Department of Computing

UNDERGRADUATE
STUDENT ADVISEMENT BOOKLET

Academic Year
2014-2015

Student Name: __________________________________________

Email: _________________________________________________

Advisor’s Name (1st year): _________________________________

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

This booklet serves as your contract with the Computing 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 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.

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.
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 masters programs.

COMPUTER SCIENCE (CS) CONCENTRATION – The CS concentration is designed for students who wish to 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. It will also be an asset for those students who are planning for graduate work in computer science. The CS concentration supplements the computing core curriculum with courses in data structures, algorithms, computer architecture, and operating systems. The concentration also requires additional hours of mathematics and science, including the calculus sequence required of mathematics majors and one additional lab science.

INFORMATION SYSTEMS (IS) CONCENTRATION – 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 Resource Planning, enterprise system implementation, other business-oriented computing or within their emphasis area, and for those who plan graduate work in information systems or business administration.

INFORMATION TECHNOLOGY (IT) CONCENTRATION – 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 web development, database or system administration, and for those who plan graduate work in information technology.
GRADUATION REQUIREMENTS

To earn a Bachelor of Science degree in Computing, you must:

- Complete a minimum of 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 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 “B-” or better in CSCI 1250 and a “C-“ or better in all other 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 intensive 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.

- **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 information technology-intensive (ITEC) 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 COMPUTING MAJORS

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 “registration hold” be removed by the advisor so that the student may register. All new Computing 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.
### Computing Concentration Comparison Chart

<table>
<thead>
<tr>
<th>Concentration</th>
<th>Computer Science (CS)</th>
<th>Information Systems (IS)</th>
<th>Information Technology (IT)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gen Ed Requirements</td>
<td>41 Credit hours</td>
<td>41 Credit Hours</td>
<td>41 Credit Hours</td>
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<tr>
<td>Computing Core</td>
<td>33 Credit Hours</td>
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<td>33 Credit Hours</td>
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<tr>
<td>Concentration Courses</td>
<td>45 Credit Hours</td>
<td>34-35 Credit Hours</td>
<td>37 Credit Hours</td>
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<tr>
<td>Free Electives</td>
<td>5 credit hours</td>
<td>3-4 credit hours (depending on which math is taken)</td>
<td>13 Credit Hours</td>
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<tr>
<td>Additional Courses</td>
<td>4 Credit Hours of an Additional Lab Science from GenEd List</td>
<td>Emphasis Area in either Management or Accounting</td>
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</tbody>
</table>

**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 adviser. Not all computing courses will count towards our major, such as CSCI 1100, Internship/Cooperative education courses, and several others.
- 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.
- At least one major elective in each concentration must be at the 3000/4000 level.

**Free Electives**

Free electives are any credits that are accepted by ETSU, but do not count towards your General Education or Major requirements.

**See above chart for the number of credit hours needed for your major:**

- [ ] ______________ ( __Credit hours)
- [ ] ______________ ( __Credit hours)
- [ ] ______________ ( __Credit hours)
- [ ] ______________ ( __Credit hours)
- [ ] ______________ ( __Credit hours)
- [ ] ______________ ( __Credit hours)
- [ ] ______________ ( __Credit hours)
- [ ] ______________ ( __Credit hours)
- [ ] ______________ ( __Credit hours)
2014-2015 General Education Requirements for Computing 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)
- DANC 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)

SOCIAL/BEHAVIORAL SCIENCES: 6 credits (select two)
- ANTH 1240 Introduction to Cultural Anthropology (3)
- ECON 1050 Econ & Soc (3) or ECON 2210 Macroeconomics (3)*
- ECON 2220 Principles of Microeconomics (3)
- GEOG 1012 Introduction to Cultural Geography (3)
- HDAL 2310 Developmental Lifespan Psychology (3)
- PSCI 1110 Political Life (3) [W]/[O]
- PSCI 1120 Introduction to American Government (3)
- PSYC 1310 Introduction to Psychology (3)
- SOCI 1020 Introduction to Sociology (3)
- SOCI 2020 Social Problems (3) [W]
- SRVL 1020 Introduction to Service Learning (3) [W]/[O]
- WMST 2010 Introduction to Women's Studies (3) [W]

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)

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]

