data Structures
- CSCI 2200 (3 cr)
  Unix Fundamentals
- CSCI 2160 (4 cr)
  Assembly Language
- CSCI 4727 (3 cr)
  Operating Systems (Spring Only)
### Catalog Year 2015-2016

#### Information Systems (IS) Concentration Checklist

<table>
<thead>
<tr>
<th>Written Composition (6 hours)</th>
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<tbody>
<tr>
<td>ENGL 1010 Critical Reading &amp; Exp. Writing (3)</td>
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<tr>
<td>ENGL 1020 Critical Thinking &amp; Argumentation (3)</td>
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<tr>
<th>Oral Communication (3 hours)</th>
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<tr>
<th>Literature (3 hours)</th>
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<tr>
<th>Social and Behavioral Science (6 hours)</th>
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<tr>
<td>ECON 2210 is Required by the Emphasis</td>
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<tr>
<th>Using Information Technology (0 or 3 hours)</th>
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<tbody>
<tr>
<td>CSCI 1100 (3) OR Proficiency Exam (0)</td>
<td></td>
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<tr>
<td>Computing Core (30 hours)</td>
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| CSCI 1250 Intro. to Computer Science I (4) |  |
| CSCI 1260 Intro. to Computer Science II (4) |  |

(CSCI 1250 and 1260 need to have a B- or better to continue)

| CSCI 1400 PC Set-Up and Maintenance (1) |  |
| CSCI 1510 Student in University (3) [W] |  |

(if for any reason you do not take or pass CSCI 1510, you must take another approved major elective in its place)

| CSCI 1900 Math for Computer Science (3) |  |
| CSCI 2020 Fundamentals of Database (3) |  |
| CSCI 2150 Computer Organization (3) |  |
| CSCI 3250 Software Engineering I (3) [W] |  |
| CSCI 3350 Software Engineering II (3) [O] |  |
| CSCI 3400 Networking Fundamentals (3) |  |
| CSCI 3500 Information Security and Assurance (3) |  |

** (At least one major elective must be at the 3XXX/4XXX level. CSCI 110X, 1200 or Co-op Ed. and Internships DO NOT count towards Major Electives)

<table>
<thead>
<tr>
<th>Accountancy or Management Emphasis (15 hours)</th>
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<tr>
<th>History (6 hours)</th>
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<tr>
<th>Fine Arts (3 hours)</th>
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<tr>
<th>Humanities (3 hours)</th>
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<tr>
<th>Natural Science (8 hours of a sequence)</th>
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<thead>
<tr>
<th>Probability and Statistics (3 hours)</th>
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<tbody>
<tr>
<td>MATH 1530 Probability and Statistics (3)</td>
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<table>
<thead>
<tr>
<th>IS Concentration Courses (25 - 26 Hours)</th>
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<tbody>
<tr>
<td>CSCI 1710 Web Design and Development (3)</td>
<td></td>
</tr>
<tr>
<td>CSCI 2910 Server-Side Web Programming (4)</td>
<td></td>
</tr>
<tr>
<td>CSCI 3720 Fund. of Business Info. Systems (3) [W]</td>
<td></td>
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<tr>
<td>CSCI 3020 Database Advanced Topics (3)</td>
<td></td>
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<tr>
<td>CSCI 4757 Info. System Implementation (3)</td>
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</tr>
<tr>
<td>CSCI 4767 Enterprise Programming (3)</td>
<td></td>
</tr>
<tr>
<td>CSCI 4770 Info. Systems Strategy and Mgmt. (3)</td>
<td></td>
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<tr>
<td>MATH 1840 (3) or MATH 1910 (4)</td>
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<table>
<thead>
<tr>
<th>Major Electives (9 hours)</th>
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<tbody>
<tr>
<td>APPROVED major Elective CSCI __________(3)*</td>
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<tr>
<td>APPROVED major Elective CSCI __________(3)**</td>
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*(One elective course may relate to emphasis area)

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<th>Accountancy or Management Emphasis (15 hours)</th>
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<tr>
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<table>
<thead>
<tr>
<th>Free Electives (0-1 hours)</th>
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</table>

