Dentistry
Pre-Professional Advising
(907) 474-6396

Dentistry is concerned with the prevention, diagnosis, and treatment of oral disease and disorders. Professional dental study typically involves a four-year program of graduate classroom instruction, lab work and hands-on patient treatment. Students who want to specialize within the field may pursue advanced training at the post-doctoral level. Specialists and general dentists must be licensed by the state before practicing.

While a definite pre-dentistry curriculum is not required for admission to dental school, students planning to apply should include specific courses in their undergraduate studies. At UAF, these are biology (BIOL 105X and 106X), chemistry (CHEM 103X and 104X, or 105X and 106X), organic chemistry with lab (CHEM 321, 322, and 324), and physics (PHYS 103X and 104X). Some schools suggest additional science course work in areas such as anatomy and physiology (BIOL 111X and 112X).

Baccalaureate Core Requirements
All degrees (e.g. B.A., B.S., etc.) require additional courses. Refer to specific degree and program requirements.

**COMMUNICATION (9)**
Complete the following:
ENGL 111X .................................................................(3) ___
ENGL 190H may be substituted.

Complete one of the following:
ENGL 211X OR ENGL 213X .................................................(3) ___

Complete one of the following:
COMM 131X OR COMM 141X .............................................(3) ___

**PERSPECTIVES ON THE HUMAN CONDITION (18)**
Complete all of the following four courses:
ANTH 100X/50X 100X ....................................................(3) ___
ECOW 100X OR PS 100X ..................................................(3) ___
HIST 100X .................................................................(3) ___
ENGL/FL 200X ............................................................(3) ___

Complete one of the following three courses:
ART/MUS/THR 200X, HUM 201X OR ANS 202X ..........(3) ___

Complete one of the following six courses:
BA 323X, COMM 300X, JUST 300X, NRM 303X,
PS 300X OR PHIL 322X ..................................................(3) ___

OR complete 12 credits from the above courses PLUS
* two semester-length courses in a single Alaska Native language or other non-English language OR
* three semester-length courses (9 credits) in American Sign Language taken at the university level.

**MATHEMATICS (3)**
Complete one of the following:
MATH 107X, MATH 161X OR MATH 103X ......................(3-4) ___
* No credit may be earned for more than one of MATH 107X or 161X.

OR complete one of the following:
MATH 200X, MATH 201X, MATH 202X,
MATH 262X OR MATH 272X ...........................................(4) ___
*Or any math course having one of these as a prerequisite

**NATURAL SCIENCES (8)**

Complete any two (4-credit) courses:
ATM 101X .................................................................(4) ___
BIOL 100X .................................................................(4) ___
BIOL 103X .................................................................(4) ___
BIOL 104X .................................................................(4) ___
BIOL 105X .................................................................(4) ___
BIOL 106X .................................................................(4) ___
BIOL 111X .................................................................(4) ___
BIOL 112X .................................................................(4) ___

CHEM 100X .................................................................(4) ___
CHEM 103X .................................................................(4) ___
CHEM 104X .................................................................(4) ___
CHEM 105X .................................................................(4) ___
CHEM 106X .................................................................(4) ___

GEOS 100X .................................................................(4) ___
GEOS 101X .................................................................(4) ___
GEOS 112X .................................................................(4) ___
GEOS 120X .................................................................(4) ___
GEOS 123X .................................................................(4) ___

MSL 111X .................................................................(4) ___

PHYS 102X .................................................................(4) ___
PHYS 103X .................................................................(4) ___
PHYS 104X .................................................................(4) ___
PHYS 113X .................................................................(4) ___
PHYS 116X .................................................................(4) ___

PHYS 175X .................................................................(4) ___

PHYS 211X .................................................................(4) ___

PHYS 212X .................................................................(4) ___

PHYS 213X .................................................................(4) ___

**LIBRARY AND INFORMATION RESEARCH (0–1)**
Successful completion of library skills competency test OR
LS 100X or 101X prior to junior standing ......................(0–1) ___

**UPPER-DIVISION WRITING AND ORAL COMMUNICATION (0)**
Complete the following:
Two writing intensive courses designated (W) .....................(0) ___
One oral communication intensive course designated (O) .......(0) ___
OR two oral communication intensive courses designated (O/2), at the upper-division level (see degree and/or major requirements) ......(0) ___

**TOTAL CREDITS REQUIRED........................................38–39**
Law education prepares students to become attorneys, judges, public servants, teachers or administrators in government or the private sector. Attorneys are concerned with the interpretation of law and its application to specific situations. This involves in-depth research, writing reports and briefs, advising clients and representing parties in the courts.

