

2009-10 CATALOG  
MECHANICAL ENGINEERING  
B.S./M.S. Degree Requirements  
150 Credits

Please contact Mechanical Engineering  
dept if you wish to pursue this degree.

GENERAL REQUIREMENTS

COMMUNICATION:-(9)  
Engl 111X (3)\_\_\_\_  
Engl 211X or 213X (3)\_\_\_\_  
Comm 131X or 141X (3)\_\_\_\_

PERSPECTIVES ON THE HUMAN CONDITION:

Complete 6 courses or 4 courses plus 2  
semester-length courses in a single Alaska  
Native language 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 OR Ans 202X(3)\_\_\_\_  
BA 323X or Comm 300X or Just 300X or  
Nrm 303X or Phil 322X or PS 300X (3)\_\_\_\_  
Language Requirement:  
\_\_\_\_\_( ) \_\_\_\_\_( ) \_\_\_\_\_( )

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)\_\_\_\_

WRITING/ORAL INTENSIVES:

Complete 2 designated (W) courses and  
1 designated (O) or 2 courses designated  
(O/2) at the upper division level.

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

UPPER DIVISION CREDITS:-(39)

Transfer Credits \_\_\_\_  
UA Credits (24)\* \_\_\_\_  
UAF Credits (15) \_\_\_\_

Total to date: \_\_\_\_  
To be completed: \_\_\_\_  
\*a minimum of 24 UA credits

NOTE: For the master's degree, you must earn an A or B grade in 400-level courses. A "C"  
grade will be accepted in 600-level courses provided a 3.0 GPA is maintained.

NOTE: This program must be completed in 7 years or you will be disqualified from the  
program. If a student is disqualified for exceeding the 7 year limit for the fast track  
degree program, a ME B.S. will be awarded if: 1) completed in 10 years, and 2) meet ME  
B.S. requirements.

(mecd-bsms)

1. ME major (junior preferred) or senior standing
2. GPA 3.25 or above based on 24 credits in ME major requirements  
and maintain a cumulative GPA of 3.0 to remain in the program
3. 3 letters of references.
4. Submit GRE (general) scores.
5. Submit Study goal statement.
6. Submit UAF graduate application for admission

\*Designates only grades of "C" or better may be used to fulfill this  
requirement (except ES101)

\*MAJOR REQUIREMENTS

1. Complete the following B.S. program (major) requirements:

ES 101 (3)\_\_\_\_ ME 302 (4)\_\_\_\_  
ES 201 (3)\_\_\_\_ ME 308 (3)\_\_\_\_  
ES 209 (3)\_\_\_\_ ME 313 (3)\_\_\_\_  
ES 210 (3)\_\_\_\_ ME 321 (3)\_\_\_\_  
ES 301 (3)\_\_\_\_ ME 334 (3)\_\_\_\_  
ES 307 (3)\_\_\_\_ ME 403 (3)\_\_\_\_  
ES 331 (3)\_\_\_\_ ME 408 (3)\_\_\_\_  
ES 341 (4)\_\_\_\_ ME 415 (3)\_\_\_\_(W)  
ES 346 (3)\_\_\_\_ ME 441 (3)\_\_\_\_  
ESM 450 (3)\_\_\_\_(W) ME 487 (3)\_\_\_\_(W,O)

2. Complete the following M.S. program (major) requirements:

ME 631 (3)\_\_\_\_  
ME 634 (3)\_\_\_\_  
ME 641 (3)\_\_\_\_  
ME 642 (3)\_\_\_\_  
ME 608 (3)\_\_\_\_

3. Complete the thesis or non-thesis requirements:

Thesis  
ME 699 (6)\_\_\_\_  
Electives\* (9)  
\_\_\_\_\_( ) \_\_\_\_\_( )  
\_\_\_\_\_( ) \_\_\_\_\_( )

\*At least 3 credits at graduate level

Non-Thesis

ME 698 (3)\_\_\_\_  
Electives\* (12)  
\_\_\_\_\_( ) \_\_\_\_\_( )  
\_\_\_\_\_( ) \_\_\_\_\_( )

\*At least 6 credits at graduate level

NOTE: Electives are ME or other engineering, science, or  
mathematics courses at F400-level or above approved by the  
student's advisory committee.

After Addition  
of ME486(1 credit)  
Total # of credits  
should be 58  
151 + 93  
151

(In 2012/2013  
Catalog, the total # of  
Credits  
Should be  
150  
instead  
of 151 as  
listed in  
the 2014/13  
Catalog)