B.S. COMPUTER SCIENCE

Student: _____ GCID#: _____

AREA F: SCHOOL OF BUSINESS Core (18 s.h.)

All of the following:

CSCI 1301, Computer Science I ____ ____
CSCI 1302, Computer Science II. Preq. CSCI 1301 ____ ____
CSCI 2350, Object Orient. Programing, Preq. CSCI 1302 ____ ____

All of the following if not taken in Areas A and D:

***Computer Science Majors can take Math 1115 & 1116 or Math 1261**

MATH 1115, Integrated Calculus IA, Preq, 4 yrs highschool math ____ ____
MATH 1116, Integrated Calculus IB, Preq, "C" or better in Math 1115 ____ ____

MATH 1261, Calculus I, Preq. "C" or better in Math 1113 & 1114 ____ ____
MATH 1262, Calculus II, Preq. "C" or better in Math 1261 ____ ____

Selections from the following:

CSCI 2680, Discrete Structures, Preq. Math 1113 & CSCI 1302 ____ ____
MATH 2600, Prob. & Statistics, Preq. Math 1101 or higher ____ ____
CSCI 2800, Social & Professional Issues, Preq 1302 **or** ____ ____
MKTG 3172, Business Ethics, Preq Sophomore standing

MAJOR REQUIREMENTS (30 s.h)

CSCI 3410, Introduction to Data Structures, Preq. CSCI 1302 ____ ____
CSCI 3211, Assem. Lang. & Digital Logic Design, Preq. CSCI 1302 ____ ____
CSCI 3212, Comp. Organ. & Architecture, Preq. CSCI 3211 ____ ____
CSCI 3341, Operating Systems, Preq. CSCI 3410 and 3212 ____ ____
CSCI 3342, Systems & Networks Programming, Preq CSCI 3341 ____ ____
CSCI 4320, Software Engineering, Preq. CSCI 3410 ____ ____
CSCI 4520, Analysis of Algorithms, Preq. CSCI 2680 & CSCI 3410 ____ ____
CSCI 4710, Databases or CBIS 3214 Database Management, Preq. CSCI 2680 & CSCI 3410 ____ ____
Choice of other CSCI Course at the 3000-4000 level ____ ____

Cognate Area A: Science (6 - 16 s.h.)

If Not Taken In Area "D"

CHEM 1211 and Lab, Princ. Of Chemistry I ____ ____
CHEM 1212 and Lab, Princ. Of Chemistry Ii, Preq CHEM 1211 ____ ____
OR
PHYS 2211 and Lab, Princ. Of Physics I, Preq MATH 1261 ____ ____
PHYS 2212 and Lab, Princ. Of Physics II, Preq MATH 1262 ____ ____

Complete two courses in Natural Science:
ASTR, BIOL, CHEM,ENSC,GEOL,PHYS
(Must include lab if offered)

_____ ____ ____
_____ ____ ____
_____ ____ ____

Cognate Area B: Mathematics (2-11 s.h.)

All of the following if not taken in Areas F

***Computer Science Majors can take Math 1115 & 1116 or Math 1261**

MATH 1115, Integrated Calculus IA, Preq, 4 yrs highschool ma ____ ____
MATH 1116, Integrated Calculus IB, Preq, "C" or better in Math ____ ____
MATH 1261, Calculus I, Preq. "C" or better in Math 1113 & 111 ____ ____
MATH 1262, Calculus II, Preq. "C" or better in Math 1261 ____ ____
MATH 2600 Probability & Stats, Preq. Math 1101 or higher ____ ____
CSCI 2680 Discrete Structures, Preq. Math 1113 or higher & CSCI 1302 ____ ____
CSCI 2800 Social and Professional Issues, Preq 1302 **or**

MKTG 3172 Business Ethics ____ ____

Foreign Language Requirement (3 s.h.)

One 3 Hr Course level 1002 or higher
1. _____ ____ ____

3000 - 4000 Level Electives

1. _____ ____ ____
2. _____ ____ ____
3. _____ ____ ____
4. _____ ____ ____

Senior Capstone Experience Hours (1-3 s.h.)

Completion of ONE of the following:

CSCI 4950, Advanced Special Topics (1 - 3 Hrs) ____ ____
CSCI 4690, Internship (1 - 3 Hrs) ____ ____
CSCI 4999, Undergrad Research in Computer Science ____ ____
CSCI 4980, Study Abroad or other study abroad course ____ ____

Other Requirements

BIDS 1705 or other First Year Academic Seminar ____ ____
NOTE: Students with 29 or more hours are not required to take a first year seminar.

NOTES:

- A total of (39) 3000 - 4000 level hours required
- A grade of C or better is required in all courses counting toward the major.

