

# UAF BS in Computer Science Checklist

## For the 2016-17 and later UAF Catalogs

Revised 2017-06-21

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

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

### General Degree Requirements

*See next page for lists of Arts, Humanities, Social Sciences, and Natural Sciences courses.*

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

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

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

WRTG 111X [ENGL 111X] \_\_\_\_\_ WRTG 211X/213X [ENGL 211X/213X] \_\_\_\_\_

COJO 131X/141X [COMM 131X/141X] \_\_\_\_\_ Library skills: LS 101X or test \_\_\_\_\_

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

### CS Major Requirements

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

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

MATH 251X [200X] (Calculus I) \_\_\_\_\_ MATH 252X [201X] (Calculus II) \_\_\_\_\_

MATH 253X [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 381/481/482 (graphics), 405 (AI), 425 (DB)

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) \_\_\_\_\_

# Courses satisfying General Education Requirements

## Arts

ANS/FLPA 161X  
 ANS 202X  
 ANS/MUS/NORS 223X  
 ART 200X  
 ART 261X  
 ART 262X  
 COJO/ENGL/FLPA 217X\*  
 COJO/FLPA 105X\*  
 FLPA 200X  
 FLPA 215X  
 HUM 201X  
 MUS 103X  
 MUS 125X  
 MUS 200X

## Social Sciences

ACCT 261X  
 ANS 242X  
 ANTH 100X  
 ANTH 101X  
 ANTH 111X  
 ANTH 211X  
 BA 151X  
 COJO 180X\*  
 ECE 104X  
 ECON 100X  
 ECON 201X  
 ECON 202X  
 ECON 235X  
 GEOG 101X  
 HIST 100X  
 HIST 102X  
 HIST 122X  
 HIST 132X  
 JUST 110X  
 PS 100X  
 PS 201X  
 PSY 101X  
 RD 200X  
 SWK 103X  
 SOC 100X  
 SOC 201X  
 WGS 201X

## Humanities

ANL 141X  
 ANL 142X  
 ANL 251X  
 ANL 255X  
 ASLG 101X  
 ASLG 202X  
 COJO 101X\*  
 COJO 102X\*  
 ENGL/FL 200X  
 ENGL 270X  
 ESK 101X  
 ESK 102X  
 ESK 111X  
 ESK 112X  
 FREN 101X  
 FREN 102X  
 GER 101X  
 GER 102X  
 JPN 101X  
 JPN 102X  
 LAT 101X  
 LAT 102X  
 LING 101X  
 LING 216X  
 PHIL 102X  
 PHIL 104X  
 RELG 221X  
 RUSS 101X  
 RUSS 102X  
 SPAN 101X  
 SPAN 102X

## Natural Sciences

ATM 101X  
 BIOL 100X  
 BIOL 103X  
 BIOL 104X  
 BIOL 115X  
 BIOL 116X  
 BIOL 120X  
 BIOL 213X  
 BIOL 214X  
 CHEM 100X  
 CHEM 103X  
 CHEM 104X  
 CHEM 105X  
 CHEM 106X  
 CHEM 111X  
 GEOG 111X  
 GEOS 100X  
 GEOS 101X  
 GEOS 106X  
 GEOS 112X  
 GEOS 120X  
 MSL 111X  
 PHYS 102X  
 PHYS 103X  
 PHYS 104X  
 PHYS 115X  
 PHYS 175X  
 (PHYS 211X)\*\*  
 (PHYS 212X)\*\*  
 PHYS 213X

\*Before fall 2017, COJO courses were COMM or JRN with the same number. COJO 180X was COMM 180X; others on this page were JRN.

\*\*PHYS 211X & 212X are CS major requirements. They cannot be used to satisfy General Education Requirements.

