Department of Computer and Information Sciences

UNDERGRADUATE
STUDENT ADVISEMENT BOOKLET

Academic Year
2008-2009

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
2008-2009 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 object-oriented programming and design, web development, database, and system administration. The concentration also requires a minor in management or accountancy. This concentration is designed for students who wish to apply their knowledge in web development, database management, network administration, or within their minor area, and for those who plan graduate work in certain areas of management or information science.

INFORMATION TECHNOLOGY (IT) CONCENTRATION – The IT concentration supplements the CSCI core curriculum with courses in web development, object-oriented programming, database, and system administration. The concentration also offers a web emphasis or general emphasis providing the opportunity to tailor course work. This concentration is designed for students who wish to apply their knowledge in web development, database management, network administration, and for those who plan graduate work in applied computer science or 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, including the General Education Proficiency Requirements (see below);
- meet all CSCI Common Core requirements;
- 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; and
- achieve a grade of “C-” or better in all CSCI major requirements, including both common core and concentration specific-courses; and achieve a grade of “C-” or better in the required freshman English courses.

Proficiency/Intensive Course Requirements

WRITING   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   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](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 site ([http://www.cs.etsu.edu/](http://www.cs.etsu.edu/)) during the two weeks preceding registration each semester.
### 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)

#### 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)
- MUSC 1030 Introduction to Music (3)
- MUSC 1035 History of Jazz (3)
- DANC 3500 Dance as Human Experience (3)
- THEA 1030 Introduction to Theater (3)
- HUMT 2310 Humanities I (to 1600) (3)
- HUMT 2320 Humanities II (1600 - ) (3)

#### SOCIAL/BEHAVIORAL SCIENCES: 6 credits *(select two)*
- ECON 1050 Economics & Society (3) or ECON 2210 Principles of Economics I (3)*
- GEOS 1100 Introduction to Cultural Geography (3)
- HDAL 2310 Developmental Lifespan Psychology (3)
- PSY 1110 Political Life (3) [W]/[O]
- PSCI 1120 Introduction to American Government (3)
- PSY 1310 Introduction to Psychology (3)
- SOAA 1020 Introduction to Sociology (3)
- ANTH 1240 Introduction to Cultural Anthropology (3)
- SOAA 2020 Social Problems (3) [W]
- SRVL 1020 Introduction to Service Learning (3) [W]/[O]
- WMST 2010 Introduction to Women's Studies (3) [W]

#### 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 and GEOL 1050 Physical and Historical Geology
- HSCI 2010/2011 and HSCI 2020/2021 Anatomy & Physiology I and II
- PHYS 2110 and PHYS 2120 Technical Physics I and II – Calculus Based

*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 and choosing the Management Emphasis
Catalog Year 2008-2009

>>> Computer Science Concentration <<<

Major Requirements

Concentration Courses (60 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 2150 Computer Organization (4)
- CSCI 2160 Assembly Language (4)
- CSCI 2020 Fundamentals of Database (3)
- CSCI 2210 Data Structures (4)
- CSCI 2230 File Processing (4)
- CSCI 3250 Software Engineering I (3) \([O]\)
- CSCI 3350 Software Engineering II (3) \([W]\)
- CSCI 3400 Networking Fundamentals (3) \([T]/[W]\)
- CSCI 4717 Computer Architecture (3)
- CSCI 4727 Operating Systems (3) \([W – until fall 2008]\)
- CSCI _____ major elective (3)
- CSCI _____ major elective (3)
- CSCI _____ major elective (3)
- CSCI _____ major elective (3)

Other Major Requirements (18 Hours)

- MATH 1530 or MATH 1840 (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)

- __________________________
- __________________________
- __________________________

All CSCI Major Electives must be chosen from the Category A and Category B lists below.
At least one CSCI Major Elective must be selected from Category A, at least one selected from Category B,
and two selected at the 3XXX/4XXX level. Please note that Cooperative Education and Internship courses DO NOT count towards CSCI Major Electives.