Law school consists of three years of graduate-level study. Instruction includes classroom lectures and discussion, considerable research and practice of courtroom procedures. Law school graduates must pass a state bar exam in order to practice.

### Baccalaureate Core Requirements

All degrees (e.g. B.A., B.S., etc.) require additional courses. Refer to specific degree and program requirements.

#### COMMUNICATION (9)

Complete the following:

- ENGL 111X .................................................................(3)
  - ENGL 190H may be substituted.

Complete one of the following:

- ENGL 211X OR ENGL 213X .............................................(3)
- Complete one of the following:
  - COMM 131X OR COMM 141X ..........................................(3)

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

Complete all of the following four courses:

- ANTH 100X/SOC 100X ....................................................(3)
- ECON 100X OR PS 100X .....................................................(3)
- HIST 100X ......................................................................(3)
- ENGL/FIL 200X ..............................................................(3)

Complete one of the following three courses:

- ART/MUS/THR 200X, HUM 201X .................................(3)

Complete one of the following six courses:

- BA 323X, COMM 300X, JUST 300X, NRM 303X, PS 300X OR PHIL 322X .................................................(3)
- Complete 12 credits from the above courses PLUS
  - two semester-length courses in a single Alaska Native language or other non-English language OR
  - three semester-length courses (9 credits) in American Sign Language taken at the university level.

#### MATHEMATICS (3)

Complete one of the following:

- MATH 107X, MATH 161X OR MATH 103X .........................(3-4)
  - *No credit may be earned for more than one of MATH 107X or 161X.*

OR complete one of the following:

- MATH 200X, MATH 201X, MATH 202X,
- MATH 262X OR MATH 272X ..............................................(4)
  - *Or any math course having one of these as a prerequisite*

#### NATURAL SCIENCES (8)

Complete any two (4-credit) courses:

- ATM 101X .................................................................(4)
- BIOL 100X ...............................................................(4)
- BIOL 103X ...............................................................(4)
- BIOL 104X ...............................................................(4)
- BIOL 105X ...............................................................(4)
- BIOL 106X ...............................................................(4)
- BIOL 111X ...............................................................(4)
- BIOL 112X ...............................................................(4)
- CHEM 100X ............................................................(4)
- CHEM 103X ............................................................(4)
- CHEM 104X ............................................................(4)
- CHEM 105X ............................................................(4)
- CHEM 106X ............................................................(4)
- GEOG 205X ............................................................(4)
- GEO 100X ..............................................................(4)
- GEO 101X ..............................................................(4)
- GEO 112X ..............................................................(4)
- GEO 120X ..............................................................(4)
- GEO 125X ..............................................................(4)
- MSL 111X ...............................................................(4)
- PHYS 102X .............................................................(4)
- PHYS 103X .............................................................(4)
- PHYS 104X .............................................................(4)
- PHYS 113X .............................................................(4)
- PHYS 116X .............................................................(4)
- PHYS 173X .............................................................(4)
- PHYS 211X .............................................................(4)
- PHYS 212X .............................................................(4)
- PHYS 213X .............................................................(4)

#### UPPER-DIVISION WRITING AND ORAL COMMUNICATION (0)

Complete the following:

- Two writing intensive courses designated (W) ...................(0)
- One oral communication intensive course designated (O) .......(0)

OR two oral communication intensive courses designated (O/2), at the upper-division level (see degree and/or major requirements) ........(0)

**TOTAL CREDITS REQUIRED: 38-39**
Library Science
Pre-Professional Advising
(907) 474-6396

A graduate degree in library and information science prepares students for professional positions in the management of information in libraries and other environments. According to one graduate program description, the “contemporary librarian has become an essential part of the complex communication/information network that now encircles the globe. Today’s information professional must understand how information is created and disseminated in society; must be familiar with print, non-print, and electronic media; and must be adept in the use of computers, automated techniques, and information networks.”

One to two years of graduate course work in a broad spectrum of areas is generally required for a professional career in library science. The program covers planning and evaluation related to acquiring, organizing and accessing information in library settings. Students also learn to manage, design and deliver information services. Some programs may offer special emphasis on topics such as law or medicine.