Free Electives (0 -1 hours) (2-3 hours if CSCI 1100 is not taken)
Catalog Year 2015-2016
Information Systems (IS) Prerequisite Courses Tree (prerequisites can change)

CSCI 1250 (4 cr)
Introduction to Computer Science I
(Must have a B- or better to proceed)

CSCI 1900 (3 cr)
Math for Computer Science

CSCI 1100 (3 cr)
Using Information Technology

CSCI 1710 (3 cr)
Web Design and Development

CSCI 2020 (3 cr)
Fundamentals of Database

CSCI 1260 (4 cr)
Introduction to Computer Science II

CSCI 2150 (3 cr)
Computer Organization

CSCI 1400 (1 cr)
PC Set-Up and Maintenance

CSCI 1710 (3 cr)
Web Design and Development

CSCI 2020 (3 cr)
Fundamentals of Database

CSCI 1260 (4 cr)
Introduction to Computer Science II

CSCI 2150 (3 cr)
Computer Organization

CSCI 1400 (1 cr)
PC Set-Up and Maintenance

CSCI 2910 (4 cr)
Server-Side Web Programming

CSCI 3720 (3 cr)
Fundamentals of Business IS

CSCI 4770 (3 cr)
Information Systems Strategy and Management (within 2 semesters of graduating)

CSCI 3020 (3 cr)
Database Advanced Topics

CSCI 4770 (3 cr)
Information Systems Strategy and Management (within 2 semesters of graduating)

CSCI 4767 (3 cr)
Enterprise Programming (Spring Only)

ACCT 2010 (3 cr)
Principles of Accounting I

CSCI 3400 (3 cr)
Networking Fundamentals

CSCI 3250 (3 cr)
Software Engineering I

CSCI 4767 (3 cr)
Enterprise Programming (Spring Only)

CSCI 3350 (3 cr)
Software Engineering II

CSCI 3250 (3 cr)
Software Engineering I

CSCI 4767 (3 cr)
Enterprise Programming (Spring Only)

CSCI 3250 (3 cr)
Software Engineering I

CSCI 4767 (3 cr)
Enterprise Programming (Spring Only)

CSCI 3250 (3 cr)
Software Engineering I

CSCI 4767 (3 cr)
Enterprise Programming (Spring Only)

CSCI 3250 (3 cr)
Software Engineering I

CSCI 4767 (3 cr)
Enterprise Programming (Spring Only)

CSCI 3250 (3 cr)
Software Engineering I

CSCI 4767 (3 cr)
Enterprise Programming (Spring Only)
# Catalog Year 2015-2016

## Information Technology (IT) Concentration Checklist

### Written Composition (6 hours)
- [ ] ENGL 1010 Critical Reading & Exp. Writing (3)
- [ ] ENGL 1020 Critical Thinking & Argumentation (3)

### Oral Communication (3 hours)
- [ ] __________________________

### Literature (3 hours)
- [ ] __________________________

### Social and Behavioral Science (6 hours)
- [ ] __________________________
- [ ] __________________________

### Using Information Technology (0 or 3 hours)
- [ ] CSCI 1100 (3) OR [ ] Proficiency Exam (0)

### Computing Core (30 Hours)
- [ ] CSCI 1250 Intro. to Computer Science I (4)
- [ ] CSCI 1260 Intro. to Computer Science II (4)
  *(CSCI 1250 and 1260 need to have a B- or better to continue)*
- [ ] CSCI 1400 PC Set-Up and Maintenance (1)
- [ ] CSCI 1510 Student in University (3) [W]
  *(if for any reason you do not take or pass CSCI 1510, you must take another approved major elective in its place)*
- [ ] CSCI 1900 Math for Computer Science (3)
- [ ] CSCI 2020 Fundamentals of Database (3)
- [ ] CSCI 2150 Computer Organization (3)
- [ ] CSCI 3250 Software Engineering I (3) [W]
- [ ] CSCI 3350 Software Engineering II (3) [O]
- [ ] CSCI 3400 Networking Fundamentals (3)
- [ ] CSCI 3500 Information Security and Assurance (3)