Major Electives Category A: CSCI 1270, CSCI 2200, CSCI 2910, CSCI 3800, CSCI 4097*, CSCI 4910*, CSCI 4956*, CSCI 4957*

Major Electives Category B: CSCI 1710, CSCI 1720, CSCI 2300, CSCI 2956, CSCI 3110, CSCI 4127, CSCI 4157, CSCI 4217, CSCI 4227, CSCI 4317, CSCI 4417, CSCI 4517, CSCI 4527, CSCI 4800, CSCI 4857, CSCI 4927, MATH 4257, MATH 4267, CSCI 4097*, CSCI 4910*, CSCI 4956*, CSCI 4957* (* This course will count towards Category A or Category B according to the topic being offered at the time it is taken. Please select this course with the help of your advisor to ensure it will count towards the Category you need.)

- If, for any reason, you do not take or do not pass CSCI 1510, you must take another approved CSCI major elective in its place.
# CATALOG YEAR 2008-2009
# SUGGESTED 4-YEAR SCHEDULE
## COMPUTER SCIENCE CONCENTRATION

### FRESHMAN YEAR

<table>
<thead>
<tr>
<th>First Semester</th>
<th>Second Semester</th>
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<tbody>
<tr>
<td>CSCI 1100 Using Information Technology*</td>
<td>CSCI 1250 Introduction to Computer Science I...</td>
</tr>
<tr>
<td>CSCI 1200 Adventures in Computing**</td>
<td>CSCI 1900 Math for Computer Science........</td>
</tr>
<tr>
<td>CSCI 1510 Student in University</td>
<td>HIST 2010 ........................................</td>
</tr>
<tr>
<td>ENGL 1010 Critical Reading &amp; Exp. Writing</td>
<td>ENGL 1020 Critical Thinking &amp; Argumentation</td>
</tr>
<tr>
<td>SPCH 1300, 2300, or 2230...</td>
<td>Humanities .......................................</td>
</tr>
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<td>** Total: 15 **</td>
<td>** Total: 16 **</td>
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### SOPHOMORE YEAR

<table>
<thead>
<tr>
<th>First Semester</th>
<th>Second Semester</th>
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<tbody>
<tr>
<td>CSCI 1260 Introduction to Computer Science II...</td>
<td>CSCI 2160 Assembly Language.....................</td>
</tr>
<tr>
<td>CSCI 2020 Fundamental of Database</td>
<td>CSCI 2210 Data Structures .......................</td>
</tr>
<tr>
<td>CSCI 2150 Computer Organization</td>
<td>HIST 2020 U.S. Since 1877........................</td>
</tr>
<tr>
<td>MATH 1910 Calculus I</td>
<td>MATH 1920 Calculus II ........</td>
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<tr>
<td>** Total: 15 **</td>
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### JUNIOR YEAR

<table>
<thead>
<tr>
<th>First Semester</th>
<th>Second Semester</th>
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<tbody>
<tr>
<td>CSCI 2230 File Processing</td>
<td>CSCI 3250 Software Engineering I ...</td>
</tr>
<tr>
<td>CSCI 3400 Networking Fundamentals</td>
<td>CSCI major elective ..................</td>
</tr>
<tr>
<td>MATH 2010 Linear Algebra</td>
<td>MATH 1530 Probability &amp; Statistics ........</td>
</tr>
<tr>
<td>Natural Science (1st of 2-semester sequence)</td>
<td>Natural Science (2nd of 2-semester sequence)</td>
</tr>
<tr>
<td>Social/Behavioral Sciences</td>
<td>Literature ........</td>
</tr>
<tr>
<td>** Total: 17 **</td>
<td>** Total: 16 **</td>
</tr>
</tbody>
</table>

### SENIOR YEAR

<table>
<thead>
<tr>
<th>First Semester</th>
<th>Second Semester</th>
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</thead>
<tbody>
<tr>
<td>CSCI 3350 Software Engineering II............</td>
<td>CSCI 4727 Operating Systems .................</td>
</tr>
<tr>
<td>CSCI 4717 Computer Architecture</td>
<td>CSCI major elective ..................</td>
</tr>
<tr>
<td>CSCI major elective</td>
<td>CSCI major elective ..................</td>
</tr>
<tr>
<td>CSCI major elective</td>
<td>Fine Arts ........</td>
</tr>
<tr>
<td>Natural Science...</td>
<td>Social/Behavioral Sciences ........</td>
</tr>
<tr>
<td>** Total: 16 **</td>
<td>** Total: 14 **</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 2008-2009

