

# 2001-02 CATALOG

## ELECTRICAL ENGINEERING

B.S. Degree Requirements  
134 Credits

### GENERAL REQUIREMENTS

#### COMMUNICATIONS:- (9)

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

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

Complete 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 (3)  
or Ans 202X (3)\_\_\_\_  
Engl/FI 200X (3)\_\_\_\_  
Comm 300X or Just 300X or Nrm 303X or  
Phil 322X or PS 300X (3)\_\_\_\_  
Language Requirement:  
\_\_\_\_\_( ) \_\_\_\_\_( ) \_\_\_\_\_( ) \_\_\_\_\_

#### MATHEMATICS:- (18)

Math 200X (4)\_\_\_\_ Math 201X (4)\_\_\_\_  
Math 202X (4)\_\_\_\_ Math 302 (3)\_\_\_\_  
1 course from:  
Math 310 (3)\_\_\_\_ Math 314 (3)\_\_\_\_  
Math 371 (3)\_\_\_\_ Math 401 (3)\_\_\_\_(W)  
Math 421 (4)\_\_\_\_ Math 422 (4)\_\_\_\_

#### NATURAL SCIENCE:- (16)

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

#### LIBRARY INFORMATION & RESEARCH:- (1)

LS 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: \_\_\_\_\_  
\*a minimum of 24 UAF credits

PLEASE NOTE: Grades of 'C' or better are required for all E.E. courses.

#### \*MAJOR REQUIREMENTS:

##### A. Complete the following:- (41)

E.E. 102 (3)\_\_\_\_ E.E. 333 (4)\_\_\_\_(W)  
E.E. 203 (4)\_\_\_\_ E.E. 334 (4)\_\_\_\_  
E.E. 204 (4)\_\_\_\_ E.E. 353 (3)\_\_\_\_  
E.E. 303 (4)\_\_\_\_ E.E. 354 (3)\_\_\_\_  
E.E. 311 (3)\_\_\_\_ E.E. 442 OR E.E. 343 (4)\_\_\_\_  
E.E. 331 (1)\_\_\_\_ E.E. 471 (4)\_\_\_\_

##### B. Complete at least 6 credits of Technical elective.

At least 1 course must come from the following:

E.E. 434 (4)\_\_\_\_(W,O)  
E.E. 464 (4)\_\_\_\_(W,O)  
E.E. \_\_\_\_\_( )\_\_\_\_(elective)  
(Any upper division EE course EXCEPT 341 or EE 342.)

##### C. Complete the following:

E.S. 101 (2)\_\_\_\_  
E.S. 201 or CS 201 (3)\_\_\_\_  
E.S. 208 (4)\_\_\_\_  
E.S. 331,341,346 OR  
ES/ME 334 (3/4)\_\_\_\_  
ESM 450 (3)\_\_\_\_(W)

##### D. Complete 1 concentration:

###### Communications:

E.E. 312 (3)\_\_\_\_  
E.E. 332 (1)\_\_\_\_  
E.E. 461 (4)\_\_\_\_  
E.S. 331,341,346 OR  
ES/ME 334 (3/4)\_\_\_\_

###### Power & Control:

E.E. 404 (4)\_\_\_\_  
E.E. 406 (4)\_\_\_\_  
E.S. 331,341,346 OR  
ES/ME 334 (3/4)\_\_\_\_+  
+Course may not satisfy the same requirement under "C"

##### Computer Engineering:- (12)

E.E. 443 (4)\_\_\_\_  
E.E. 451 (4)\_\_\_\_  
E.E. 461 (4)\_\_\_\_

##### E. Complete the Fundamentals of

Engineering Exam: \_\_\_\_\_

Credits required for core:	62
Credits required for major:	73-75
Total credits required for degree	134