

# 2006-07 CATALOG

## COMPUTER SCIENCE

B.S./M.S. Degree Requirements

141 Credits

Please contact the Mathematical Sciences dept. if you wish to pursue this degree.

### GENERAL REQUIREMENTS

#### COMMUNICATIONS:- (9)

Engl 111X (3)\_\_\_\_\_

Engl 211X or 213X (3)\_\_\_\_\_

Comm 131X or 141X (3)\_\_\_\_\_

#### PERSPECTIVES ON THE HUMAN CONDITION:- (18)

A. Complete any Core approved ethics course:

\_\_\_\_\_ (3)\_\_\_\_\_

B. Complete the 5 courses listed OR 3 of those listed plus 2 semester length courses in a single AK Native or other non-English language or 3 semester length courses (9 credits) in American Sign Language.

Anth 100X/Soc 100X (3)\_\_\_\_\_

Econ/PS 100X (3)\_\_\_\_\_

Hist 100X (3)\_\_\_\_\_

Engl/FL 200X (3)\_\_\_\_\_

Art/Mus/Thr 200X or Hum 201X

ANS 202X (3)\_\_\_\_\_

Language option as listed above:

\_\_\_\_\_ ( ) \_\_\_\_\_ ( ) \_\_\_\_\_ ( )

#### \*MATHEMATICS :- (8)

Math 200X (4)\_\_\_\_\_

Math 201X (4)\_\_\_\_\_

#### NATURAL SCIENCE:- (8)

Complete any two 4-credit Core Natural Science courses. Only one course may be Physics.

\_\_\_\_\_ ( ) \_\_\_\_\_ ( )

#### PHYSICS:- (8)

Phys 211X (4)\_\_\_\_\_ & Phys 212X (4)\_\_\_\_\_

#### LIBRARY & INFO SKILLS:- (0-1)

LS competency test \_\_\_\_\_ OR

LS 100X or 101X (1)\_\_\_\_\_

#### UPPER DIVISION CREDITS:- (39)

Transfer Credits \_\_\_\_\_

UAF Credits (24)\* \_\_\_\_\_

TOTAL TO DATE: \_\_\_\_\_

TO BE COMPLETED: \_\_\_\_\_

\*a minimum of 24 UAF credits

COMPLETE 2 DESIGNATED (W) COURSES

AND 1 DESIGNATED (O) COURSE OR 2

COURSES DESIGNATED (O/2) AT THE

UPPER DIVISION LEVEL:

\_\_\_\_\_ (W) \_\_\_\_\_ (W)

\_\_\_\_\_ (O) OR \_\_\_\_\_ (O/2) \_\_\_\_\_ (O/2)

(cscibsms)

1. You must be junior (preferred) or senior standing.
2. You must have a 3.25 or above gpa based on a minimum of 24 credits and maintain a cumulative gpa of 3.0 to remain in the program.
3. Must submit GRE (general).
4. Must submit study goal statement.
5. Must submit UAF graduate application for admission.

\*Designates only grades of "C" or better may be used to fulfill this requirement.

#### \*MAJOR REQUIREMENTS

##### 1. Complete the following:- (43)

CS 201 (3)\_\_\_\_\_

CS 471 (3)\_\_\_\_\_ (W)

CS 202 (3)\_\_\_\_\_

EE 341 (4)\_\_\_\_\_

CS 301 (3)\_\_\_\_\_

Engl 314 (3)\_\_\_\_\_ (W, O/2)

CS 311 (3)\_\_\_\_\_

Math 307 (3)\_\_\_\_\_

CS 321 (3)\_\_\_\_\_

Math \_\_\_\_\_ (3)\_\_\_\_\_ +

CS 331 (3)\_\_\_\_\_

Stat 300 (3)\_\_\_\_\_

CS 402 (3)\_\_\_\_\_ (O/W)

CS 441 (3)\_\_\_\_\_

+ 300 or 400-level

##### 2. Complete the following master core requirements (see notes):

###### a. Complete the following:- (18)

CS 611 (3)\_\_\_\_\_

CS 671 (3)\_\_\_\_\_

CS 631 (3)\_\_\_\_\_

CS 690 (3)\_\_\_\_\_

CS 641 (3)\_\_\_\_\_

CS 691 (3)\_\_\_\_\_

###### b. Complete 3 credits of upper division and/or graduate level elective:

\_\_\_\_\_ ( ) \_\_\_\_\_

###### c. Complete 6 credits of graduate level electives:

\_\_\_\_\_ ( ) \_\_\_\_\_ ( ) \_\_\_\_\_

###### d. Pass a written comprehensive exam in the areas of computer algorithms/theory/complexity, computer architecture, computer language, and software engineering.

NOTE: For the master's degree, you must earn an A or B grade in 400-level courses. The C grade will be accepted in 600 level courses provided a B gpa is maintained.

NOTE: This program must be completed in 7 years or you will be disqualified from the program. If you are disqualified, a BS in CS will be awarded if: 1) completed in 10 years, and 2) meet the BS degree requirements for CS (with option subbing CS 411/451 with CS 611/651

#### ELECTIVES (for a total of 141 credits):

\_\_\_\_\_ ( ) \_\_\_\_\_ ( ) \_\_\_\_\_

\_\_\_\_\_ ( ) \_\_\_\_\_ ( ) \_\_\_\_\_

\_\_\_\_\_ ( ) \_\_\_\_\_ ( ) \_\_\_\_\_

Credits for core/general requirements:	52
Credits required for major:	70
Elective credits:	15-19
Total credits required for degree	141