>>> Information Systems Concentration <<<

Major Requirements

Concentration Courses (56 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 2150 Computer Organization (4)
☐ CSCI 2020 Fundamentals of Database (3)
☐ CSCI 2210 Data Structures (4)
☐ CSCI 2200 Introduction to UNIX (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]/[W]
☐ CSCI 4127 Database Mgmt. Systems I (3) /[T/
☐ CSCI 4417 Intro. to System Administration (3)
☐ CSCI ___ major elective, Category A (3)
☐ CSCI ___ major elective, Category B (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)
☐ CSCI 1900 Math for Computer Science (3)

Information Systems Emphasis (18 Hours)

Free Electives: (3 hours)

Choose CSCI Major Electives from the lists below - one must be selected from Category A and one selected from Category B. Please note that Cooperative Education and Internship courses DO NOT count towards CSCI Major Electives.

Major Electives Category A: CSCI 1270, CSCI 2160, CSCI 3800, CSCI 4097*, CSCI 4910*, CSCI 4956*, CSCI 4957*

Major Electives Category B: CSCI 1720, CSCI 2230, CSCI 2300, CSCI 2956, CSCI 3110, CSCI 4157, CSCI 4217, CSCI 4227, CSCI 4317, CSCI 4517, CSCI 4527, CSCI 4717, CSCI 4727, CSCI 4800, CSCI 4857, CSCI 4927, MATH 4257, MATH 4267, CSCI 4097*, CSCI 4910*, CSCI 4956*, CSCI 4957*

(* This course will count towards Category A or Category B according to the topic being offered at the time it is taken. Please select this course with the help of your advisor to ensure it will count towards the Category you need.)

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>or MGMT 4030 – Current Mgmt Issues (3)</td>
<td>Two approved ACCT electives (6) (check with advisor)</td>
</tr>
<tr>
<td>MGMT 4020 - Organizational Theory &amp; Dev (3)</td>
<td>Must make a “C” or better in each course.</td>
</tr>
<tr>
<td>Two approved MGMT electives (6) (check with advisor)</td>
<td></td>
</tr>
</tbody>
</table>

** also satisfies a General Education Core requirement

- If, for any reason, you do not take or do not pass CSCI 1200 or CSCI 1510, you must take other approved CSCI major electives in their place.
Catalog Year 2008-2009
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
Client & Server Side

CSCI 4127
DB Mgmt. Systems I

CSCI 3250
Software Engineering I

CSCI 3350
Software Engineering II

CSCI 1200
Adv. In Computing

CSCI 1250
Intro to CSCI I

CSCI 1260
Intro to CSCI II

CSCI 2210
Data Structures

CSCI 2200
Intro to Unix

CSCI 2200
Intro to Unix

CSCI 2150
Computer Organization

CSCI 3400
Network Fundamentals

CSCI 1900
Math for Comp. Science

CSCI 2020
Fund. Of DB.

CSCI 3400
Network Fundamentals

CSCI 4417
System Administration
## FRESHMAN YEAR

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<thead>
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<td>CSCI 1260 Introduction to Computer Science II ........ ..........................</td>
<td>CSCI 2200 Introduction to UNIX ..................................</td>
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<tr>
<td>CSCI 3250 Software Engineering I ......................................................</td>
<td>CSCI 3350 Software Engineering II ..........................</td>
</tr>
<tr>
<td>CSCI 3400 Networking Fundamentals ........................................................</td>
<td>Course from Info Systems Area of Emphasis ............</td>
</tr>
<tr>
<td>Humanities ..............................................................................................</td>
<td>Course from Info Systems Area of Emphasis ............</td>
</tr>
<tr>
<td>Natural science (1st of 2-semester sequence) ........................................</td>
<td>Natural science (2nd of 2-semester sequence) ..........</td>
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<td>Course from Info Systems Area of Emphasis ...........................................</td>
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<tr>
<td>CSCI 4127 Database Mgmt. Systems I ....................................................</td>
<td>CSCI 4417 Introduction to System Adm ........................</td>
</tr>
<tr>
<td>CSCI major elective ................................................................................</td>
<td>CSCI major elective ...............................................</td>
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<tr>
<td>Course from Info Systems Area of Emphasis ...........................................</td>
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** If the CSCI 1200 proficiency exam is taken and passed, 3 credit hours of CSCI electives should be added.
Catalog Year 2008-2009

