Engineering Ph.D.

Program Requirements

Catalog Department Overview # (https://catalog.uaf.edu/academic-departments/electrical-computer-engineering/)

Minimum Requirements for Engineering Doctorate Degree: 36 credits

Concentrations: Arctic, Civil, Computer, Electrical, Engineering Management, Environmental, Geological, Mechanical, Mining, Petroleum

Code	Title	Credits
General University Requirements		
Complete the graduate general university requirements. (https://catalog.uaf.edu/phd/#gurphdtext)		
Ph.D. Degree Requirements		
Complete the Ph.D. degree requirements. (https://catalog.uaf.edu/phd/#phdrequirementstext) [1]		18
Engineering Program Requirements		
Complete at least 18 credits of coursework beyond the M.S. degree.		18
Complete at least three full-time semesters of residency, which may include a summer semester. [2]		
Complete and pass a written and oral comprehensive examination.		
Complete and submit a written thesis proposal for approval.		
Complete a research program as arranged with the graduate advisory committee.		
Complete a thesis that is a substantial contribution to the body of knowledge in engineering and pass an oral defense of the thesis.		
Total Credits		**36**

1 Requires 18 thesis credits.

2 Residency is defined as living in the Fairbanks area and working with the student's graduate advisor and graduate committee while taking courses at UAF.

Admission Requirements

Complete the following admission requirements:

- Complete either a B.S. or M.S. degree in engineering.
- Complete a master's degree in engineering or a closely related field.
- Submit GRE scores.

Learning Outcomes

Catalog Department Overview # (https://catalog.uaf.edu/academic-departments/electrical-computer-engineering/)

Learning Outcomes are measurable statements that describe knowledge or skills achieved by students upon completion of the program.

Students graduating from this program will be able to:

- Demonstrate the technical ability and knowledge to function as professionals in their engineering concentration area(s)
- Demonstrate the ability to perform independent research in areas associated with their engineering concentration area(s)
- Enter professional careers in areas associated with their engineering concentration area(s)