Student Name: __________________________________________

Email: _________________________________________________

Advisor’s Name (1st year): _________________________________

Advisor’s Name (2nd year – graduation): ____________________

This booklet serves as your contract with the Computer and Information Sciences Department at East Tennessee State University. The requirements outlined here are the ones you will need to complete in order to graduate with a degree in Computer Science 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.

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.
ETSU
Computer and Information Sciences
2010-2011 Undergraduate Student Advisement

Bachelor of Science Degree in Computer and Information Sciences with concentrations in:

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

The three concentrations share a common core of computer and information science (CSCI) courses that provide a strong background in programming, design, computer organization, database management, networking, 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 computer and information sciences, 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 masters program.

COMPUTER SCIENCE (CS) CONCENTRATION – The CS concentration supplements the CSCI core curriculum with courses in object-oriented programming and design, computer architecture, and operating systems. The concentration also requires 17 hours of mathematics, including the calculus sequence required of mathematics majors. This concentration is designed for students who wish to apply their knowledge in a scientific, engineering, or mathematical environment, and for those who plan graduate work in computer science or applied computational mathematics.

INFORMATION SYSTEMS (IS) CONCENTRATION - The IS concentration supplements the CSCI core curriculum with courses in Enterprise Information Systems (IS), IS implementation and development, and IS strategy and management. Students explore the application of IS in business process execution, and complete an emphasis in accounting or management. This concentration is designed for students who wish to apply their knowledge in fields involving computing systems used within business processes, and for those desiring work with large-scale Enterprise Information Systems. A foundation is laid for graduate work in information technology, information systems, and business administration.

INFORMATION TECHNOLOGY (IT) CONCENTRATION - The IT concentration supplements the CSCI core curriculum with courses in web development, database, system administration, human computer interaction, security, and ethics. Students select a general or web emphasis. This concentration is designed for students who wish to apply their knowledge in web development, database management, or system administration, and for those who plan graduate work in information technology.
GRADUATION REQUIREMENTS

To earn a Bachelor of Science degree in Computer & Information Sciences, you must:

- complete 124 semester hours
- meet all requirements of the General Education core (see general education checklist), including the General Education Proficiency Requirements (see below)
- meet all CSCI requirements specific to your concentration (CS, IS, or IT)
- attain a grade point average of 2.5 or better overall AND within the major
- achieve a grade of “C-” or better in all CSCI major requirements (see checklist for your concentration) and achieve a grade of “C” or better in the required freshman English courses.

Proficiency/Intensive Course Requirements

In addition to the 6 credit hours of writing and 3 credit hours of oral communication courses required for the general education requirements, courses that are designated as writing intensive, oral intensives and technology intensive must be taken as follows.

WRITING In addition to the general education writing courses, students must complete a minimum of four writing-intensive (WI) 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.

ORAL COMMUNICATION In addition to the general education oral communication course, students must complete a minimum of two oral communication intensive (OCI) courses. At least one of these courses must be in the student’s major or minor.

USING INFORMATION TECHNOLOGY Students must demonstrate a working knowledge of word-processing, spreadsheets, electronic communication, and online searches during their first calendar year of enrollment or prior to accumulating 30 semester credits at ETSU. This requirement may be met by passing the UIT proficiency exam or by successfully completing CSCI 1100, Using Information Technology. Students may register to take the UIT proficiency exam at http://www.etsu.edu/uit or by calling the Using Information Technology office at (423)439-6964. Registration for summer proficiency testing begins the first week in May. After the UIT proficiency exam (or CSCI 1100) is successfully completed, students must complete a minimum of one using information technology-intensive (UITI) course in the student’s major or minor.

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.