>>> Information Technology Concentration <<<

Major Requirements

<table>
<thead>
<tr>
<th>Common Core Courses (70 Hours)</th>
<th>Other Major Requirements (3 Hours)</th>
</tr>
</thead>
<tbody>
<tr>
<td>(Courses are not listed in order to be taken)</td>
<td>MATH 1530 or MATH 1840 or MATH 1910 (satisfies Gen. Ed. requirement)</td>
</tr>
<tr>
<td>CSCI 1200 Adventures in Computing (3)</td>
<td>CSCI 1900 Math for Comp. Science (3)</td>
</tr>
<tr>
<td>CSCI 1250 Intro to Computer Science I (4)</td>
<td></td>
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<tr>
<td>CSCI 1260 Intro to Computer Science II (4)</td>
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<td>CSCI 1510 Student in University (3)</td>
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<tr>
<td>CSCI 1710 Essentials of Web Development (3)</td>
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<tr>
<td>CSCI 2020 Fundamentals of Database (3)</td>
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<tr>
<td>CSCI 2150 Computer Organization (4)</td>
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<td>CSCI 2200 Introduction to UNIX (3)</td>
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<tr>
<td>CSCI 2300 Essentials of Information Security (3)</td>
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<tr>
<td>CSCI 2910 Server-Side Web Programming (4)</td>
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<tr>
<td>CSCI 3250 Software Engineering I (3)</td>
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<td>CSCI 3350 Software Engineering II (3)</td>
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<tr>
<td>CSCI 3400 Networking Fundamentals (3)</td>
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<td>CSCI 4217 Ethical Issues in Computing (3)</td>
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<td>CSCI 4417 Intro to System Administration (3)</td>
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<td>CSCI 4927 Human Computer Interaction (3)</td>
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<td>CSCI 4800 Senior Project in IT (3)</td>
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<tr>
<td>Major Electives for Concentration Emphasis (15)</td>
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<tr>
<td>(see below)</td>
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<table>
<thead>
<tr>
<th>Web Emphasis</th>
<th>OR</th>
<th>General Emphasis</th>
</tr>
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<tbody>
<tr>
<td>CSCI 3110 Advanced Topics in Web Dev. (3)</td>
<td></td>
<td>CSCI 4127 Database Mgmt. Systems I (3)</td>
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<td>CSCI 4127 Database Mgmt. Systems I (3)</td>
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<td>Approved Major Elective _____________ (3)</td>
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</tbody>
</table>

(At least one elective must be a CSCI elective and one at the 3XXX/4XXX level.)

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

All Approved Major Electives must be chosen from the list below. Please note that Cooperative Education and Internship courses DO NOT count towards Approved Major Electives.

Information Technology Concentration Electives
CSCI 1720, CSCI 2160, CSCI 2210, CSCI 2956, CSCI 3110, CSCI 4227, CSCI 4317, CSCI 4517, CSCI 4527, CSCI 4097, CSCI 4910, CSCI 4956, CSCI 4957, ARTA 1204, ARTA 2200, CJCR 1500, CJCR 2600, CJCR 3650, CJCR 4650, CJCR 4680, ADVR 2070, ADVR 3240, ENGL 4100, ENGL 3100,

- If, for any reason, you do not take or do not pass CSCI 1200 or CSCI 1510, you must take other approved 3 hour CSCI course(s) in their place.
Catalog Year 2008-2009
Prerequisite Tree –Major Courses
Information Technology (IT) Concentration

CSCI 1200  
Adv. In Computing

CSCI 1250  
Intro to CSCI I

CSCI 1250  
Intro to CSCI I

CSCI 1260  
Intro to CSCI II

CSCI 1710  
WWW Design

CSCI 1720  
WWW Design

CSCI 2150  
Computer Organization

CSCI 2200  
Intro to Unix

CSCI 2200  
Intro to Unix

CSCI 2020  
Fund. Of DB.

