Courses directly following CSC150:

- Winter 2003
  - 155: Mathematical Expression and Reasoning
  - 270: Fundamental Data Structures and Techniques
  - 288: Computer Organization

- Fall 2003 and following
  - 155: Mathematical Expression and Reasoning
  - 270: Software Design
  - 288: Computer Organization

CSC258: Computer Organization

- The first hardware course
- Organization of the CPU - control and arithmetic
- Memory storage devices
- Laboratory periods where you conduct experiments with digital logic circuits
- Assignments tend to be pencil and paper type
- This course does not change in the new curriculum

CSC238, CSC236/240

- Discrete Math / Introduction to the Theory of Computation
  - Mathematical induction
  - Correctness proofs
  - Recurrence relations
  - Algorithms and formal languages
  - Old (238) and new (236/240) are similar
  - 236 has more logic in it
  - 236 is the enriched version of 236 and does not require CSC165.
CSC270: Fundamental Data Structures

- Current course that will be replaced by 207
- Teaches C++ and C using classes to represent ADTs
- Covers 4 areas:
  - Graph representation and graph algorithms
  - Simulation: event driven model
  - Representation of floating point numbers and intro to numerical methods.
  - Dynamic programming.

CSC207: Software Design

- Serves the same role in the programs as 270
- Goals:
  - Writing larger programs
  - Deeper understanding of COP and design
  - Introduction to common software tools
- Topics
  - Object-Oriented Programming and Design.
  - Scripting
  - Unit testing and debugging
  - Version control and build management

Other Courses

- CSC 209: Software Tools and Systems programming
  - Requires CSC 270 or CSC 207
  - In the future will require CSC 258
  - Will teach C and systems programming
- CSC 263/265: Data Structures and Analysis
  - Requires CSC 207H/270H, 236H/238H/240H; and a stats course.
  - Algorithm analysis
  - ADTS: dictionaries, priority queues, balanced binary trees, B-trees, hashing, heaps
  - 265 is the enriched version of 263