Library schools prepare professionals from a variety of academic backgrounds. The caliber of the applicant’s undergraduate work and results of the Graduate Record Exam (GRE) are important considerations for acceptance to a professional library studies program.

At UAF, pre-library science students pursue an extensive general undergraduate education. Courses in computer applications and programming, statistics, and foreign languages help to satisfy the demands and admission requirements of graduate programs in library science. A background in the social and physical sciences is equally important as the number of special libraries increases. Advisement for students interested in library science is available through the Academic Advising Center. See www.uaf.edu/advising/degree/preprof/libraryscience.html for more information.

Baccalaureate Core Requirements
All degrees (e.g. B.A., B.S., etc.) require additional courses. Refer to specific degree and program requirements.

COMMUNICATION (9)

Complete the following:

- ENGL 111X ........................................... (3)

ENGL 190H may be substituted.

Complete one of the following:

- ENGL 211X OR ENGL 213X ....................... (3)

Complete one of the following:

- COMM 131X OR COMM 141X .................... (3)

PERSPECTIVES ON THE HUMAN CONDITION (18)

Complete all of the following four courses:

- ANTH 100X/SOC 100X ................................. (3)
- ECON 100X OR PS 100X .............................. (3)
- HIST 100X ............................................... (3)
- ENGL/FSL 200X ........................................ (3)

Complete one of the following three courses:

- ART/MUS/THR 200X, HUM 201X OR ANS 202X ................................. (3)

Complete one of the following six courses:

- BA 323X, COMM 300X, JUST 300X, NRM 303X, PS 300X OR PHIL 322X, ............................................. (3)
- OR complete 12 credits from the above courses PLUS

  - two semester-length courses in a single Alaska Native language or other non-English language OR
  - three semester-length courses (9 credits) in American Sign Language taken at the university level.

MATHEMATICS (3)

Complete one of the following:

- MATH 107X, MATH 161X OR MATH 103X ............................................. (3-4)
  * No credit may be earned for more than one of MATH 107X or 161X.

OR complete one of the following:

- MATH 200X, MATH 201X, MATH 202X,
  MATH 262X OR MATH 272X ............................................. (4)
  * Or any math course having one of these as a prerequisite

NATURAL SCIENCES (8)

Complete any two (4-credit) courses:

- ATM 101X ...................................................... (4)
- BIOL 100X ..................................................... (4)
- BIOL 103X ..................................................... (4)
- BIOL 104X ..................................................... (4)
- BIOL 105X ..................................................... (4)
- BIOL 106X ..................................................... (4)
- BIOL 111X ..................................................... (4)
- BIOL 112X ..................................................... (4)
- CHEM 100X ..................................................... (4)
- CHEM 103X ..................................................... (4)
- CHEM 104X ..................................................... (4)
- CHEM 105X ..................................................... (4)
- CHEM 106X ..................................................... (4)
- CHEM 205X ..................................................... (4)
- GEOS 100X ..................................................... (4)
- GEOS 101X ..................................................... (4)
- GEOS 111X ..................................................... (4)
- GEOS 120X ..................................................... (4)
- GEOS 125X ..................................................... (4)
- MSL 111X ..................................................... (4)
- PHYS 102X ..................................................... (4)
- PHYS 103X ..................................................... (4)
- PHYS 104X ..................................................... (4)
- PHYS 113X ..................................................... (4)
- PHYS 116X ..................................................... (4)
- PHYS 175X ..................................................... (4)
- PHYS 211X ..................................................... (4)
- PHYS 212X ..................................................... (4)
- PHYS 213X ..................................................... (4)

LIBRARY AND INFORMATION RESEARCH (0–1)

Successful completion of library skills competency test OR

LS 100X or 101X prior to junior standing ........................................ (0–1)

UPPER-DIVISION WRITING AND ORAL COMMUNICATION (0)

Complete the following:

Two writing intensive courses designated (W) .................. (0)
One oral communication intensive course designated (O) ........ (0)
OR one oral communication intensive courses designated (O/2), at the upper-division level (see degree and/or major requirements) ....... (0)

TOTAL CREDITS REQUIRED......................................................... 38–39
Physicians serve a broad range of medical functions. They diagnose disease, prescribe treatment, supervise patient care, and participate in the improved delivery of health services. Many physicians branch off into basic and applied medical research, teaching, or administration.

