# CSI B.S. Planning Checklist

73 CREDIT PROGRAM

**NAME:** ______________________________________

**ID:** ______________________________________

## General Education

- [ ] Arts
- [ ] Challenges for the 21st Century
- [ ] Foreign Language
- [ ] Humanities
- [ ] International Perspectives
- [ ] Mathematics & Statistics
- [ ] Natural Sciences
- [ ] Social Sciences
- [ ] US History
- [ ] Writing and Critical Inquiry

## Computer Systems and Science Core (24 Credits)

- ICSI 201: Intro. to Computer Science (4)
- ICSI 210: Discrete Structure (4)**
- ICSI 213: Data Structures (3)**
- ICSI 333: Prog. Hardware-Software Interface (4)**
- ICSI 403: Algorithms and Data Structures (3)
- ICSI 404: Computer Organization (3)
- ICSI 409: Automata and Formal Languages (3)

**Grade of C or better required to count in major**

**Pre-requisite / Co-requisite AMAT 112**

**Pre-requisite ICSI 201**

**Pre-requisite ICSI 213 / AMAT 220 recommended**

**Pre-requisite ICSI 210 & ICSI 213 / AMAT 220 recommended**

**Pre-requisite ICSI 333 & ICSI 210 / AMAT 220 recommended**

**Pre-requisite ICSI 210**

## Programming Language Principles (3 Credits)

- ICSI 311: Principles in Programming Language (3)

*Pre-requisite ICSI 210 & ICSI 213*

## Intensive Software Development (3 Credits)

- ICSI 499: Capstone Project in Computer Science

*Pre-requisite at least 9 credits of CSI 400+ coursework*

## Mathematics (17 Credits)

- AMAT 112: Calculus I (4)
- AMAT 113: Calculus II (4)
- AMAT 214 OR any 300+: Calculus of Several Variables (4) OR AMAT 300 or above
- AMAT 220: Linear Algebra (3)
- AMAT 367: Discrete Probability (3)

## Physics & Laboratory Science (8 Credits)

- A PHY 140: Physics I: Mechanics (3)
- A PHY 145: Physics Lab I (1) [Fall] *
- A PHY 150: Physics II: Electromagnetism (3)
- A PHY 155: Physics Lab II (1) [Spring] *

*Students who took Physics I or II without a lab can substitute 1 credit of other lab work for each of the A PHY 145 and 155 requirements*

## Social Aspects of Computing (3 Credits)

- ICSI 300Z: Social, Security and Privacy Implications of Computing (3)

## Science Sequence (6 Credits)

- __________________________
- __________________________

One pair of related major biological or physical (not in mathematics or computer science) as approved by the department. Approved pairs include A BIO 130 and 131, ACHM 120 and 121, A PHY 240 and 250, two courses from A PHY 353, 415, and 454, or others as advised

## Computer Science Electives (9 Credits)

- Elective __________________________
- Elective __________________________
- Elective __________________________

6-9 credits must be from I CSI courses numbered 300-470 or 500-550 or specially approved. 0-3 credits may be in A PHY 353 or 454 in digital hardware, or A PHI 432 in advanced logic
STUDENT INFORMATION

ID: 
AVN: 
Advisor: 

COURSE RECOMMENDATIONS: