

# 2004-05 CATALOG

## MECHANICAL ENGINEERING

B.S. Degree Requirements  
130 Credits

### GENERAL REQUIREMENTS

#### COMMUNICATIONS:- (9)

Engl 111X (3)\_\_\_\_  
Engl 211X or 213X (3)\_\_\_\_  
Comm 131X or 141X (3)\_\_\_\_

#### PERSPECTIVES ON THE HUMAN CONDITION:- (18-22)

Complete the 6 courses listed **OR** 4 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)\_\_\_\_  
Art/Mus/Thr 200X or Hum 201X  
or Ans 202X (3)\_\_\_\_  
Engl/FL 200X (3)\_\_\_\_  
BA 323X or Comm 300X or Just 300X or Nrm 303X or  
Phil 322X or PS 300X (3)\_\_\_\_  
Language option as listed above:  
\_\_\_\_\_( ) \_\_\_\_\_ ( ) \_\_\_\_\_ ( )

#### MATHEMATICS:- (15)

Math 200X (4)\_\_\_\_ Math 202X (4)\_\_\_\_  
Math 201X (4)\_\_\_\_ Math 302 (3)\_\_\_\_

#### NATURAL SCIENCE:- (16)

Chem 105X (4)\_\_\_\_ Chem 106X (4)\_\_\_\_  
Phys 211X (4)\_\_\_\_ Phys 212X (4)\_\_\_\_

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

LS competency test \_\_\_\_ OR  
LS 100X or 101X (1)\_\_\_\_

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)

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

Transfer Credits \_\_\_\_  
UAF Credits (24)\* \_\_\_\_  
TOTAL TO DATE: \_\_\_\_  
TO BE COMPLETED: \_\_\_\_

\*a minimum of 24 UAF credits

*\*Designates only grades of "C" or better may be used to fulfill this requirement. (ME, Technical elective and ES 331, ES 341, ES/ME 308, and ES 346.)*

### \*MAJOR REQUIREMENTS

#### A. Complete the following:- (34)

M.E. 302 (4)\_\_\_\_  
M.E. 313 (3)\_\_\_\_  
M.E. 321 (3)\_\_\_\_  
M.E. 334 (3)\_\_\_\_  
M.E. 403 (3)\_\_\_\_  
M.E. 408 (3)\_\_\_\_  
M.E. 415 (3)\_\_\_\_(W)  
M.E. 441 (3)\_\_\_\_  
M.E. 487 (3)\_\_\_\_(W/O)  
M.E.\_\_\_\_(3)\_\_\_\_+  
M.E.\_\_\_\_(3)\_\_\_\_+

+Must be at the 400-level or above.

#### B. Complete a Technical elective engineering course at the 400-level or above:

\_\_\_\_\_(3)\_\_\_\_ ("C" grade or better)

#### C. Complete the following: Must earn a "C" grade or better in ES/ME 308, ES 331, ES 341 and ES 346:- (33)

E.S. 101 (2)\_\_\_\_  
E.S. 201 (3)\_\_\_\_  
E.S. 209 (3)\_\_\_\_  
E.S. 210 (3)\_\_\_\_  
E.S. 301 (3)\_\_\_\_  
E.S. 307 (3)\_\_\_\_  
E.S. / M.E. 308 (3)\_\_\_\_  
E.S. 331 (3)\_\_\_\_\*  
E.S. 341 (4)\_\_\_\_\*  
E.S. 346 (3)\_\_\_\_\*  
ESM 450 (3)\_\_\_\_(W)

#### D. Complete 2 elective credits:

\_\_\_\_\_(2)\_\_\_\_

#### E. Complete the Fundamental Engineering Exam:\_\_\_\_\_

*Note: Students electing to complete the aerospace engineering concentration must complete the following as part of their program requirements ("C" or better grades):*

ME 450 (3)\_\_\_\_  
ME 451 (3)\_\_\_\_  
ME 452 (3)\_\_\_\_  
ME 453 (3)\_\_\_\_

Credits for core/general requirements:	59
Credits required for major:	70
Elective credits:	<u>2</u>
Total credits required for degree	130