Professional medical education consists of four years of graduate-level study. Typically, the first two years of medical school are composed of classroom instruction and laboratory work, and the second two years consist of clinical rotations. Medical school graduates may elect to continue their training in a one-year internship and/or a one- to three-year residency. The residency option is required in order to specialize in medicine.

Medical schools evaluate each applicant’s overall academic achievement together with results of the Medical College Admission Test (MCAT). While medical schools do not require a specific undergraduate major, they generally expect applicants to have a foundation in biology, chemistry and physics. UAF courses that satisfy these requirements include biology (Biol 103X and 106X), chemistry (Chem 103X and 104X, or 105X and 106X), organic chemistry with lab (Chem 321, 322, and 324), and physics (Phys 103X and 104X). Other science course work such as anatomy and physiology (Biol 111X and 112X), as well as a background in the social sciences and humanities, is not usually required for admission but can strengthen a pre-med curriculum. Medical schools will consider applicants for admission after their third year of undergraduate work, but most entering medical students have completed a bachelor’s degree.

Students who are considering medicine as a career choice should contact the dean of the College of Natural Science and Mathematics or the Academic Advising Center. An academic advisor will help the student with pre-med program advisement, exploration of professional schools and licensing requirements, and financial planning. See www.uaf.edu/advising/degree/preprof/medicine.html for more information.

### Baccalaureate Core Requirements

All degrees (e.g. B.A., B.S., etc.) require additional courses. Refer to specific degree and program requirements.

#### COMMUNICATION (9)

**Complete the following:**

ENGL 111X .................................................................(3)  

ENGL 190H may be substituted.

**Complete one of the following:**

ENGL 211X OR ENGL 213X ............................................(3)

**Complete one of the following:**

COMM 131X OR COMM 141X ........................................(3)

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

**Complete all of the following four courses:**

ANTH 100X/SOC 100X ...................................................(3)

ECON 100X OR PS 100X ...................................................(3)

HIST 100X ......................................................................(3)

ENGL/FL 200X ...............................................................(3)

**Complete one of the following three courses:**

ART/MUS/THR 200X, HUM 201X OR ANS 202X ..........(3)

**Complete one of the following six courses:**

BA 323X, COMM 300X, JUST 300X, NRM 303X, PS 300X OR PHIL 322X ......................................................(3)

**OR** complete 12 credits from the above courses PLUS

- two semester-length courses in a single Alaska Native language or other non-English language OR

- three semester-length courses (9 credits) in American Sign Language taken at the university level.

#### MATHEMATICS (3)

**Complete one of the following:**

MATH 107X, MATH 161X OR MATH 103X ...........................(3-4)

* No credit may be earned for more than one of MATH 107X or 161X.

**OR complete one of the following:**

MATH 200X, MATH 201X, MATH 202X, MATH 262X OR MATH 272X .........................................................(4)

* Or any math course having one of these as a prerequisite

#### NATURAL SCIENCES (8)

**Complete any two (4-credit) courses:**

ATM 101X .................................................................(4)

Biol 100X .................................................................(4)

Biol 103X .................................................................(4)

Biol 104X .................................................................(4)

Biol 105X .................................................................(4)

Biol 106X .................................................................(4)

Biol 111X .................................................................(4)

Biol 112X .................................................................(4)

Chem 100X ...............................................................(4)

Chem 103X ...............................................................(4)

Chem 104X ...............................................................(4)

Chem 105X ...............................................................(4)

Chem 106X ...............................................................(4)

Geog 205X ...............................................................(4)

Geos 100X ...............................................................(4)

Geos 101X ...............................................................(4)

Geos 112X ...............................................................(4)

Geos 120X ...............................................................(4)

Geos 125X ...............................................................(4)

Msl 111X .................................................................(4)

Phys 102X ...............................................................(4)

Phys 103X ...............................................................(4)

Phys 104X ...............................................................(4)

Phys 113X ...............................................................(4)

Phys 116X ...............................................................(4)

Phys 173X ...............................................................(4)

Phys 211X ...............................................................(4)

Phys 212X ...............................................................(4)

Phys 213X ...............................................................(4)

**LIBRARY AND INFORMATION RESEARCH (0–1)**

Successful completion of library skills competency test OR

LS 100X or 101X prior to junior standing ...............................(0–1)

**UPPER-DIVISION WRITING AND ORAL COMMUNICATION (0)**

**Complete the following:**

Two writing intensive courses designated (W) ......................(0)

One oral communication intensive course designated (O) ......(0)

**OR** two oral communication intensive courses designated (O/2), at the upper-division level (see degree and/or major requirements) ..........(0)

**TOTAL CREDITS REQUIRED ..................................................38–39**
Pharmacy
Pre-Professional Advising
(907) 474-6396

Pharmacists play a vital health care role. Pharmacists are drug experts whose responsibilities include a range of care for patients, from dispensing medications to maximizing patients’ response to drugs.

