

It is recommended that you use DegreeWorks on your [UAOnline](#) account for the most up to date and reliable degree requirements.

**This worksheet is for planning purposes only!**

**Total credits needed as per catalog: 130**

### General UAF Requirements:

#### **COMMUNICATIONS: (9)**

ENGL 111X (3) \_\_\_\_\_  
ENGL 211X or 213X (3) \_\_\_\_\_  
COMM 131X or 141X (3) \_\_\_\_\_

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

*Complete 6 of the 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) \_\_\_\_\_  
HIST100X (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 251X (4) \_\_\_\_\_ MATH 252X (4) \_\_\_\_\_  
MATH 253X (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 100X or 101X (1) \_\_\_\_\_  
or LS competency test (0) \_\_\_\_\_

*Complete 2 designated (W) courses AND 1 designated (O) course OR 2 courses designated (O/2) at the upper division level: (these are built in to our program)*

ESM 450 (W) ME 415 (W)  
ME 487 (O)

Must have 39 **UPPER DIVISION CREDITS**  
**and** minimum of 24 UAF credits

### Mechanical Engineering Major Requirements:

#### **A. Complete the following: (32)**

ME 302 (4) \_\_\_\_\_  
ME 308 (3) \_\_\_\_\_  
ME 313 (3) \_\_\_\_\_  
ME 321 (3) \_\_\_\_\_  
ME 334 (3) \_\_\_\_\_  
ME 403 (3) \_\_\_\_\_  
ME 408 (3) \_\_\_\_\_  
ME 415 (3) \_\_\_\_\_ (W)  
ME 441 (3) \_\_\_\_\_  
ME 486 (1) \_\_\_\_\_  
ME 487 (3) \_\_\_\_\_ (W/O)

#### **B. Complete electives (9)**

(Can be courses taken for either concentration listed below)

ME \_\_\_\_\_ (3) \_\_\_\_\_ \*  
ME \_\_\_\_\_ (3) \_\_\_\_\_ \*  
\*Electives must be at the 400-level or above.  
\_\_\_\_\_ (3) \_\_\_\_\_

*Technical elective engineering course at the 400-level or above, work with advisor*

#### **C. Complete the following: (31)**

ES 101 (3) \_\_\_\_\_  
ES 201 (3) \_\_\_\_\_  
ES 209 (3) \_\_\_\_\_  
ES 210 (3) \_\_\_\_\_  
ES 301 (3) \_\_\_\_\_  
ES 307 (3) \_\_\_\_\_  
ES 331 (3) \_\_\_\_\_  
ES 341 (4) \_\_\_\_\_  
ES 346 (3) \_\_\_\_\_  
ESM 450 (3) \_\_\_\_\_ (W)

#### **D. Complete the Fundamentals of Engineering (FE) Exam**

##### **Available concentrations:**

##### **Aerospace Engineering Concentration:**

*(must complete the following as part of their program requirements and complete a senior design project (ME486/487) that is related to aerospace engineering)*

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

##### **Petroleum Engineering Concentration:**

*(must complete the following as part of their program requirements and complete a senior design project (ME486/487) that is related to petroleum engineering)*

ME 409 (3) \_\_\_\_\_ ME 416 (3) \_\_\_\_\_  
ME 464 (3) \_\_\_\_\_ PETE 426 (3) \_\_\_\_\_