**CS5900 Special Topics - Programing in C**

Summer 2015

As a token of algorithms and programming in C, I would suggest check out the following links that detail about the methods of integration, namely Simpson's rule or trapezoidal rule and bisection method to find the roots of polynomials.

MATLAB is a powerful mathematical and analytical commercial tool - uses codes mostly written in C. Most of the implementation files (also called as .m files/scripts) are C program codes.

Check the links to learn more so that you can use tools like Maple, Mathematica or MATLAB in your graduate study or research.

<http://www.math.umd.edu/~jmr/141/SimpsonDemo.html>

<http://faculty.cooper.edu/smyth/TechCompanion/Calc1/Ch08/NumericalIntegration.htm>

<http://stackoverflow.com/questions/13129805/matlab-algorithm-for-composite-simpsons-rule>

<http://www.mathworks.com/help/matlab/ref/trapz.html>

<http://www.mathworks.com/help/matlab/ref/integral.html>

<http://www.mathworks.com/help/matlab/ref/integral2.html>

Sky is the limit, unlock your imagination and creativity, enjoy programming!!

**Good Luck!**