ADVISEMENT IS REQUIRED FOR ALL CSCI MAJORS

Advisement is required for all CSCI majors from the time they enter the major until graduation. CSCI majors must schedule a meeting with their assigned advisor prior to registering each semester. Only then will the “registration hold” be removed by the advisor so that the student may register. All new CSCI majors are assigned to Mr. Todd Franklin for their first two semesters and then they are reassigned to another faculty advisor. An updated list of majors and their assigned advisors will be posted on the department’s web
**2010-2011 General Education Requirements for CSCI Majors (41 credit hours)**

**WRITING: 6 credits (both) (Grade must be a C or better)**
- ENGL 1010 Critical Reading & Exp. Writing (3)
- ENGL 1020 Critical Thinking & Argument (3)

**HISTORY: 6 credits (select two)**
- HIST 2010 U.S. to 1877 (3)
- HIST 2020 U.S. Since 1877 (3)
- HIST 2030 History of Tennessee (3)

**ORAL COMMUNICATION: 3 credits (select one)**
- SPCH 1300 General Speech (3) [O]
- SPCH 2300 Public Speaking (3) [O]
- SPCH 2320 Argumentation & Debate (3) [O] (Recommended)
*(Note: one Speech 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)
- DAC 3500 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)

**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]

**SOCIAL/BEHAVIORAL SCIENCES: 6 credits (select two)**
- ANTH 1240 Introduction to Cultural Anthropology (3)
- ECON 1050 Economics & Society (3) or ECON 2210 Principles of Economics I (3)*
- GEOG 1110 and GEOG 1120 Earth Science: Weather & Climate, Landforms & Processes
- HUMT 2310 and HUMT 2320 Humanities I and II
- PSCI 1110 World History & Civilization to 1500 (3)
- PSCI 1120 World History & Civilization 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 Introduction to the Study of Religion (3)
- SRVL 1020 Introduction to Service Learning (3) [W] [O]
- WMST 2010 Introduction to Women's Studies (3) [W]

**HUMANITIES: 3 credits (select one)**
- ENGL 2040 Introduction to Literature (3)
- ENGL 3150 Literature, Ethics, and Values (3) [W]
- ENGL 3260 Mythology (3)
- ENT C 3020 Technology and Society (3)
- HIST 1110 World History & Civilization to 1500 (3)
- HIST 1120 World History & Civilization 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 Introduction to the Study of Religion (3)
- PHIL 2640 Science and the Modern World (3)

**USING MATHEMATICS: 3 credits**
- MATH 1530 Probability and Statistics (3) [C- or better]

**OTHER REQUIREMENTS:**
- CSCI 1100 Using Information Technology
  - Writing Int: __________ 3000/4000? __ Major? __
  - Writing Int: __________ 3000/4000? __ Major? __
  - Writing Int: __________ 3000/4000? __ Major? __
- Oral Int. __________ Oral Int. __________

**NATURAL SCIENCES: 8 credits (select one full sequence from the following options - For example if you take ASTR 1010, you must take ASTR 1020 to complete the sequence.)**
- ASTR 1010 and ASTR 1020 Astronomy I and II
- BIOL 1110/1111 and BIOL 1120/1121 Biology for Science Majors Sequence
- CHEM 1110/1111 and CHEM 1120/1121 General Chemistry Sequence
- GEOG 1110 and GEOG 1120 Earth Science: Weather & Climate, Landforms & Processes
- GEOL 1040/1041 and GEOL 1050 Physical and Historical Geology
- HSCI 2010/2011 and HSCI 2020/2021 Anatomy & Physiology I and II
- PHYS 2010/2011/2012 and PHYS 2020/2021/2022 General Physics Sequence
- PHYS 2110 and PHYS 2120 Technical Physics I and II – Calculus Based

*Choose ECON 2210 if concentration is Information Systems*

**NOTE:** that the following courses are for non-science majors and do not count for Computer Science majors: BIOL 1010/1011, BIOL 1020/1021, CHEM 1000, CHEM 1030, PHYS 1030

* Choose ECON 2210 if concentration is Information Systems
### Catalog Year 2010-2011

