Physics, Space

College of Natural Science and Mathematics Department of Physics (907) 474-7339 www.uaf.edu/physics/

M.S., Ph.D. Degrees

Minimum Requirements for Degrees: M.S.: 30-33 credits; Ph.D.: 18 thesis credits

Space physics focuses on the physics of upper atmospheres, ionospheres, magnetospheres and the interplanetary medium. It includes core physics courses and specialty courses in space physics, aeronomy, magnetospheric and auroral physics, and advanced plasma physics. The specialty courses support graduate research with faculty members at UAF's Geophysical Institute, and include areas such as numerical simulations and time-series analysis. Additional courses such as radiative transfer and physics of fluids provide added breadth.

Graduate Program—M.S. Degree

- 1. Complete the general university requirements (page 168).
- 2. Complete the master's degree requirements (page 172).
- 4. Complete the thesis or non-thesis requirements:

Thesis

a. Complete the following:	
PHYS 699—Thesis	6-12
Approved PHYS electives	12
b. Minimum credits required	30-33

Non-Thesis

Non-Thesis	
a. Complete the following:	
Approved PHYS electives	18
PHYS 698—Research	3-6
b. Minimum credits required	30-33

Graduate Program—Ph.D. Degree

- 1. Complete the general university requirements (page 168).
- 2. Complete the Ph.D. degree requirements (page 172).*
- 3. Complete and pass a written and oral comprehensive examination.
- 4. Demonstrate competency in a foreign language or a research tool.

manual for graduate students. See Physics.

Note: Page numbers refer to the UAF 2005-2006 academic catalog, which can be viewed online at www.uaf.edu/catalog/.