### History (6 hours)
- [ ] __________________________
- [ ] __________________________

### Fine Arts (3 hours)
- [ ] __________________________

### Humanities (3 hours)
- [ ] __________________________

### Natural Science (8 hours of a sequence)
- [ ] __________________________

### Probability and Statistics (3 hours)
- [ ] MATH 1530 Probability and Statistics (3)

### IT Concentration Courses (28 Hours)
- [ ] CSCI 1710 Web Design and Development (3)
- [ ] CSCI 2200 Unix Fundamentals (3)
- [ ] CSCI 2910 Server Side Web Programming (4)
- [ ] CSCI 3020 Database Advanced Topics (3)
- [ ] CSCI 3110 Adv. Topics in Web Development (3)
- [ ] CSCI 3720 Fund. of Business Info. Systems (3) [W]
- [ ] CSCI 4417 Intro to System Administration (3)
- [ ] CSCI 4927 Human & Computer Interaction (3) [W]
- [ ] CSCI 4800 Senior Project in IT (3)

### Major Electives (9 hours)
- [ ] APPROVED major Elective CSCI _________(3)*
- [ ] APPROVED major Elective CSCI _________(3)*
- [ ] APPROVED major Elective CSCI _________(3)*

* (At least one major elective must be at the 3XXX/4XXX level. CSCI 110X, 1200 or Co-op Ed. and Internships DO NOT count towards Major Electives)*

### Free Electives (10 hours) (13 hours if CSCI 1100 is not taken)
- [ ] __________________________( )
- [ ] __________________________( )
- [ ] __________________________( )
- [ ] __________________________( )
- [ ] __________________________( )
- [ ] __________________________( )
- [ ] __________________________( )
Catalog Year 2015-2016
Information Technology (IT) Prerequisite Courses Tree (prerequisites can change)

CSCI 1250 (4 cr) Introduction to Computer Science I (Must have a B- or better to proceed)

CSCI 1900 (3 cr) Math for Computer Science

CSCI 1100 (3 cr) Using Information Technology

CSCI 1510 (3 cr) Student in University (Only Available to First Time Freshmen)

CSCI 1710 (3 cr) Web Design and Development

CSCI 2020 (3 cr) Fundamentals of Database

CSCI 1260 (4 cr) Introduction to Computer Science II

CSCI 2150 (3 cr) Computer Organization

CSCI 1400 (1 cr) PC Set-Up and Maintenance

CSCI 1710 (3 cr) Web Design and Development

CSCI 2020 (3 cr) Fundamentals of Database

CSCI 2150 (3 cr) Computer Organization

CSCI 1400 (1 cr) PC Set-Up and Maintenance

CSCI 2910 (4 cr) Server Side Web Programming

CSCI 3720 (3 cr) Fundamentals of Business IS

CSCI 2150 (3 cr) Computer Organization

CSCI 3400 (3 cr) Network Fundamentals

CSCI 3020 (3 cr) Database Advanced Topics

CSCI 3110 (3 cr) Advanced Web Or CSCI 4617 (3 cr) XML

CSCI 3400 (3 cr) Network Fundamentals

CSCI 4417 (3 cr) Introduction to System Administrator

CSCI 3500 (3 cr) Information Security and Assurance

CSCI 3250 (3 cr) Software Engineering I

CSCI 2200 (3 cr) Unix

CSCI 4417 (3 cr) Introduction to System Administrator

CSCI 3500 (3 cr) Information Security and Assurance

CSCI 4927 (3 cr) Human Computer Interaction

CSCI 3500 (3 cr) Information Security and Assurance

CSCI 4800 (3 cr) Senior Project in IT (within 2 semesters of graduating as a Computing Major)

CSCI 3250 (3 cr) Software Engineering I

CSCI 3350 (3 cr) Software Engineering II

CSCI 4927 (3 cr) Human Computer Interaction
Possible Electives for Concentrations

- CS Concentrations
  - CSCI 1710 – Web Design and Development
  - CSCI 1720 – Intermediate Topics in Web Development
  - CSCI 2910 – Server-Side Web Programming
  - CSCI 3020 – Database Advanced Topics
  - CSCI 3720 – Fundamentals of Business Information Systems (W)
  - CSCI 4317 – Internet and Computer Law (W)
  - CSCI 4417 – Intro to System Administration
  - CSCI 4757 – IS Implementation
  - CSCI 4767 – Enterprise Programming
  - CSCI 4927 – Human Computer Interaction (W)
  - CSCI 4957 – Special Topics in Computer Science