#### >>> Computer Science Concentration <<<

**Major Requirements**

**Concentration Courses (60 Hours)**

*Courses are not listed in order to be taken*

- [ ] CSCI 1200 Adventures in Computing (3)
- [ ] CSCI 1250 Intro. to Computer Science I (4) \([T]\)
- [ ] CSCI 1260 Intro. to Computer Science II (4)
- [ ] CSCI 1510 Student in University (3) \([W]\)
- [ ] CSCI 2020 Fundamentals of Database (3)
- [ ] CSCI 2150 Computer Organization (4)
- [ ] CSCI 2160 Assembly Language (4)
- [ ] CSCI 2210 Data Structures (4)
- [ ] CSCI 2230 File Processing (4)
- [ ] CSCI 3250 Software Engineering I (3) \([W]\)
- [ ] CSCI 3350 Software Engineering II (3) \([O]\)
- [ ] CSCI 3400 Networking Fundamentals (3) \([T]\)
- [ ] CSCI 4717 Computer Architecture (3)
- [ ] CSCI 4727 Operating Systems (3)
- [ ] APPROVED CSCI ______ major elective (3)
- [ ] APPROVED CSCI ______ major elective (3)
- [ ] APPROVED CSCI ______ major elective (3)
- [ ] APPROVED CSCI ______ major elective (3)

**Other Major Requirements (21 Hours)**

- [ ] MATH 1530 Probability & Stats (3)  
  (also satisfies Gen. Ed. requirement)
- [ ] CSCI 1900 Math for Comp. Science (3)
- [ ] MATH 1910 Calculus I (4)
- [ ] MATH 1920 Calculus II (4)
- [ ] MATH 2010 Linear Algebra (3)
- [ ] Science (4) ____________________
  (one additional lab science)

**Free Electives: (5 hours)**

- [ ] ________________________________
- [ ] ________________________________

*Two major electives must be selected at the 3XXX/4XXX level. Major electives and any course substitutions must be approved by the student’s advisor. Please note that Cooperative Education, Internship courses, and any 1100 series courses (1100, 1101, 1105, etc) DO NOT count towards Approved Major Electives.*

- CSCI 1510 should be taken during the first semester of the freshman year.
- CSCI 1200 should be taken before any other programming courses. Students who have taken CSCI 1250 are not eligible to take CSCI 1200.
- If, for any reason, you do not take or do not pass CSCI 1510 or CSCI 1200, you must take another approved CSCI major elective in its place.
<table>
<thead>
<tr>
<th>CATALOG YEAR 2010-2011</th>
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<tbody>
<tr>
<td>SUGGESTED 4-YEAR SCHEDULE</td>
</tr>
<tr>
<td>COMPUTER SCIENCE CONCENTRATION</td>
</tr>
</tbody>
</table>

**FRESHMAN YEAR**

<table>
<thead>
<tr>
<th>First Semester</th>
<th>Second Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSCI 1100 Using Information Technology* ........ 3</td>
<td>CSCI 1250 Introduction to Computer Science I... 4</td>
</tr>
<tr>
<td>CSCI 1200 Adventures in Computing** .............. 3</td>
<td>CSCI 1900 Math for Computer Science ............. 3</td>
</tr>
<tr>
<td>CSCI 1510 Student in University ................. 3</td>
<td>HIST 2010 ........................................ 3</td>
</tr>
<tr>
<td>ENGL 1010 Critical Reading &amp; Exp. Writing ...... 3</td>
<td>ENGL 1020 Critical Thinking &amp; Argumentation .... 3</td>
</tr>
<tr>
<td>SPCH 1300, 2300, or 2230 ......................... 3</td>
<td>Humanities ..................................... 3</td>
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</tbody>
</table>

**SOPHOMORE YEAR**

<table>
<thead>
<tr>
<th>First Semester</th>
<th>Second Semester</th>
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</thead>
<tbody>
<tr>
<td>CSCI 1260 Introduction to Computer Science II .. 4</td>
<td>CSCI 2160 Assembly Language ...................... 4</td>
</tr>
<tr>
<td>CSCI 2020 Fundamental of Database ............... 3</td>
<td>CSCI 2210 Data Structures ......................... 4</td>
</tr>
<tr>
<td>CSCI 2150 Computer Organization .................. 4</td>
<td>HIST 2020 U.S. Since 1877 ......................... 3</td>
</tr>
<tr>
<td>MATH 1910 Calculus I ............................. 3</td>
<td>MATH 1920 Calculus II ............................. 4</td>
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</table>