CSCI 2020  
Fund. Of DB.

CSCI 2300  
Ess. Info Sec.

CSCI 2910  
Client & Server Side

CSCI 1100  
UIT

CSCI 1100  
UIT

CSCI 1510  
Student in University

CSCI 1510  
Student in University

CSCI 1720  
WWW Design

CSCI 3250  
Software Engineering I

CSCI 3250  
Software Engineering I

CSCI 3350  
Software Engineering II

CSCI 4127  
DB Mgmt. Systems I

CSCI 4127  
DB Mgmt. Systems I

CSCI 4217  
Ethical Issues

CSCI 4927  
HCI

CSCI 1900  
Math for Comp. Science

CSCI 1900  
Math for Comp. Science

CSCI 2150  
Computer Organization

CSCI 2200  
Intro to Unix

CSCI 3400  
Network Fundamentals

CSCI 3400  
Network Fundamentals

CSCI 3400  
Network Fundamentals

CSCI 3400  
Network Fundamentals

CSCI 4417  
System Administration

CSCI 4417  
System Administration

CSCI 4417  
System Administration

Senior Status in CSCI and Within Two Semesters of Graduation

CSCI 4800  
Senior Capstone Technology

CSCI 4800  
Senior Capstone Technology
# INFORMATION TECHNOLOGY CONCENTRATION

## FRESHMAN YEAR

<table>
<thead>
<tr>
<th>First Semester</th>
<th>Second Semester</th>
</tr>
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<tbody>
<tr>
<td>CSCI 1100 Using Information Technology * …… 3</td>
<td>CSCI 1200 Adventures in Computing ** ……. 3</td>
</tr>
<tr>
<td>CSCI 1200 Adventures in Computing ** ……. 3</td>
<td>CSCI 1510 Student in University ……. 3</td>
</tr>
<tr>
<td>CSCI 1510 Student in University ……. 3</td>
<td>CSCI 1710 Essentials of Web Development ……. 3</td>
</tr>
<tr>
<td>CSCI 1710 Essentials of Web Development ……. 3</td>
<td>ENGL 1010 Critical Reading &amp; Exp. Writing ……. 3</td>
</tr>
<tr>
<td>ENGL 1010 Critical Reading &amp; Exp. Writing ……. 3</td>
<td>Humanities ……. 3</td>
</tr>
<tr>
<td></td>
<td>SPCH 1300, 2300, or 2320 ……. 3</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.**

*** General Emphasis will replace this course with Guided Major Elective.

## 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 2200 Introduction to UNIX ……. 3</td>
</tr>
<tr>
<td>CSCI 2020 Fundamentals of Database ……. 3</td>
<td>CSCI 2150 Computer Organization ……. 4</td>
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<td>CSCI 2150 Computer Organization ……. 4</td>
<td>HIST 2010 U.S. to 1877 ……. 3</td>
</tr>
<tr>
<td>HIST 2010 U.S. to 1877 ……. 3</td>
<td>MATH 1530 Probability &amp; Statistics ……. 3</td>
</tr>
<tr>
<td>MATH 1530 Probability &amp; Statistics ……. 3</td>
<td>Humanities ……. 3</td>
</tr>
<tr>
<td></td>
<td>SPCH 1300, 2300, or 2320 ……. 3</td>
</tr>
</tbody>
</table>

