UAF BS in Computer Science Checklist

For the 2019-20 and later UAF Catalogs

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 ___________________________
COJO 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, COJO 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), 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) ______