**JUNIOR YEAR**

<table>
<thead>
<tr>
<th>First Semester</th>
<th>Second Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSCI 2230 File Processing ........................ 4</td>
<td>CSCI 3250 Software Engineering I ............... 3</td>
</tr>
<tr>
<td>CSCI 3400 Networking Fundamentals ................ 3</td>
<td>CSCI major elective ............................. 3</td>
</tr>
<tr>
<td>MATH 2010 Linear Algebra .......................... 3</td>
<td>MATH 1530 Probability &amp; Statistics ............... 3</td>
</tr>
<tr>
<td>Natural Science (1st of 2-semester sequence) .... 4</td>
<td>Natural Science (2nd of 2-semester sequence)..... 4</td>
</tr>
<tr>
<td>Social/Behavioral Sciences ......................... 3</td>
<td>Literature ...................................... 3</td>
</tr>
<tr>
<td></td>
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</table>

**SENIOR YEAR**

<table>
<thead>
<tr>
<th>First Semester</th>
<th>Second Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSCI 3350 Software Engineering II ............... 3</td>
<td>CSCI 4727 Operating Systems ..................... 3</td>
</tr>
<tr>
<td>CSCI 4717 Computer Architecture .................. 3</td>
<td>CSCI major elective ............................. 3</td>
</tr>
<tr>
<td>CSCI major elective ................................ 3</td>
<td>Fine Arts ....................................... 3</td>
</tr>
<tr>
<td>CSCI major elective ................................ 3</td>
<td>Free elective .................................... 2</td>
</tr>
<tr>
<td>Natural Science .................................... 4</td>
<td>Social/Behavioral Sciences ....................... 3</td>
</tr>
<tr>
<td></td>
<td>16</td>
</tr>
</tbody>
</table>

* If the UIT proficiency exam is taken and passed, 3 credit hours of free electives should be added. If CSCI 1100 is taken and completed with a “C-“ or better, it may take the place of 3 credit hours of free electives.

** If the CSCI 1200 proficiency exam is taken and passed, 3 credit hours of CSCI electives should be added.
Catalog Year 2010-2011
>>> Information Systems Concentration <<<

Major Requirements

Concentration Courses (56 Hours)

- CSCI 1200 Adventures in Computing (3)
- CSCI 1250 Intro. to Computer Science I (4) [T]
- CSCI 1260 Intro. to Computer Science II (4)
- CSCI 1510 Student in University (3) [W]
- CSCI 1710 Essentials of Web Development (3)
- CSCI 2020 Fundamentals of Database (3)
- CSCI 2150 Computer Organization (4)
- CSCI 2210 Data Structures (4)
- CSCI 2200 Introduction to UNIX (3)
- CSCI 2910 Server-Side Web Programming (4)
- CSCI 3250 Software Engineering I (3) [W]
- CSCI 3350 Software Engineering II (3) [O]
- CSCI 3400 Networking Fundamentals (3) [T]
- CSCI 4127 Database Mgmt. Systems (3) [T]
- CSCI 4417 Intro. to System Administration (3)
- APPROVED CSCI ___ major elective (3)
- APPROVED CSCI ___ major elective (3)

Other Major Requirements (9-10 Hours)

- MATH 1530 (3) (satisfies Gen. Ed. requirement)
- MATH 1840 Analytic Geom. & Diff. Calc. (3), MATH 1910 Calculus I (4) OR
  MATH 1850 Integral Calculus (3)
- CSCI 1900 Math for Computer Science (3)

Information Systems Emphasis (18 - 21 Hours)

- Management Emphasis
- Accountancy Emphasis

Free Electives: (3 hours)

Information Systems Emphasis Areas

All students in the Information Systems Concentration must complete one of the following two emphases. These are intended to prepare the student to "function effectively as an IS professional" in a specific business area.