## JUNIOR YEAR

<table>
<thead>
<tr>
<th>First Semester</th>
<th>Second Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSCI 3110 Advanced Topics in Web Dev ** ……. 3</td>
<td>CSCI 3250 Software Engineering I ……. 3</td>
</tr>
<tr>
<td>CSCI 3250 Software Engineering I ……. 3</td>
<td>CSCI 3340 Networking Fundamentals ……. 3</td>
</tr>
<tr>
<td>CSCI 3440 Networking Fundamentals ……. 3</td>
<td>CSCI 3500 Natural science (1st of 2-semester sequence) ……. 4</td>
</tr>
<tr>
<td>Natural science (1st of 2-semester sequence) ……. 4</td>
<td>Social/Behavioral Sciences ……. 3</td>
</tr>
<tr>
<td>Social/Behavioral Sciences ……. 3</td>
<td>Fine Arts ……. 3</td>
</tr>
<tr>
<td></td>
<td>SPCH 1300, 2300, or 2320 ……. 3</td>
</tr>
</tbody>
</table>

## SENIOR YEAR

<table>
<thead>
<tr>
<th>First Semester</th>
<th>Second Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSCI 4127 Database Mgmt. Systems I ……. 3</td>
<td>CSCI 4800 Senior Project in IT ……. 3</td>
</tr>
<tr>
<td>CSCI 4217 Ethical Issues in Computing ……. 3</td>
<td>CSCI 4927 Human Computer Interaction ……. 3</td>
</tr>
<tr>
<td>CSCI 4417 Introduction to System Adm. ……. 3</td>
<td>Guided Major Elective ……. 3</td>
</tr>
<tr>
<td>Guided Major Elective ……. 3</td>
<td>Free Electives ……. 4</td>
</tr>
<tr>
<td>Free Elective ……. 3</td>
<td>SPCH 1300, 2300, or 2320 ……. 3</td>
</tr>
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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.
Computer Science/Information Systems (CS/IS) minor track (28 hours)

CSCI 1250  Introduction to Computer Science I  4 credits
CSCI 1260  Introduction to Computer Science II  4
CSCI 1900  Math for Computer Science  3
CSCI 2150  Computer Organization  4
CSCI 2210  Data Structures  4
CSCI ____  Approved CSCI major electives, including at least 6 hours at 3000 level or above; CSCI 1100, 110x, and 1510 may not be included  9

NOTE: The following must be met to satisfy the requirements for a minor in Computer Science/Information Systems:
- A grade of “C-” or better in each course taken for the minor
- A 2.5 GPA of all courses taken for the minor
- Previous experience in Object Oriented programming or successful completion of CSCI 1200 is required before CSCI 1250 can be taken.

Information Technology (IT) minor track (28 hours)

CSCI 1250  Introduction to Computer Science I  4 credits
CSCI 1260  Introduction to Computer Science II  4
CSCI 1900  Math for Computer Science  3
CSCI 1710  Essentials of Web Development  3
CSCI 2020  Fundamentals of Database  3
CSCI 2150  Computer Organization  4
CSCI 2910  Server Side Web Programming  4
CSCI ____  Approved CSCI major elective at 3000 level or above  3

NOTE: The following must be met to satisfy the requirements for a minor in Information Technology:
- A grade of “C-” or better in each course taken for the minor
- A 2.5 GPA of all courses taken for the minor
- Previous experience in Object Oriented programming or successful completion of CSCI 1200 is required before CSCI 1250 can be taken.
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.

Undergraduate Advisement Coordinator
Todd Franklin
Office: 461 Nicks Hall (Old Sherrod Library)
Phone: (423) 439-7413
E-mail: franklit@etsu.edu

Department Chairperson
Terry Countermine
Office: 465 Nicks Hall (Old Sherrod Library)
Phone: (423) 439-8416
E-mail: counter@etsu.edu

Department Assistant Chairperson
Marty Barrett
Office: 463 Nicks Hall (Old Sherrod Library)
Phone: (423) 439-7409
E-mail: barettm@etsu.edu

Executive Aide
Cathy McGinnis
Office: 464 Nicks Hall (Old Sherrod Library)
Phone: (423) 439-5804
E-mail: mcginnis@etsu.edu

Department Secretary
Sonya Batchelder
Office: 462 Nicks Hall (Old Sherrod Library)
Phone: (423) 439-5328
E-mail: batchels@etsu.edu