**REQUIREMENTS FOR THE DEGREE OF Fall 2012**

**BACHELOR OF SCIENCE**

**IN COMPUTER SCIENCE**

**CURRICULUM**

**FRESHMAN YEAR**

**FRESHMAN YEAR**

ENGL 1301 Rhetoric and Composition 3

CHEM 1311/1111 General Inorganic Chemistry I and Lab 4

(prereq: MATH 1314, HS Chemistry or CHEM 1481)

MATH 2413 Calculus I 4

(prereq: MATH 1348)

CSEN 2304 Introduction to Computer Science 3

(prereq: MATH 1314)

UNIV 1101 1

----

15

ENGL 1302 Rhetoric and Composition 3

HIST 1301 American History 3

PHYS 2325/2125 University Physics I and Lab 4

(prereq: PHYS 1305/1105; coreq: MATH 2413)

MATH 2414 Calculus II 4

(prereq: MATH 2413)

CSEN 2306 Object Oriented Programming 3

(prereq: CSEN 2304)

UNIV 1102 1

------

18

**SOPHOMORE YEAR**

HIST 1302 American History 3

POLS 2301 Government and Politics of US 3

PHYS 2326/2126 University Physics II and Lab. 4

(prereq: PHYS 2325/2125; coreq: MATH 2414)

MATH 3320 Differential Equation 3

(prereq: MATH 2414)

CSEN 2310 Object-Oriented Software Engineering 3

(prereq: CSEN 2304)

----

16

POLS 2302 Government and Politics of U.S. 3

CSEN 2328 Data Structures and Algorithms 3

(prereq: CSEN 2304)

*^Visual/performing arts* 3

*^Literature/philosophy* 3

STAT 1342 Elementary Statistics 3

(prereq: MATH 1314 or MATH 1324)

----

15

**JUNIOR YEAR**

MATH 3370 Discrete Math 3

*^Oral communication*\* 3

EEEN 2340 Digital Logic Design 3

(prereq: CSEN 2304)

CSEN 4315 Computer Graphics 3

(prereq: CSEN 2304)

*^Social/behavioral* 3

----

15

EEEN 3449 Microprocessor Systems 4

(prereq: EEEN 2340)

CSEN 4316 Software Engineering I 3

(prereq: 6 semester hours of CS)

CSEN 4314 Database Systems 3

*^Global learning*\*\* 3

----

13

**SENIOR YEAR**

CSEN 4201 Senior Project 2

(prereq: senior standing)

CSEN 4320 Computer Networks 3

(prereq: 6 hours of upper level CS)

EEEN 4344 Computer Architecture and Design 3

(prereq: EEEN 3449)

CSEN 4317 Software Engineering II 3

(prereq: CSEN 4316)

Approved Elective\*\*\* 3

---

14

CSEN 4202 Senior Project 2

(prereq: senior standing)

CSEN 4362 Operating Systems 3

(prereq: EEEN 3449)

CSEN 4366 Programming Language 3

(prereq: CSEN 2328)

CSEN 4340 Computer Security 3

(prereq: CSEN 4320)

Approved Elective\*\*\* 3

----

14

Total Number of Hours: 120

\*BCOM 2304, COMS 2374, or ENGL 2374 is strongly recommended.

\*\*EVEN 2372 is strongly recommended.

\*\*\*The approved electives must be selected with the consent of the student’s advisor, and would normally be more advanced courses in computer science, computer information systems, mathematics, statistics, or one of the sciences taken in the freshman and sophomore years. However, a meaningful sequence of courses in any discipline, such as engineering or agriculture, may be taken with the consent of the student’s advisor, except that all such courses must be at the 2000-level or above.

Revised 6/12

**General Education Electives**

**^*Visual/performing arts***

ARTS 1303, ARTS 1304, ARTS 1311, ARTS 1312, ARTS 1316, ARTS 1317, ARTS 2301, ARTS 2313, ARTS 2316, ARTS 2326, ARTS 2333, ARTS 2346; MUSI 2301, MUSI 2306, MUSI 2308, MUSI 2310; THEA 1322, THEA 2301.

**^*Literature/philosophy***

ANTH 2301, ANTH 2302; ENGL 2342, ENGL 2362; FREN 1311, FREN 1312, FREN 2311, FREN 2312; HIST 2321, HIST 2322; PHIL 1301; SPAN 1313, SPAN 1314, SPAN 2301, SPAN 2302, SPAN 2311, SPAN 2312; SWBS 2301, SWBS 2302.

***^Oral communication***

COMS 1311, COMS 1315, COMS 2335,

COMS 2374; BCOM 2304; ENGL 2374 (recommended).

**^*Global learning***

ANTH 2301, ANTH 2302; BIOL 1372; BUAD 2374; ENGL 2331; GEOG 1303; HIST 2321, HIST 2322; PHIL 1301; POLS 2340; EVEN 2372 (recommended).

**^*Social/behavioral***

ANTH 2303; ECON 2301, ECON 2302; POLS 2304, POLS 2340; PSYC 2301; SOCI 1301, SOCI 1306 or SOCI 2361.