- IS Concentrations
  - CSCI 1720 – Intermediate Topics in Web Development
  - CSCI 2200 – Unix Fundamentals
  - CSCI 2160 – Assembly Language
  - CSCI 2210 – Data Structures
  - CSCI 3230 – Algorithms
  - CSCI 4317 – Internet and Computer Law (W)
  - CSCI 4417 – Introduction to System Administration
  - CSCI 4717 – Computer Architecture
  - CSCI 4727 – Operating Systems
  - CSCI 4927 – Human Computer Interaction (W)
  - CSCI 4957 – Special Topics in Computer Science
  - One course related to emphasis area

- IT Concentrations
  - CSCI 1720 – Intermediate Topics in Web Development
  - CSCI 2160 – Assembly Language
  - CSCI 2210 – Data Structures
  - CSCI 3230 – Algorithms
  - CSCI 4317 – Internet and Computer Law (W)
  - CSCI 4717 – Computer Architecture
  - CSCI 4727 – Operating Systems
  - CSCI 4757 – IS Implementation
  - CSCI 4767 – Enterprise Programming
  - CSCI 4957 – Special Topics in Computer Science
To earn a Bachelor of Science degree in Computing, you must:

- Complete CSCI 1100 or the UIT Proficiency Exam
- Complete a minimum of 124 semester hours
- Meet all General Education requirements (see general education checklist)
- Meet all requirements concentration-specific requirements (CS, IS, or IT) (see concentration checklist)
- Meet Proficiency Intensive Course Requirements
  - Writing: In addition to the general education writing courses, students must complete a minimum of four writing-intensive (W) courses. At least two of these courses must be in the student's major or minor. At least two of the four courses must be at the 3000-4000 level.
    - CSCI 3250
  - Oral Communication: In addition to the general education oral communication course, students must complete a minimum of two oral communication intensive (O) courses. At least one of these courses must be in the student's major or minor.
    - CSCI 3350
  - **NOTE:** Transfer students with an associate degree or with 50 or more transferable semester hours are required to complete only two writing-intensive courses, one oral communication-intensive course, and one using information technology-intensive course.
- Attain a GPA of 2.5 or better overall
- Attain a GPA of 2.5 or better in all computing courses
- Achieve a "C-" or better in all other major requirements
- Achieve a grade of "C" or better in ENGL 1010 and ENGL 1020
- California Critical Thinking Skills Test (CCTST) (Senior Exit Exam)
Computer Science (CS) Concentration Sample 4 Year Plan

(4-year plans are designed to help students with planning their academic career. This plan serves as a guide and does not guarantee courses will be offered during the given semester or that a student will be able to register for the courses at the given time. Some course can be taken at different semesters then stated in the plan below.)

<table>
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<tr>
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<td>CSCI 1900 Math for Computer Science</td>
<td>3 cr</td>
<td>CSCI 2020 Fundamentals of Database</td>
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<tr>
<td>CSCI 1100 Using Information Technology</td>
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<td>ENGL 1020 Critical Thinking &amp; Argumentation</td>
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<td>3 cr</td>
<td>Oral Communication Choice</td>
<td>3 cr</td>
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<td>ENGL 1010 Critical Reading &amp; Exp. Writing</td>
<td>3 cr</td>
<td>History Choice</td>
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<td>CSCI 2150 Computer Organization</td>
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<td>CSCI 2210 Data Structures</td>
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<td>CSCI 2200 Unix Fundamentals</td>
<td>4 cr</td>
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<td>MATH 1910 Calculus I</td>
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<td>1st Lab Science Choice</td>
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<td>CSCI 3230 Algorithms</td>
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<td>CSCI 3400 Networking Fundamentals</td>
<td>3 cr</td>
<td>CSCI 3500 Information Security and Assurance</td>
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<tr>
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<td>MATH 1530 Probability &amp; Statistics</td>
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<td>MATH 2010 Linear Algebra</td>
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<td>17 cr</td>
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<td>Social &amp; Behavioral Science Choice</td>
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Information Systems (IS) Concentration Sample 4 Year Plan

(4-year plans are designed to help students with planning their academic career. This plan serves as a guide and does not guarantee courses will be offered during the given semester or that a student will be able to register for the courses at the given time. Some course can be taken at different semesters then stated in the plan below.)