<table>
<thead>
<tr>
<th>Management Emphasis</th>
<th>Accountancy Emphasis</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON 2210** - Principles of Economics I</td>
<td>ACCT 2010 - Principles of Accounting I (3)</td>
</tr>
<tr>
<td>ACCT 2010 - Principles of Accounting I (3)</td>
<td>ACCT 2020 - Principles of Accounting II (3)</td>
</tr>
<tr>
<td>MGMT 3000 - Organizational Behavior &amp; Mgmt (3)</td>
<td>ACCT 3010 - Financial Accounting I (3)</td>
</tr>
<tr>
<td>MGMT 4010 - Advanced Organizational Behavior (3)</td>
<td>ACCT 3110 - Management Accountancy (3)</td>
</tr>
<tr>
<td>MGMT 4020 - Organizational Theory &amp; Dev (3)</td>
<td>Two approved ACCT electives (6) (check with advisor)</td>
</tr>
<tr>
<td>Two approved MGMT electives (6) (check with advisor)</td>
<td>Must make a “C” or better in each course.</td>
</tr>
</tbody>
</table>

** also satisfies a General Education Core requirement

Major Electives and any course substitutions must be approved by the student’s advisor. Please note that Cooperative Education, Internship courses, and any 1100 series courses (1100, 1101, 1105, etc) DO NOT count towards Approved Major Electives.

- CSCI 1510 should be taken during the first semester of the freshman year.
- CSCI 1200 should be taken before any other programming courses. Students who have taken CSCI 1250 are not eligible to take CSCI 1200.
- If for any reason you do not take or do not pass CSCI 1510 or CSCI 1200, you must take another approved CSCI major elective in its place.
Catalog Year 2010-2011
Prerequisite Tree – Major Courses
Information Systems Science (IS) Concentration

CSCI 1510
Student in University

CSCI 1710
WWW Design & Creation

CSCI 2020
Fund. Of DB.

CSCI 2910
Server Side Web Programming

CSCI 4127
DB Mgmt. Systems I

CSCI 1200
Advances In Computing

CSCI 1250
Intro to CSCI I

CSCI 1260
Intro to CSCI II

CSCI 2150
Computer Organization

CSCI 2210
Data Structures

CSCI 2200
Intro to Unix

CSCI 2200
Intro to Unix

CSCI 3250
Software Engineering I

CSCI 3350
Software Engineering

CSCI 3400
Network Fundamental

CSCI 4417
System Administration
Catalog Year 2011-2012

>>> Information Systems Concentration <<<

Major Requirements ***PENDING APPROVAL***

This concentration course sequence is pending final approval and is subject to change. See advisor for further details.

Concentration Courses (61 Hours)

(Courses are not listed in order to be taken)

☐ CSCI 1250 Intro. to Computer Science I (4) [T]
☐ CSCI 1260 Intro. to Computer Science II (4)
☐ CSCI 1510 Student in University (3) [W]
☐ CSCI 1710 Essentials of Web Development (3)
☐ CSCI 2150 Computer Organization (4)
☐ CSCI 2020 Fundamentals of Database (3)
☐ CSCI 2300 Information Security (3)
☐ CSCI 2910 Server-Side Web Programming (4)
☐ CSCI 3250 Software Engineering I (3) [O]
☐ CSCI 3350 Software Engineering II (3) [W]
☐ CSCI 3400 Networking Fundamentals (3) [T]
☐ CSCI 3720 Fundamentals of Business IS (3)
☐ CSCI 4127 Database Advanced Topics (3) [T]
☐ CSCI 4757 IS Implementation (3)
☐ CSCI 4767 Enterprise Programming (3)
☐ CSCI 4770 IS Strategy and Management (3)
☐ CSCI ___ or emph. approved major elective (3)
☐ CSCI ___ approved major elective (3)
☐ CSCI ___ approved major elective (3)

Other Major Requirements (6-7 Hours)

☐ MATH 1530 (satisfies Gen. Ed. requirement)
☐ MATH 1840 Analytic Geom. & Diff. Calc. (3) or MATH 1910 Calculus I (4) or MATH 1850 Integral Calculus (3)
☐ CSCI 1900 Math for Computer Science (3)

Information Systems Emphasis (15 Hours)

☐ ________________________________
☐ ________________________________
☐ ________________________________
☐ ________________________________

Free Elective: (3 hours)

☐ ________________________________

Students desiring a management or accountancy minor are encouraged to use one program elective for the additional course required by the minor.

Information Systems Emphasis Areas

All students in the Information Systems Concentration must complete one of the following emphases. These are intended to prepare the student to function effectively as an IS professional in a specific business area.