*** Total semester hours required for graduation 120 hours**

*** 2.0 Institutional GPA required for graduation * Application for Graduation (should be filed 3rd semester before graduation)**

Suggested Sequence for B.S. in Computer Science*

(Revised 7/21/09)

Freshman Fall	**Credit Hrs**
Foreign Language I -- not required FL	3
BIDS 1705: Freshman Seminar **	1
ENGL 1101: English Comp I	3
CSCI 1301: Computer Science I	3
Choice of one: ***Students taking Math 1115 must also take Math 1116** MATH 1113 PreCalculus MATH 1114 Trigonometry MATH 1115 Integrated Calculus 1A MATH 1261: Calculus I	4
Choice of one: ARTS 1105: Understanding Visual Cult MUSC 1105: Music and Civilization THEA 1105: Theatrical Heritage	2
Total Semester Hours	***16***

Freshman Spring	**Credit Hrs**
Foreign Language II – required FL	3
POLS 1150: Politics & Society	3
ENGL 1102: English Comp II	3
CSCI 1302: Computer Science II	3
Choice of one: *MATH 1262: Calculus II MATH 1114 Trig and Analytical Geometry MATH 1116 Integrated Calculus 1	4
RGTT: Regents Test	
Total Semester Hours	***16***

Sophomore Fall	**Credit Hrs**
Lab Science I: (CHEM 1211, PHYS 2211)	4
Choice of one: IDST 2310: The Fine & Applied Art IDST 2315: America's Cult Heritage	2
CSCI 2350: Object Oriented Programming	3
CSCI 2680: Discrete Structures Major	3
MATH 2600: Probability & Statistics	3
Total Semester Hours	***15***

Sophomore Spring	**Credit Hrs**
Lab Science II: (CHEM 1212, PHYS 2212)	4
Choice of one: ENGL 2110: World Literature IDST 2305: The Humanities and Fine Art	3
CSCI 3410: Data Structures Major	3
Elective Any Level	3
MKTG 3172: Business Ethics	3
Total Semester Hours	***16***

Junior Fall	**Credit Hrs**
CSCI 3211: Assem Lang & Digital Logic Design	3
ECON 2105: Principles of Macroeconomics	3
Choice of one: HIST 1131: World Civilization I HIST 1132: World Civilization II	3
Complete 1 course in Natural Science: (ASTR, CHEM, GEOL, BIOL, ENSC,PHYS)	4
Total Semester Hours	***13***

Junior Spring	**Credit Hrs**
CSCI 3212: Comp. Organization and Architecture	3
Elective: 3000-4000 level	3
Choice of one: HIST 1131: World Civilization I HIST 1132: World Civilization II IDST 2505: Interpersonal Relations SOCI 1121: Sociological Perspectives	3
Complete 1 course in Natural Science: (ASTR, CHEM, GEOL, BIOL, ENSC,PHYS)	4
CSCI 4520 Analysis of Algorithms	3
Total Semester Hours	***16***

Senior Fall	**Credit Hrs**
CSCI 3341: Operating Systems	3
CSCI 4320: Software Engineering	3
Choice of one: CSCI 4710: Databases Major or CBIS 3214: Database Management	3
MATH 2600: Probability & Statistics	3
Choice of one: IDST 2205: Global Issues and Society IDST 2210: Ethics and Society IDST 2215: Communications In Society	2
Total Semester Hours	***14***

Senior Spring	**Credit Hrs**
CSCI 3342: Systems & Network Programming	3
CSCI 4330: Programming Languages	3
Elective: 3000-4000 level	3
Elective: 3000-4000 level	3
CSCI Elective: 3000-4000 level	3
Senior Exit Exam	
Total Semester Hours	***15***

- **Total semester hours required for graduation 120 hours**
- **2.0 Institutional GPA required for graduation**
- **Application for Graduation (should be filed 3rd semester before graduation)**

Suggested Sequence for B.S. in Computer Science*

(Revised 7/21/09)

NOTES:

* This sequence of courses is only a suggestion; because of class availability, some courses may need to be taken in different terms. What is important is that students should complete at least 30 semester hours per year to complete all degree requirements in four years.

**BIDS 1705 does not count in hours for graduation

- Foreign Language I is not required -- only Foreign Language II
- First semester freshman are required to take BIDS 1705. This course does not count in the required 120 hours for graduation.
- The US and Georgia constitution special legislative requirements are satisfied by earning a passing grade in POLS 1150.
- MATH 1261 and 1262 are required courses in the major. MATH 1113 and 1114 are preparatory courses for students needing additional preparation prior to taking the calculus sequence. MATH 1115 and 1116 is an option with "just-in-time" precalculus reviews and satisfies MATH 1261. Students should register for MATH 1262 after completing MATH 1116.
- RGTT Test - Student's must register and sit for the Regent's Test no later than the semester of enrollment immediately following the completing 30 credit hours. Transfer students from outside of the University System of Georgia must complete the Regent's Test within 2 semesters of their arrival.
- US & GA History special legislative requirements (As of Fall 2000) must be satisfied by earning a passing grade in HIST 2111, HIST 2112, or HIST 4415 or by passing an examination (See GCSU Undergraduate Catalog under Special Legislative Requirements). Contact Department of History & Geography for Test.
- Elective Upper Level requirements assume that Natural Science I and II are taken at the lower level. For each hour of Natural Science taken at the upper level, a corresponding number of hours of upper level elective is changed to any level. You must have a total of 39 credit hours taken at the Upper Level (3000 - 4000).
- 120 credit hours are required to graduate excluding BIDS 1705
- A grade of C or better is required in all courses counting toward the major.

• Total semester hours required for graduation 120 hours

• 2.0 Institutional GPA required for graduation • Application for Graduation (should be filed 3rd semester before graduation)