Computer Science: Software Engineering option Curriculum Flowchart (120 credits)
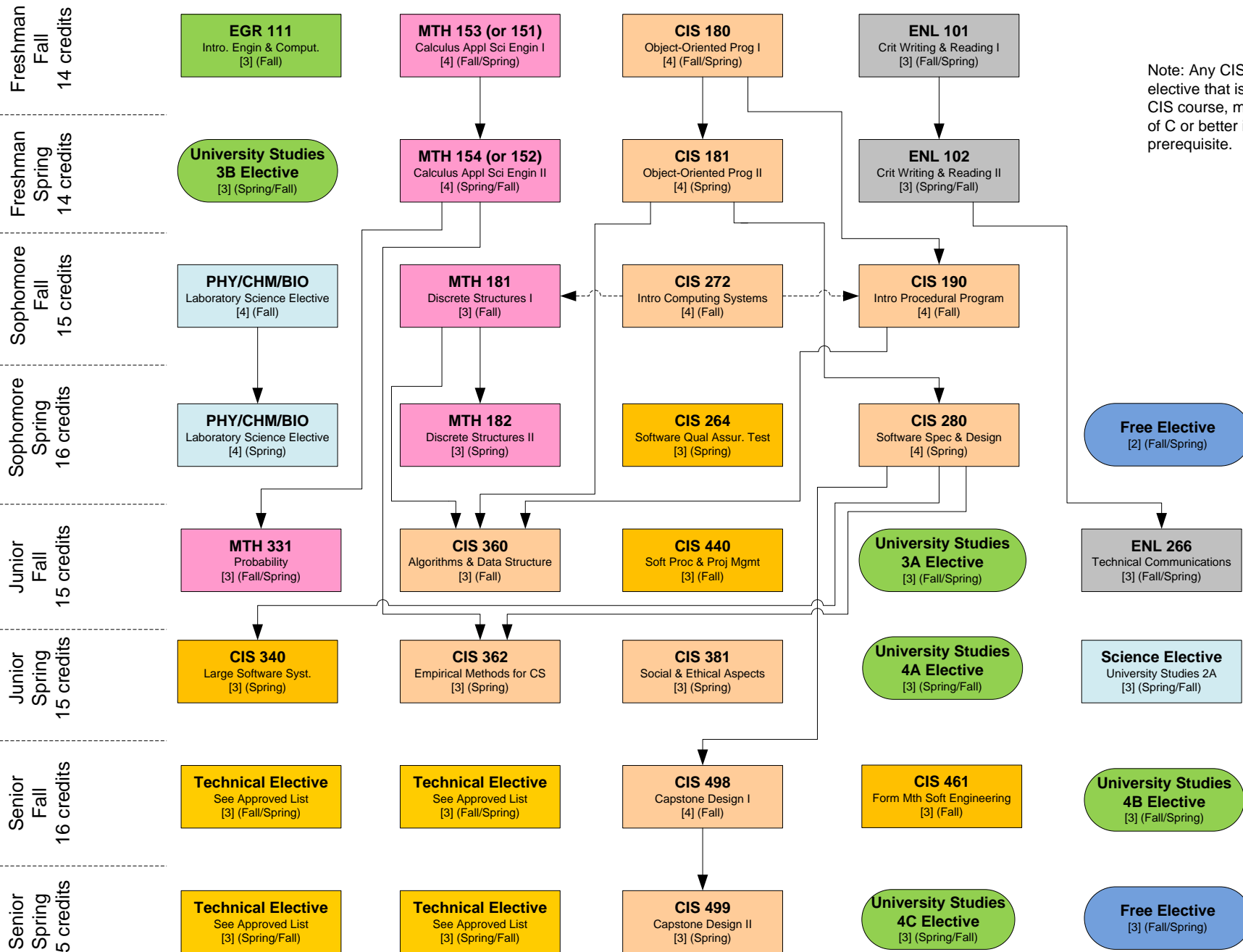
Note: Any CIS core course or technical elective that is a prerequisite to another CIS course, must be passed with a grade of C or better in order to satisfy the prerequisite.

Freshman Fall — 14 credits

EGR 111
Intro. Engin & Comput.
[3] (Fall)

MTH 153 (or 151)
Calculus Appl Sci Engin I
[4] (Fall/Spring)

CIS 180
Object-Oriented Prog I
[4] (Fall/Spring)

ENL 101
Crit Writing & Reading I
[3] (Fall/Spring)

Freshman Spring — 14 credits

University Studies 3B Elective
[3] (Spring/Fall)

MTH 154 (or 152)
Calculus Appl Sci Engin II
[4] (Spring/Fall)

CIS 181
Object-Oriented Prog II
[4] (Spring)

ENL 102
Crit Writing & Reading II
[3] (Spring/Fall)

Sophomore Fall — 15 credits

PHY/CHM/BIO
Laboratory Science Elective
[4] (Fall)

MTH 181
Discrete Structures I
[3] (Fall)

CIS 272
Intro Computing Systems
[4] (Fall)

CIS 190
Intro Procedural Program
[4] (Fall)

Sophomore Spring — 16 credits

PHY/CHM/BIO
Laboratory Science Elective
[4] (Spring)

MTH 182
Discrete Structures II
[3] (Spring)

CIS 264
Software Qual Assur. Test
[3] (Spring)

CIS 280
Software Spec & Design
[4] (Spring)

Free Elective
[2] (Fall/Spring)

Junior Fall — 15 credits

MTH 331
Probability
[3] (Fall/Spring)

CIS 360
Algorithms & Data Structure
[3] (Fall)

CIS 440
Soft Proc & Proj Mgmt
[3] (Fall)

University Studies 3A Elective
[3] (Fall/Spring)

ENL 266
Technical Communications
[3] (Fall/Spring)

Junior Spring — 15 credits

CIS 340
Large Software Syst.
[3] (Spring)

CIS 362
Empirical Methods for CS
[3] (Spring)

CIS 381
Social & Ethical Aspects
[3] (Spring)

University Studies 4A Elective
[3] (Spring/Fall)

Science Elective
University Studies 2A
[3] (Spring/Fall)

Senior Fall — 16 credits

Technical Elective
See Approved List
[3] (Fall/Spring)

Technical Elective
See Approved List
[3] (Fall/Spring)

CIS 498
Capstone Design I
[4] (Fall)

CIS 461
Form Mth Soft Engineering
[3] (Fall)

University Studies 4B Elective
[3] (Fall/Spring)

Senior Spring — 15 credits

Technical Elective
See Approved List
[3] (Spring/Fall)

Technical Elective
See Approved List
[3] (Spring/Fall)

CIS 499
Capstone Design II
[3] (Spring)

University Studies 4C Elective
[3] (Spring/Fall)

Free Elective
[3] (Fall/Spring)

Revised 9/10/15/jm