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<td>MGMT 3000 - Organizational Behavior &amp; Mgmt (3)</td>
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<tr>
<td>MGMT 4010 - Advanced Organizational Behavior (3)</td>
<td>MGMT 4010 - Advanced Organizational Behavior (3)</td>
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<tr>
<td>or MGMT 4030 - Current Mgmt Issues (3)</td>
<td>or MGMT 4030 - Current Mgmt Issues (3)</td>
</tr>
<tr>
<td>MGMT 4020 - Organizational Theory &amp; Dev (3)</td>
<td>MGMT 4020 - Organizational Theory &amp; Dev (3)</td>
</tr>
</tbody>
</table>

**ECON 2210 should be taken as one of the Social/Behavioral Science classes required in General Education Requirements**
CATALOG YEAR 2010-2011
SUGGESTED 4-YEAR SCHEDULE
INFORMATION SYSTEMS CONCENTRATION

FRESHMAN YEAR

<table>
<thead>
<tr>
<th>First Semester</th>
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<tbody>
<tr>
<td>CSCI 1100 Using Information Technology*</td>
<td>3</td>
</tr>
<tr>
<td>CSCI 1200 Adventures in Computing**</td>
<td>3</td>
</tr>
<tr>
<td>CSCI 1510 Student in University</td>
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<tr>
<td>ENGL 1010 Critical Reading &amp; Exp. Writing</td>
<td>3</td>
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<tr>
<td>SPCH 1300, 2300, or 2320</td>
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<table>
<thead>
<tr>
<th>Second Semester</th>
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<tbody>
<tr>
<td>CSCI 1250 Introduction to Computer Science I</td>
<td>4</td>
</tr>
<tr>
<td>CSCI 1710 Essentials of Web Development</td>
<td>3</td>
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<td>CSCI 1900 Math for Computer Science</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 1020 Critical Thinking &amp; Argumentation</td>
<td>3</td>
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<tr>
<td>Social/Behavioral Science</td>
<td>3</td>
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<td>16</td>
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SOPHOMORE YEAR

<table>
<thead>
<tr>
<th>First Semester</th>
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<tbody>
<tr>
<td>CSCI 1260 Introduction to Computer Science II</td>
<td>4</td>
</tr>
<tr>
<td>CSCI 2200 Fundamentals of Database</td>
<td>3</td>
</tr>
<tr>
<td>CSCI 2150 Computer Organization</td>
<td>4</td>
</tr>
<tr>
<td>HIST 2010 U.S. to 1877</td>
<td>3</td>
</tr>
<tr>
<td>MATH 1840 Analytic Geometry &amp; Differ Calculus or Math 1910 Calculus I</td>
<td>3-4</td>
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<table>
<thead>
<tr>
<th>Second Semester</th>
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<tbody>
<tr>
<td>CSCI 2200 Introduction to UNIX</td>
<td>3</td>
</tr>
<tr>
<td>CSCI 2210 Data Structures</td>
<td>4</td>
</tr>
<tr>
<td>CSCI 2910 Server-Side Web Programming</td>
<td>4</td>
</tr>
<tr>
<td>MATH 1530 Probability &amp; Statistics</td>
<td>3</td>
</tr>
<tr>
<td>HIST 2020 U.S. Since 1877</td>
<td>3</td>
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JUNIOR YEAR

<table>
<thead>
<tr>
<th>First Semester</th>
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<tbody>
<tr>
<td>CSCI 3250 Software Engineering I</td>
<td>3</td>
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<tr>
<td>CSCI 3400 Networking Fundamentals</td>
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<td>Humanities</td>
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<tr>
<td>Natural science (1st of 2-semester sequence)</td>
<td>4</td>
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<tr>
<td>Course from Info Systems Area of Emphasis</td>
<td>3</td>
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<table>
<thead>
<tr>
<th>Second Semester</th>
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<tbody>
<tr>
<td>CSCI 3350 Software Engineering II</td>
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<tr>
<td>Course from Info Systems Area of Emphasis</td>
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<td>Course from Info Systems Area of Emphasis</td>
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<tr>
<td>Natural science (2nd of 2-semester sequence)</td>
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<tr>
<td>Social/Behavioral Sciences</td>
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SENIOR YEAR