Most schools with pharmacy programs offer a doctoral degree. The degree requires 6 years to complete, the first two of which are spent pursuing pre-pharmacy general education requirements (completed at the intended pharmacy school or transferred to that school); the last four years encompass pharmacy courses and professional preparation taken in residence at a pharmacy school.

Admission to a pharmacy school is competitive, so take advantage of any course work or experience that may give you an added edge. A minimum GPA is required by some schools, but attaining the minimum does not guarantee admission. Prerequisite courses typically required before being admitted to a pharmacy program include general chemistry with lab (CHEM 105X, 106X), organic chemistry with lab (CHEM 321, 322 and 324), physics (PHYS 103 and 104), mathematics (MATH 107X, 108, 200X, and/or 201X) and English (ENGL 111X, 211X/213X) among others. Careful planning is necessary because course requirements differ among schools.

Students considering a career as a pharmacist can learn more at www.uaf.edu/advising/degree/preprof/pharmacy.html and should see an advisor in the Academic Advising Center.

---

**Baccalaureate Core Requirements**

All degrees (e.g. B.A., B.S., etc.) require additional courses. Refer to specific degree and program requirements.

**COMMUNICATION (9)**

Complete the following:

- ENGL 111X .................................................................(3)
  
  ENGL 190H may be substituted.

Complete one of the following:

- ENGL 211X OR ENGL 213X ...........................................(3)
  
Complete one of the following:

- COMM 131X OR COMM 141X ...........................................(3)
  
**PERSPECTIVES ON THE HUMAN CONDITION (18)**

Complete all of the following four courses:

- ANTH 100X/SOC 100X ..............................................(3)
  
- ECON 100X OR PS 100X ..............................................(3)
  
- HIST 100X .................................................................(3)
  
- ENGL/FL 200X ...........................................................(3)
  
Complete one of the following three courses:

- ART/MUS/THR 200X, HUM 210X OR ANS 202X .........(3)
  
**Complete one of the following six courses:**

- BA 323X, COMM 300X, JUST 300X, NRM 303X,
  
- PS 300X OR PHIL 322X ..............................................(3)
  
**OR** complete 12 credits from the above courses PLUS

* two semester-length courses in a single Alaska Native language or other non-English language OR

* three semester-length courses (9 credits) in American Sign Language taken at the university level.

**MATHEMATICS (3)**

Complete one of the following:

- MATH 107X, MATH 161X OR MATH 103X ....................(3-4)

  * No credit may be earned for more than one of MATH 107X or 161X.

**OR** complete the following:

- MATH 200X, MATH 201X, MATH 202X,
  
- MATH 262X OR MATH 272X ............................................(4)
  
  * Or any math course having one of these as a prerequisite

**NATURAL SCIENCES (8)**

Complete any two (4-credit) courses:

- ATM 101X .................................................................(4)
  
- BIOL 100X ...............................................................(4)
  
- BIOL 103X ...............................................................(4)
  
- BIOL 104X ...............................................................(4)
  
- BIOL 105X ...............................................................(4)
  
- BIOL 106X ...............................................................(4)
  
- BIOL 111X ...............................................................(4)
  
- BIOL 112X ...............................................................(4)
  
- CHEM 100X .............................................................(4)
  
- CHEM 103X .............................................................(4)
  
- CHEM 104X .............................................................(4)
  
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- CHEM 106X .............................................................(4)
  
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- GEOS 112X ..............................................................(4)
  
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- MSL 111X .................................................................(4)
  
- PHYS 102X ...............................................................(4)
  
- PHYS 103X ...............................................................(4)
  
- PHYS 104X ...............................................................(4)
  
- PHYS 113X ...............................................................(4)
  
- PHYS 116X ...............................................................(4)
  
- PHYS 173X ...............................................................(4)
  
- PHYS 211X ...............................................................(4)
  
- PHYS 212X ...............................................................(4)
  
- PHYS 213X ...............................................................(4)

