COURSE OUTLINE – subject to changes:

L-1 Mon 14 Jan welcome to mcs 275
L-2 Wed 16 Jan extending Python
L-3 Fri 18 Jan arrays and matrices
   Mon 21 Jan Martin Luther King Day – no classes
L-4 Wed 23 Jan object oriented programming
L-5 Fri 25 Jan graphical user interfaces
L-6 Mon 28 Jan recursive problem solving, e.g.: binary search
L-7 Wed 30 Jan recursive drawings: fractals
L-8 Fri 1 Feb iterative versus recursive algorithms

Project One due by 11AM, Monday 4 February
L-9 Mon 4 Feb enumerative searches and backtracking
L-10 Wed 6 Feb recursive data structures
L-11 Fri 8 Feb traversing binary trees
L-12 Mon 11 Feb divide-and-conquer methods
L-13 Wed 13 Feb quick sort
L-14 Fri 15 Feb stacks of function calls

Project Two due by 11AM, Monday 18 February
L-15 Mon 18 Feb from recursion to iteration
L-16 Wed 20 Feb review of the first 15 lectures
L-17 Fri 22 Feb first midterm exam
L-18 Mon 25 Feb CGI programming
L-19 Wed 27 Feb client-side and server-side scripting
L-20 Fri 29 Feb dynamic web pages
L-21 Mon 3 Mar database programming
L-22 Wed 5 Mar working with MySQL
L-23 Fri 7 Mar accessing a database from a Python script
L-24 Mon 10 Mar network programming
L-25 Wed 12 Mar using sockets
L-26 Fri 14 Mar creating server and client

Project Three due by 11AM, Monday 17 March
L-27 Mon 17 Mar multithreaded programming
L-28 Wed 19 Mar locks and synchronization
L-29 Fri 21 Mar client/server with threads
L-30 Mon 31 Mar advanced web programming
L-31 Wed 2 Apr creating web servers
L-32 Fri 4 Apr creating advanced CGI applications
L-33 Mon 7 Apr an application
L-34 Wed 9 Apr review for second midterm exam
L-35 Fri 11 Apr second midterm exam

Project Four due by 11AM, Monday 14 April
L-36 Mon 14 Apr algorithms and data structures
L-37 Wed 16 Apr performance analysis
L-38 Fri 18 Apr garbage collection
L-39 Mon 21 Apr dynamic data structures
L-40 Wed 23 Apr game trees
L-41 Fri 25 Apr modeling with graphs
L-42 Mon 28 Apr review with focus on first midterm
L-43 Wed 29 Apr review with focus on second midterm

Project Five due by 11AM, Friday 2 May
L-44 Fri 2 May comprehensive review

Mon 5 - Fri 9 May: Final exam: date, time, and room to be announced.