

# Chemistry

College of Natural Science and Mathematics  
Department of Chemistry and Biochemistry  
(907) 474-5510  
[www.uaf.edu/chem/](http://www.uaf.edu/chem/)

## M.A., M.S. Degrees

Minimum Requirements for Degrees: 30 credits

Graduates in chemistry qualify for employment in many fields as teachers of chemistry; supervisors in industry; technical sales personnel; research chemists in federal, state, municipal, academic or industrial laboratories; in pre-medicine; and as laboratory technicians. The rapid introduction of chemical techniques in all branches of commerce and the creation of many synthetic products have caused substantial growth in the profession. In addition to the traditional employment opportunities in chemistry, well-qualified graduates find positions in the fields of environmental sciences, oceanography and related interdisciplinary fields. Many recipients of chemistry master's degrees continue their education to obtain Ph.D. degrees at other universities.

The department offers well-equipped laboratories housing instrumentation for nuclear magnetic resonance spectrometry, infrared, ultraviolet/visible, and atomic absorption spectrophotometry, mass spectrometry, gas chromatography, amino acid analysis and HPLC. Additional equipment for gas chromatography/mass spectrometry, x-ray diffractometry, electron microscopy and liquid scintillating counters is available in cooperation with other UAF departments and institutes.

### Graduate Program—M.A. Degree\*

1. Complete the requirements for the M.S. degree in chemistry.  
*\* This is a non-thesis degree program. Substitute a research project (CHEM 698) for thesis.*

### Graduate Program—M.S. Degree

1. Complete the general university requirements (page 168).
2. Complete the master's degree requirements (page 172).
3. Complete a research-based thesis.
4. Complete seminar.....2
5. Complete at least 1 semester of assisting in an undergraduate chemistry laboratory.
6. Minimum credits required.....30  
See Biochemistry and Molecular Biology.  
See Chemistry.  
See Environmental Chemistry.

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