MATHEMATICS B.A. - Computational Mathematics

Name: ___________________________ Date: ___________________________

(Quarter offered: F=Fall, W=Winter, S=Spring, *= Not offered this year)
ID#: ___________________________

NOTE: Courses appearing in more than one category can fulfill only one requirement.

INTRODUCTORY REQUIREMENTS

Calculus: MATH 19A (FWS) ___ + 19B (FWS) ___
Linear Algebra: MATH 21 (FWS) ___

Multivariable Calculus: MATH 23A (FWS) ___ + MATH 23B (FWS) ___

ADVANCED REQUIREMENTS

Math: MATH 24 Differential Equations (S) ___
      MATH 100 Introduction to Proof and Problem Solving (FWS) ___
      MATH 110 Introduction to Number Theory (F) ___
      MATH 111A Algebra (FW) ___

Analysis: ONE from the following...
          MATH 103 Complex Analysis (WS) ___
          MATH 105A Real Analysis (FW) ___

Computational: ONE from the following...
              MATH 145/L Introduction to Chaos Theory (*) ___
                   (cannot receive credit for both MATH 145 and AMS 114)
              AMS 114 Introduction to Dynamical Systems (formerly AMS 146) (W) ___
                   (cannot receive credit for both AMS 114 and MATH 145)
              AMS 147 Computational Methods and Applications (W) ___

Electives: TWO from the following...
            AMS 114 Introduction to Dynamical Systems (formerly AMS 146) (W) ___
                   (cannot receive credit for both AMS 114 and MATH 145)
            AMS 131 Introduction to Probability Theory (S) ___
            AMS 147 Computational Methods and Applications (W) ___
            BME 110 Computational Biology Tools (FS) ___
            CMPE 107 Mathematical Methods of Systems Analysis Stochastic (FW) ___
            CMPE 108 Data Compression (*) ___
            CMPE 117 Embedded Software (*) ___
            CMPE 153 Digital Signal Processing (*) ___
            CMPE 177 Applied Graph Theory and Algorithms (*) ___
            CMPS 101 Algorithms and Abstract Data Types (FS) ___
            CMPS 102 Introduction to Analysis of Algorithms (S) ___
            CMPS 104A Fundamental of Compiler Design I (F) ___
            CMPS 109 Advanced Programming (WS) ___
            CMPS 112 Comparative Programming Languages (S) ___
            CMPS 122 Computer Security (W) ___
            CMPS 130 Computational Models (F) ___
            CMPS 132 Computability & Computational Complexity (S) ___
            CMPS 142 Machine Learning and Data Mining (S) ___
            EE 103 Signals and Systems (FS) ___
            EE 130 Introduction to Optoelectronocs and Photonics (F) ___
            EE 135/L Electromagnetic Fields and Waves Laboratory (W) ___
            EE 151 Communications Systems (W) ___
            EE 154 Feedback Control Systems (F) ___

COMPREHENSIVE REQUIREMENT

MATH 194 Senior Seminar (WS) ___ OR MATH 195 Senior Thesis (FWS) ___