Computer Science, B.S. Degree.

List of new requirements:
English 2696 (3 cr.) Technical Writing
Math 1041 (4 cr.) Calculus I
Math 1042 (4 cr.) Calculus II
Lab Science 1 & 2 (8 cr.) Chem 1031/1033-1032/1034 or Phys 1061-1062
CIS 1001 (1 cr.) Freshman Seminar in Computer Science
CIS 1166 (4 cr.) Math Concepts in Computing I or Math 2196 (3 cr.) Basic Concepts of Math
CIS 1068 (4 cr.) Program Design and Abstraction
CIS 2107 (4 cr.) Computer Systems & Low-Level Programming
CIS 2168 (4 cr.) Data Structures
Math New (4 cr.) Probability and Statistics (Revised content and a 1 credit lab component)
CIS 3207 (4 cr.) Introduction to Systems Programming & Operating Systems
CIS 3223 (3 cr.) Data Structures and Algorithms
CIS 3287 (4 cr.) Software Design/Practicum
CIS 4397 (3 cr.) Writing Intensive Projects in Computer Science or CIS 4398 Independent Research (3 cr.)

Theory Elective—One of the following (3 cr. total):
CIS 2166 (3 cr.) Mathematical Concepts in Computing II
CIS 3211 (3 cr.) Automata, Computability, and Languages
CIS 3242 (3 cr.) Discrete Structures

CIS electives (14 cr. total, typically four courses)
2308. Web Application Programming (4 cr.)
3203. Introduction to Artificial Intelligence (4 cr.)
3211. Automata, Computability, and Languages (3 cr.) (if not used as theory elective)
3219. Computer Graphics and Image Processing (4 cr.)
3242. Discrete Structures (3 cr.) (if not used as theory elective)
3381^: (New) Cooperative Education Experience in Computer Science (4 cr.)
4282^: Independent Study (1 to 6 cr.)
4305. Real Time Computer Systems (4 cr.)
4307 Introduction to Distributed Systems and Networks (4 cr.)
4308. Development of Multi-tier Client/Server Systems (4 cr.)
4319. Computer Networks and Communications (4 cr.)
4324. Compiler Design (4 cr.)
4331. Principles of Database Systems (4 cr.)
4339. Projects in Computer Science (4 cr.) (if not used in choice of research or projects)
4350. Seminar on Topics in Computer Science (4 cr.)
4360. Seminar on Topics in Computer Science (3 cr.)
4382^: Independent Study (1 to 6 cr.)
4398^: Independent Study (1 to 6 cr.) (if not used as capstone requirement)

^Note: A maximum of eight credits may be taken from CIS 3381, CIS 4282, CIS 4382 and CIS 4398 to fulfill CIS electives.

Total 71 credits

Comparison to old Computer Science BS:

Changed
CIS 3223 changed from 4 cr. To 3 cr.
CIS 4397 & CIS 4398 changed from 4 cr. To 3 cr.
CIS electives changed from 3 electives to 14 credits.