FINE ARTS: 3 credits (select one)
- ENGL 2430 European Literature (3)
- ARTH 2010 Art History Survey I (3)
- ARTH 2020 Art History Survey II (3)

HUMANITIES: 3 credits (select one)
- DANC 3500 Dance as Human Experience (3)
- ENGL 3150 Literature, Ethics, and Values (3)
- HUMT 2310 Humanities I (to 1600) (3)
- ENGL 3280 Mythology (3) [W]
- HUMT 2320 Humanities II (1600 - ) (3)
- ENGL 2210 British Literature I (3) [W]
- ENGL 2220 British Literature II (3) [W]
- ENGL 2225 World Literature (3)
- ENGL 2330 World Literature (3)
- ENGL 2340 Introduction to Shakespeare (3)
- ENGL 2330 World Literature (3)

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

OTHER REQUIREMENTS:
- CSCI 2110 Using Information Technology
  - Writing Int: 3000/4000? __ Major? __
  - Writing Int: 3000/4000? __ Major? __
  - Writing Int: 3000/4000? __ Major? __
  - Writing Int: CSCI 3250 3000/4000? X Major? X
  - Oral Int. __ Oral Int. CSCI 3350

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/W and PHYS 2020/2021/W General Physics Sequence
- 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 Computing majors: BIOL 1010/1011, BIOL 1020/1021, CHEM 1000, CHEM 1030, PHYS 1030

* Choose ECON 2210 if concentration is Information Systems
This form should be signed in triplicate no later than the second week of the next to last semester. One copy, properly signed, is returned to the Graduation Office, Room 108, one copy to the Advisor, and one copy to the student.

Name: _______________________________ E#: __________________


### COURSE REQUIREMENTS OF MAJOR DEPARTMENT

<table>
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<tr>
<th>DEPT</th>
<th>COURSE</th>
<th>TITLE*</th>
<th>GRADE</th>
<th>HOURS</th>
<th>TO BE TAKEN</th>
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<td>CSCI</td>
<td>1250</td>
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<td>2010</td>
<td>Linear Algebra</td>
<td>3</td>
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NOTES:

Total number of hours completed in the major: ____________________ Total hours to be taken: ____________________

Approved: ___________________________ Date: __________________

ADVISOR OR DEPT. CHAIR

Student’s Signature: ___________________________ Graduation Date: __________________
Catalog Year 2014-2015

>>> Computer Science (CS) Concentration <<<

Prerequisite Tree – Major Courses

- CSCI 1250 Intro to CSCI I
- CSCI 1900 Math for CS
- CSCI 1100 Using Info Tech
- CSCI 1510 Student in University

- CSCI 2020 Fund. Of DB.
- MATH 1920 Calc II

- CSCI 2210 Data Structures
- CSCI 2200 UNIX
- CSCI 2150 Computer Organization

- CSCI 2200 UNIX
- CSCI 3230 Algorithms
- CSCI 3250 Software Engineering I
- CSCI 3350 Software Engineering II

- CSCI 1400 PC Setup & Maint.
- CSCI 3400 Networking Fundamentals
- CSCI 3500 Info Sec and Assurance

- CSCI 4717 Computer Architecture (Fall Only)
- CSCI 4727 Operating Systems (Spring Only)
This form should be signed in triplicate no later than the second week of the next to last semester. One copy, properly signed, is returned to the Graduation Office, Room 108, one copy to the Advisor, and one copy to the student.

Name: ___________________________ E#: ___________________________

Major/Option: ___________________________ Computing/ IS Concentration __________________________________

Catalog: _______________ 2014-2015

COURSE REQUIREMENTS OF MAJOR DEPARTMENT

<table>
<thead>
<tr>
<th>DEPT</th>
<th>COURSE</th>
<th>TITLE*</th>
<th>GRADE</th>
<th>HOURS</th>
<th>TO BE TAKEN</th>
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<tr>
<td>CSCI</td>
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<td>Intro to Computer Science I (“B-“ or Better)</td>
<td>“B-“ or Better</td>
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<td>Client &amp; Server Side Programming</td>
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<td>MATH</td>
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<td>Analytical Geom &amp; Diff Calculus OR Calculus I</td>
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*One of the Major Elective courses may be related to the student’s selected Emphasis Area. This Emphasis Area elective must be approved by the student’s advisor.
INFORMATION SYSTEMS EMPHASIS AREA (either Management or Accountancy)

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. Students must make a “C” or better in each course.

### MANAGEMENT EMPHASIS

<table>
<thead>
<tr>
<th>DEPT</th>
<th>COURSE</th>
<th>TITLE</th>
<th>GRADE</th>
<th>HOURS</th>
<th>TO BE TAKEN</th>
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<td>MGMT</td>
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### ACCOUNTANCY EMPHASIS

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<th>COURSE</th>
<th>TITLE</th>
<th>GRADE</th>
<th>HOURS</th>
<th>TO BE TAKEN</th>
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****ECON 2210 should be taken as one of the Social/Behavior Sciences required for General Education courses.

NOTES:

Total number of hours completed in the major: ____________________
Total hours to be taken: ____________________

Approved: __________________________________ Date: ____________________

ADVISOR OR DEPT. CHAIR

Student’s Signature: ____________________ Graduation Date: ____________________
Catalog Year 2014-2015

>>> Information Systems (IS) Concentration <<<

Prerequisite Tree – Major Courses

CSCI 1250 Intro to CSCI I

CSCI 1900 Math for CS

CSCI 1100 Using Info Tech

CSCI 1400 PC Setup & Maint.

CSCI 1260 Intro to CSCI II

CSCI 2150 Computer Organization

CSCI 1710 Web Design & Dev

CSCI 2020 Fund. Of DB.

CSCI 2910 Server-Side Programming

CSCI 3350 Software Engineering II

CSCI 3400 Networking Fundamentals

CSCI 3250 Software Engineering I

CSCI 2910 Server-Side Programming

CSCI 3020 Database Adv. Topics

CSCI 4770 IS Strategy and Management

CSCI 3720 Fund. of Bus. IS

CSCI 3500 Info Sec and Assurance

CSCI 3720 Fund. of Bus. IS

ACCT 2010

CSCI 4770 IS Strategy and Management

CSCI 4767 Enterprise Programming

CSCI 4757 IS Implementation

CSCI 3020 Database Adv. Topics

76x254 CSCI 3250 Software Engineering I

CSCI 1900 Math for CS

CSCI 2020 Fund. Of DB.

ACCT 2010

CSCI 3500 Info Sec and Assurance

CSCI 3350 Software Engineering II
This form should be signed in triplicate no later than the second week of the next to last semester. One copy, properly signed, is returned to the Graduation Office, Room 108, one copy to the Advisor, and one copy to the student.

Name: _______________________________  E#: __________________


COURSE REQUIREMENTS OF MAJOR DEPARTMENT

<table>
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<tr>
<th>DEPT</th>
<th>COURSE</th>
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<th>GRADE</th>
<th>HOURS</th>
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Total number of hours completed in the major: ___________________  Total hours to be taken: ___________________

Approved: ___________________________  Date: __________________

ADVISOR OR DEPT. CHAIR

Student’s Signature: ___________________  Graduation Date: ___________________
Catalog Year 2014-2015

>>> Information Technology (IT) Concentration <<<

Prerequisite Tree – Major Courses

CSCI 1250
Intro to CSCI I

CSCI 1900
Math for CS

CSCI 1100
Using Info Tech

CSCI 1510
Student in University

CSCI 1400
PC Setup & Maint..

CSCI 1710
Web Design & Dev

CSCI 2020
Fund. Of DB.

CSCI 1260
Intro to CSCI II

CSCI 2150
Computer Organizatio

CSCI 2020
Fund. Of DB.

CSCI 2910
Server-Side Programming

CSCI 2200
Unix

CSCI 3250
Software Engineering I

CSCI 3350
Software Engineering II

CSCI 4927
HCI

CSCI 3020
Database Adv. Topics

CSCI 3720
Fund. of Bus. IS

CSCI 3110
Advanced Topics in Web

CSCI 4417
Sys Admin

CSCI 3250
Software Engineering I

Senior Status in Computing and Within Two Semesters of Graduation

CSCI 4800
Senior Project in IT
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 “registration hold” be removed by the advisor so that the student may register. All new Computing 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
Phone: (423) 439-7413
E-mail: franklit@etsu.edu

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

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

Executive Aide
Sonya Batchelder
Office: 464 Nicks Hall
Phone: (423) 439-5328
E-mail: batchels@etsu.edu