**LIBRARY AND INFORMATION RESEARCH (0–1)**

Successful completion of library skills competency test OR

LS 100X or 101X prior to junior standing ........................(0–1)

**UPPER-DIVISION WRITING AND ORAL COMMUNICATION (0)**

Complete the following:

* Two writing intensive courses designated (W) ................(0)

* One oral communication intensive course designated (O) ... (0)

**OR** two oral communication intensive courses designated (O/2), at the upper-division level (see degree and/or major requirements) .....(0)

**TOTAL CREDITS REQUIRED........................................ 38–39**
Physical Therapy
Pre-Professional Advising
(907) 474-6396

Physical therapists are dedicated to the promotion of health and the prevention of disease. Specifically, they provide assessment, evaluation and rehabilitation of the muscular, skeletal and nervous systems after injury or disease. Physical therapists work in hospital rehabilitation units, in private rehabilitation practices, and in orthopedic and sports medicine clinics. Many also serve as administrators, researchers and educators.

Physical therapy education typically consists of a two-year program leading to a certificate, a bachelor’s or a master’s degree. The current trend across the nation is toward the master’s, which requires completion of a bachelor’s degree before admission. As in most health care professions, the first half of physical therapy training consists of classroom instruction and the second half emphasizes clinical practice. After completion of programs accredited by the American Physical Therapy Program, students are eligible to test for licensure in all 50 states.

Acceptance to physical therapy programs is very competitive and is based on overall academic performance (most require a minimum 3.0 GPA), achievement in foundational sciences, and work experience in health care. Graduate programs usually require the Graduate Record Examination and/or the Miller Analogies Test. UAF does not prescribe a specific pre-physical therapy major, but offers a complete series of courses required for admission to most graduate programs. These include physics (PHYS 103X, 104X), anatomy and physiology (BIOL 111X and 112X), and statistics (STAT 300). Careful planning is necessary, as course requirements differ among schools.

Students considering a career in physical therapy should contact the Academic Advising Center. An advisor will help plan a program of study and explore professional schools and licensing requirements. See www.uaf.edu/advising/degree/preprof/physicaltherapy.html for more information.