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<td>CSCI 1710 Web Design and Development 3 cr</td>
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<td>ENGL 1020 Critical Thinking &amp; Argumentation 3 cr</td>
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<td>ENGL 1010 Critical Reading &amp; Exp. Writing 3 cr</td>
<td>MATH 1530 Probability &amp; Statistics 3 cr</td>
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<th>Third Semester</th>
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<tr>
<td></td>
<td>CSCI 1400 PC Set-Up and Maintenance 1 cr</td>
<td>CSCI 2910 Server Side Web Programming 4 cr</td>
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<td>CSCI 2150 Computer Organization 3 cr</td>
<td>CSCI 3400 Networking Fundamentals 3 cr</td>
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<td>CSCI 2020 Fundamentals of Database 3 cr</td>
<td>CSCI 3720 Fundamentals of Business IS 3 cr</td>
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<td>ECON 2210 Principles of Macroeconomics 3 cr</td>
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<td>MATH 1840 or MATH 1910 3 / 4 cr</td>
<td>ACCT 2010 Principles of Accounting 3 cr</td>
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<tr>
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<td>CSCI 3020 Database Advanced Topics 3 cr</td>
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<td>CSCI 4757 IS Implementation 3 cr</td>
<td>CSCI 4767 Enterprise Programming 3 cr</td>
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<td>CSCI 3500 Information Security and Assurance 3 cr</td>
<td>Social &amp; Behavioral Science Choice 3 cr</td>
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Information Technology (IT) Concentration Sample 4 Year Plan

(4-year plans are designed to help students with planning their academic career. This plan serves as a guide and does not guarantee courses will be offered during the given semester or that a student will be able to register for the courses at the given time. Some course can be taken at different semesters then stated in the plan below.)

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<td>CSCI 1260 Introduction to Computer Science II 4 cr</td>
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<td>CSCI 1710 Web Design and Development 3 cr</td>
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<td>CSCI 1100 Using Information Technology 3 cr</td>
<td>ENGL 1020 Critical Thinking &amp; Argumentation 3 cr</td>
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<td><strong>Third Semester</strong></td>
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<td>CSCI 1400 PC Set-Up and Maintenance 1 cr</td>
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<td>History Choice 3 cr</td>
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<td>CSCI 2200 Unix Fundamentals 3 cr</td>
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<td>CSCI 3250 Software Engineering I 3 cr</td>
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<td>CSCI Elective Choice 3 cr</td>
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<td>CSCI 3500 Information Security and Assurance 3 cr</td>
<td>Social &amp; Behavioral Science Choice 3 cr</td>
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<td>2nd Lab Science (Same Series as 1st choice) 4 cr</td>
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<td>CSCI 4927 Human and Computer Interaction 3 cr</td>
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<td>Humanities Choice 3 cr</td>
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Computing Minor Requirements

Name: ____________________________
ENumber: _________________________

- CSCI 1250 Intro. to Computer Science I 4 cr.
- CSCI 1900 Math for Computer Science 3 cr.
- CSCI 1260 Intro. to Computer Science II 4 cr.
- Approved CSCI Elective (Recommend a 2xxx Level Course) 3 cr.
- CSCI 3xxx or 4xxx Level Course 3 cr.
- CSCI 3xxx or 4xxx Level Course 3 cr.
- CSCI 3xxx or 4xxx Level Course 3 cr.

Total Credit Hours: 23 cr.

Minor Suggested Course Sequence based on Interests

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<th>Programming Interest</th>
<th>Networking &amp; Security Interest</th>
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<td>CSCI 3720 Fund. Of Business Info Systems (3)</td>
<td>CSCI 2210 Data Structures (4)</td>
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<td>CSCI 3230 Algorithms (4) *</td>
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23 Credit Hours 25 Credit Hours 24 Credit Hours