MECHANICAL ENGINEERING

B.S. Degree Requirements
131 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.

A. Complete the following:- (37)

- M.E. 302 (4)
- M.E. 308 (3)
- M.E. 313 (3)
- M.E. 321 (3)
- M.E. 334 (3)
- M.E. 403 (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 331, ES 341 and ES 346:

- E.S. 101 (3)
- E.S. 201 (3)
- E.S. 209 (3)
- E.S. 210 (3)
- E.S. 301 (3)
- E.S. 307 (3)
- E.S. 331 (3)
- E.S. 341 (4)
- E.S. 346 (3)
- ESM 450 (3)

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) and complete a senior design project that is related to aerospace engineering:

- ME 450 (3)
- ME 452 (3)
- ME 451 (3)
- ME 453 (3)

Note: Students selecting to complete the petroleum engineering concentration must complete the following as part of their program requirements (*C* or better grades) and complete a senior design project that is related to petroleum engineering:

- ME 409 (3)
- ME 416 (3)

*Designates only grades of "C" or better may be used to fulfill this requirement, with the exception of ES 101.

MATHEMATICS: (15)

- Math 200X (4)
- Math 201X (4)
- Math 202X (4)
- Math 203 (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

Credits for core/general requirements:  
58

Credits required for major:  
71

Elective credits:  
2

Total credits required for degree  
131
Notes

1. The semester-by-semester breakdown is a suggestion only. You should consult with your advisor to work out a schedule.
2. Prerequisites for certain courses are listed in parentheses at the end. You should consult the catalog for additional details.
3. All ME required courses are offered once a year.
4. All ES courses are usually offered every semester with the exception of ES 307 (Fall).
5. ESM 450W is usually offered every semester.