### Core Requirements: 9-27 hours

**Compilers or Automata Theory (one of next three)**
- CS 5133: Compilers
- CS 5723: Automata Theory

**Computer Systems (one of next four)**
- CS 5313: Computer Networks
- CS 6213: Parallel Processing
- CS 6823: Distributed Systems
- CS 6823: High Performance Computing

**Algorithms (one of next two)**
- CS 5713: Analysis of Algorithms
- CS 6713: Advanced Analysis of Algorithms

### Electives: 6-24 hours (Total 33 hrs including core courses)

Selections may include up to 9 hrs. MATH/STAT, w/ prior approval.
- CS 5113: Software Engineering
- CS 5223: UNIX Systems Programming
- CS 5413: Computer Graphics I
- CS 5423: Computer Graphics II
- CS 5433: Artificial Intelligence
- CS 5543: Database Systems
- CS 583V: Internship
- CS 5913: Mobile Application Development
- CS 6313: Data Security
- CS 6413: Solid Modeling
- CS 6423: Robotic Software Control
- CS 6723: Computability Theory
- CS 6813: Seminar in Computer Science
- CS 6823: ST - Adv Computer Architecture
- CS 6823: ST - Bioinformatics
- CS 6823: ST - Computer & Network Security
- CS 6823: ST - Data Mining
- CS 6823: ST - DB System Implementation
- CS 6823: ST - Image Processing
- CS 6823: ST - Machine Learning
- CS 688V: Independent Study
- CS 689V: Thesis

### Undergraduate Deficiencies

Required deficiencies bring M.S. candidate to level of B.S. degree graduate.

No 6000-level courses for credit until all deficiencies circled below have been completed.

**Computer Science:**

- three of next three
  - CS 2114: Structured Programming
  - CS 2124: OOP & Fund Data Structures
  - CS 3113: Algorithms & Adv Data Structures
  - or three of next three
  - CS 5012: Acc Structured Programming
  - CS 5022: Acc OOP & Fund Data Structures
  - CS 5032: Acc Algorithms & Adv Data Struct

**Mathematics and Statistics:**

- MATH 2183: Discrete Structures
- MATH 2204: Calculus I
- MATH 2214: Calculus II
- STAT 3233: Applied Statistics I

### Graduation Check List

- Undergraduate deficiencies
- 18 hours of 6000 level coursework
- 3.00 average overall
- 3.00 average in major
- 33 hours for degree
- Comprehensive exam

### Current Enrollment:

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The above named student has met all requirements for graduation providing he/she satisfactorily completes the courses of current enrollment.