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>CSCI 4127 Database Mgmt. Systems I</td>
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<tr>
<td>CSCI major elective</td>
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<td>Course from Info Systems Area of Emphasis</td>
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<td>Course from Info Systems Area of Emphasis</td>
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<tr>
<td>Literature</td>
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<table>
<thead>
<tr>
<th>Second Semester</th>
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<tbody>
<tr>
<td>CSCI 4417 Introduction to System Adm.</td>
<td>3</td>
</tr>
<tr>
<td>CSCI major elective</td>
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<tr>
<td>Course from Info Systems Area of Emphasis</td>
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<tr>
<td>Course from Info Systems Area of Emphasis</td>
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<tr>
<td>Fine Arts</td>
<td>3</td>
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<tr>
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</tbody>
</table>

* If the UIT proficiency exam is taken and passed, 3 credit hours of free electives should be added. If CSCI 1100 is taken and completed with a “C-” or better, it may take the place of 3 credit hours of free electives.

** If the CSCI 1200 proficiency exam is taken and passed, 3 credit hours of CSCI electives should be added.
# Catalog Year 2010-2011

## >>> Information Technology Concentration <<<

### Major Requirements

#### Common Core Courses (70 Hours)

(Courses are not listed in order to be taken)

- [ ] CSCI 1200 Adventures in Computing (3)
- [ ] CSCI 1250 Intro to Computer Science I (4) \([T]\)
- [ ] CSCI 1260 Intro to Computer Science II (4)
- [ ] CSCI 1510 Student in University (3) \([W]\)
- [ ] CSCI 1710 Essentials of Web Development (3)
- [ ] CSCI 2020 Fundamentals of Database (3)
- [ ] CSCI 2150 Computer Organization (4)
- [ ] CSCI 2200 Introduction to UNIX (3)
- [ ] CSCI 2300 Essentials of Information Security (3)
- [ ] CSCI 2910 Server-Side Web Programming (4)
- [ ] CSCI 3250 Software Engineering I (3) \([W]\)
- [ ] CSCI 3350 Software Engineering II (3) \([O]\)
- [ ] CSCI 3400 Networking Fundamentals (3) \([T]\)
- [ ] CSCI 4127 Database Mgmt. Systems (3)
- [ ] CSCI 4217 Ethical Issues in Computing (3) \([W]\)
- [ ] CSCI 4417 Intro to System Administration (3)
- [ ] CSCI 4927 Human Computer Interaction (3)
- [ ] CSCI 4800 Senior Project in IT (3)
- [ ] Approved Major Elective _______________ (3)
- [ ] Approved Major Elective _______________ (3)
- [ ] Approved Major Elective _______________ (3)
- [ ] Approved Major Elective _______________ (3)

(At least two electives must be CSCI electives and two at the 3XXX/4XXX level.)

#### Other Major Requirements (6 Hours)

- [ ] MATH 1530 Probability & Stats (3)  
  (also satisfies Gen. Ed. requirement)
- [ ] CSCI 1900 Math for Comp. Science (3)

#### Free Electives (10 Hours)

- [ ]
- [ ]
- [ ]

### Web Emphasis

Students who wish to complete the IT concentration with an emphasis in Web Development should include CSCI 1720 (World Wide Web Advanced) and CSCI 3110 (Advanced Topics in Web Development) as two of their Approved Major Electives.

**Major Electives and any course substitutions must be approved by the student’s advisor. Please note that Cooperative Education, Internship courses, and any 1100 series courses (1100, 1101, 1105, etc) DO NOT count towards Approved Major Electives.**

- CSCI 1510 should be taken during the first semester of the freshman year.
- CSCI 1200 should be taken before any other programming courses. Students who have taken CSCI 1250 are not eligible to take CSCI 1200.
- If for any reason you do not take or do not pass CSCI 1510 or CSCI 1200, you must take another approved CSCI major elective in its place.
Catalog Year 2010-2011
Prerequisite Tree – Major Courses
Information Technology (IT) Concentration

CSCI 1200 Adventures in Computing

CSCI 1900 Math for Comp.

CSCI 2150 Computer Organization

CSCI 2200 Intro to Unix

CSCI 3400 Network Fundamentals

CSCI 4417 System Administration

Senior Status in CSCI and Within Two Semesters of Graduation

CSCI 4800 Senior Capstone

CSCI 1250 Intro to CSCI I

CSCI 1260 Intro to CSCI II

CSCI 1710 WWW Design

CSCI 1720 WWW Design (elective)

CSCI 2020 Fund. Of DB.

CSCI 2200 Intro to Unix

CSCI 2300 Essentials of Info Sec.

CSCI 2910 Server Side Web Programming

CSCI 4127 DB Mgmt. Systems I

CSCI 3250 Software Engineering

CSCI 3350 Software Engineering II

CSCI 4217 Ethical Issues

CSCI 4927 HCI

CSCI 1100 UIT

CSCI 1510 Student in University

CSCI 1250 Intro to CSCI I

CSCI 1710 WWW Design

CSCI 1260 Intro to CSCI II

CSCI 2020 Fund. Of DB.

CSCI 2910 Server Side Web Programming

CSCI 3250 Software Engineering

CSCI 4217 Ethical Issues

CSCI 4927 HCI
CATALOG YEAR 2010-2011
SUGGESTED 4-YEAR SCHEDULE
INFORMATION TECHNOLOGY CONCENTRATION

FRESHMAN YEAR

First Semester
CSCI 1100 Using Information Technology .* ........ 3
CSCI 1200 Adventures in Computing ** ............ 3
CSCI 1510 Student in University ...................... 3
CSCI 1710 Essentials of Web Development .......... 3
ENGL 1010 Critical Reading & Exp. Writing ...... 3

Second Semester
CSCI 1250 Introduction to Computer Science I .... 4
CSCI 1900 Math for Computer Science .............. 3
ENGL 1020 Critical Thinking & Argumentation ... 3
Humanities ........................................ 3
SPCH 1300, 2300, or 2320 ........................ 3

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16

SOPHOMORE YEAR

First Semester
CSCI 1260 Introduction to Computer Science II ... 4
CSCI 2020 Fundamentals of Database ............... 3
CSCI 2150 Computer Organization .................. 4
HIST 2010 U.S. to 1877 ................................ 3
MATH 1530 Probability & Statistics ............... 3

Second Semester
CSCI 2200 Introduction to UNIX ..................... 3
CSCI 2300 Essentials of Information Security .... 3
CSCI 2910 Server Side Web Programming .......... 4
HIST 2020 U.S. Since 1877 .......................... 3
Literature ......................................... 3

17
16

JUNIOR YEAR

First Semester
CSCI 3110 Advanced Topics in Web Dev*** ....... 3
CSCI 3250 Software Engineering I ............... 3
CSCI 3400 Networking Fundamentals ............. 3
Natural science (1st of 2-semester sequence) .... 4
Social/Behavioral Sciences ....................... 3

Second Semester
CSCI 3350 Software Engineering II .............. 3
Guided Major Elective ............................ 3
Social/Behavioral Sciences ....................... 3
Natural science (2nd of 2-semester sequence) .... 4
Fine Arts ......................................... 3

16
16

SENIOR YEAR

First Semester
CSCI 4127 Database Mgmt. Systems I ............ 3
CSCI 4217 Ethical Issues in Computing ............ 3
CSCI 4417 Introduction to System Adm .......... 3
Guided Major Elective ............................ 3
Free Elective .................................... 3

Second Semester
CSCI 4800 Senior Project in IT .................... 3
CSCI 4927 Human Computer Interaction ........ 3
Guided Major Elective ............................ 3
Free Electives .................................. 4

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* If the UIT proficiency exam is taken and passed, 3 credit hours of free electives should be added. If CSCI 1100 is taken and completed with a “C-“ or better, it may take the place of 3 credit hours of free electives.

** If the CSCI 1200 proficiency exam is taken and passed, 3 credit hours of CSCI electives should be added.

*** General Emphasis will replace this course with Guided Major Elective.
Advisement is required for all CSCI majors from the time they enter the major until graduation. CSCI majors must schedule a meeting with their assigned advisor prior to registering each semester. Only then will the “registration hold” be removed by the advisor so that the student may register. All new CSCI majors are assigned to Mr. Todd Franklin for their first two semesters and then they are reassigned to another faculty advisor. 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.

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