

# UAF **BS** in Computer Science Checklist

## For the **2019-20** and later UAF Catalogs

Revised 2023-11-07

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

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

### General Education Requirements

Arts: 1 course \_\_\_\_\_ Humanities: 1 course \_\_\_\_\_

Social Sciences: 2 courses from different disciplines \_\_\_\_\_

1 additional Arts/Humanities/Social Sciences course \_\_\_\_\_

WRTG 111X \_\_\_\_\_ WRTG 211X/212X/213X/214X \_\_\_\_\_

COM 121X/131X/141X \_\_\_\_\_ Library skills: LS 101X or test \_\_\_\_\_

Natural Sciences: 2 courses, not PHYS 211X/212X and not *both* physics \_\_\_\_\_

Alaska Native-themed: 1 course (may be same as one of the above) \_\_\_\_\_

### CS Major Requirements

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

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

MATH 251X (Calculus I) \_\_\_\_\_ MATH 252X (Calculus II) \_\_\_\_\_

MATH 253X (Calculus III) \_\_\_\_\_ MATH 307 (Discrete Math) \_\_\_\_\_

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

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

\*CS 241 (Hardware) \_\_\_\_\_ 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) \_\_\_\_\_

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

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

\*May petition to satisfy this requirement using EE 341

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

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

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

Example CS electives: CS 405 (AI), 425 (Databases), 453 (Robotics), 484/485/486 (Graphics)

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

*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) \_\_\_\_\_