

# UAF BS in Computer Science Checklist

## For the 2013-14 UAF Catalog

Revised 2013-11-08

Student: \_\_\_\_\_ UAID: \_\_\_\_\_

Advisor: \_\_\_\_\_ Date: \_\_\_\_\_

### General Degree Requirements

ANTH/SOC 100X \_\_\_\_\_ ECON/PS 100X \_\_\_\_\_

HIST 100X \_\_\_\_\_ ENGL/FL 200X (lit) \_\_\_\_\_

ART/MUS/THR 200X, HUM 201X, or ANS 202X (art) \_\_\_\_\_

OR replace any two courses above with a two-course foreign-language sequence \_\_\_\_\_

ENGL 111X \_\_\_\_\_ ENGL 211X/213X (writing) \_\_\_\_\_

COMM 131X/141X \_\_\_\_\_ Library skills: LS 100X/101X or test \_\_\_\_\_

Science (8 credits, 2 courses, not PHYS 211X/212X and not *both* physics) \_\_\_\_\_

### CS Major Requirements

BA 323X, COMM 300X, JUST 300X, NRM 303X, PS 300X, or PHIL 322X (ethics) \_\_\_\_\_

PHYS 211X \_\_\_\_\_ PHYS 212X \_\_\_\_\_

MATH 200X (Calculus I) \_\_\_\_\_ MATH 201X (Calculus II) \_\_\_\_\_

MATH 202X (Calculus III) \_\_\_\_\_ MATH 307 (Discrete Math) \_\_\_\_\_

STAT 300 (Statistics) \_\_\_\_\_

CS 201 (CS I) \_\_\_\_\_ CS 202 (CS II) \_\_\_\_\_

CS 301 (Assembly Language) \_\_\_\_\_ CS 311 (Data Structures & Algorithms) \_\_\_\_\_

CS 321 (Operating Systems) \_\_\_\_\_ CS 331 (Programming Languages) \_\_\_\_\_

CS 371 (Ethics & Technical Comm) \_\_\_\_\_ CS 372 (Software Construction) \_\_\_\_\_

CS 411 (Analysis of Algorithms) \_\_\_\_\_ EE 341 (Digital Design) \_\_\_\_\_

CS 441 (System Architecture) or EE 443 (Computer Engineering) \_\_\_\_\_

CS 471 (Senior Capstone I) \_\_\_\_\_ CS 472 (Senior Capstone II) \_\_\_\_\_

Three CS electives and one MATH elective at the 300/400 level

CS Elective \_\_\_\_\_ CS Elective \_\_\_\_\_

CS Elective \_\_\_\_\_ MATH Elective \_\_\_\_\_

Example CS electives: CS 361/460/462/463 (security), 381/481/482 (graphics), 405 (AI), 425 (DB)

Note: BS in CS with 3 security classes for Information Assurance Certificate

Example MATH electives: MATH 302 (Differential Eqs), 314 (Linear Algebra), 371 (Probability)

Note: Completing all CS BS requirements qualifies for Math minor

### Credits

Total 120 Credits \_\_\_\_\_

Upper Division 39 Credits (Major 47) \_\_\_\_\_ Residence 30 Credits (24 UD; 12 UD in CS) \_\_\_\_\_