<table>
<thead>
<tr>
<th>Baccalaureate Core Requirements</th>
<th>Natural Sciences (8)</th>
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</thead>
<tbody>
<tr>
<td>All degrees (e.g. B.A., B.S., etc.) require additional courses.</td>
<td>Complete any two (4-credit courses):</td>
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<tr>
<td>Refer to specific degree and program requirements.</td>
<td></td>
</tr>
<tr>
<td><strong>COMMUNICATION (9)</strong></td>
<td>ATM 101X .................................................. (4)</td>
</tr>
<tr>
<td><strong>Complete the following:</strong></td>
<td>BIOL 100X .................................................. (4)</td>
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<tr>
<td>ENGL 111X .......................................................... (3)</td>
<td></td>
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<tr>
<td><strong>ENGL 190H may be substituted.</strong></td>
<td>BIOL 103X .................................................. (4)</td>
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<tr>
<td><strong>Complete one of the following:</strong></td>
<td>BIOL 104X .................................................. (4)</td>
</tr>
<tr>
<td>ENGL 211X OR ENGL 213X ........................................ (3)</td>
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<tr>
<td><strong>Complete one of the following:</strong></td>
<td>BIOL 105X .................................................. (4)</td>
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<tr>
<td>COMM 131X OR COMM 141X ........................................ (3)</td>
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<tr>
<td><strong>PERSPECTIVES ON THE HUMAN CONDITION (18)</strong></td>
<td>BIOL 106X .................................................. (4)</td>
</tr>
<tr>
<td><strong>Complete all of the following four courses:</strong></td>
<td>BIOL 111X .................................................. (4)</td>
</tr>
<tr>
<td>ANTH 100X/SOC 100X ............................................. (3)</td>
<td></td>
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<td>ECON 100X OR PS 100X ............................................. (3)</td>
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<tr>
<td>HIST 100X .......................................................... (3)</td>
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<tr>
<td><strong>Complete one of the following three courses:</strong></td>
<td>CHEM 105X .................................................. (4)</td>
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<tr>
<td>ENGL/FIL 200X .......................................................... (3)</td>
<td></td>
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<tr>
<td><strong>Complete one of the following three courses:</strong></td>
<td>CHEM 106X .................................................. (4)</td>
</tr>
<tr>
<td>ART/MUS/THR 200X, HUM 201X OR ANS 202X ............... (3)</td>
<td></td>
</tr>
<tr>
<td><strong>Complete one of the following six courses:</strong></td>
<td>CHEM 100X .................................................. (4)</td>
</tr>
<tr>
<td>BA 323X, COMM 300X, JUST 300X, NRM 303X,</td>
<td>CHEM 101X .................................................. (4)</td>
</tr>
<tr>
<td>PS 300X OR PHIL 322X ............................................ (3)</td>
<td></td>
</tr>
<tr>
<td><strong>OR complete 12 credits from the above courses PLUS</strong></td>
<td>CHEM 102X .................................................. (4)</td>
</tr>
<tr>
<td>* two semester-length courses in a single Alaska Native language or other</td>
<td>CHEM 103X .................................................. (4)</td>
</tr>
<tr>
<td>* non-English language OR</td>
<td>CHEM 104X .................................................. (4)</td>
</tr>
<tr>
<td>* three semester-length courses (9 credits) in American Sign Language</td>
<td>CHEM 105X .................................................. (4)</td>
</tr>
<tr>
<td><strong>taken at the university level.</strong></td>
<td>CHEM 106X .................................................. (4)</td>
</tr>
<tr>
<td><strong>MATHEMATICS (3)</strong></td>
<td>GEOG 205X .................................................. (4)</td>
</tr>
<tr>
<td><strong>Complete one of the following:</strong></td>
<td>GEO 100X .................................................... (4)</td>
</tr>
<tr>
<td>MATH 107X, MATH 161X OR MATH 103X .......................... (3-4)</td>
<td></td>
</tr>
<tr>
<td>* No credit may be earned for more than one of MATH 107X or 161X.</td>
<td><strong>Complete the following:</strong></td>
</tr>
<tr>
<td><strong>OR complete one of the following:</strong></td>
<td>PHYS 102X .................................................. (4)</td>
</tr>
<tr>
<td>MATH 200X, MATH 201X, MATH 202X,</td>
<td>PHYS 103X .................................................. (4)</td>
</tr>
<tr>
<td>MATH 262X OR MATH 272X ........................................... (4)</td>
<td></td>
</tr>
<tr>
<td>*Or any math course having one of these as a prerequisite</td>
<td><strong>OR complete the following:</strong></td>
</tr>
<tr>
<td><strong>LIBRARY AND INFORMATION RESEARCH (0–1)</strong></td>
<td>Two writing intensive courses designated (W) .................. (0)</td>
</tr>
<tr>
<td>Successful completion of library skills competency test OR</td>
<td>One oral communication intensive course designated (O) ...... (0)</td>
</tr>
<tr>
<td>LS 100X or 101X prior to junior standing .................. (0–1)</td>
<td></td>
</tr>
<tr>
<td><strong>UPPER-DIVISION WRITING AND ORAL COMMUNICATION (0)</strong></td>
<td><strong>OR two oral communication intensive courses designated (O/2), at the</strong></td>
</tr>
<tr>
<td><strong>Complete the following:</strong></td>
<td><strong>upper-division level (see degree and/or major requirements) ......(0)</strong></td>
</tr>
<tr>
<td></td>
<td><strong>TOTAL CREDITS REQUIRED...........................................38-39</strong></td>
</tr>
</tbody>
</table>
Physician Assistant
Pre-Professional Advising
(907) 474-6396

Physician assistants are health care professionals licensed to practice medicine with physician supervision. As part of their comprehensive responsibilities, PAs conduct physical exams, diagnose and treat illnesses, order and interpret tests, counsel on preventive health care, assist in surgery, and in most states can write prescriptions.

Becoming a PA typically requires a master's degree, and a bachelor's degree is usually required to be admitted to a program. Some schools offer degree completion programs that allow students to finish a bachelor's degree while working toward the Master's of Physician Assisting. Becoming a certified PA will take at least 5-6 years from the start of college.

**Baccalaureate Core Requirements**

All degrees (e.g. B.A., B.S., etc.) require additional courses. Refer to specific degree and program requirements.

**COMMUNICATION (9)**
Complete the following:
ENGL 111X .............................................................................(3)  
ENGL 190H may be substituted.

Complete one of the following:
ENGL 211X OR ENGL 213X .............................................................................(3)

Complete one of the following:
COMM 131X OR COMM 141X .............................................................................(3)

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

Complete all of the following four courses:
ANTH 100X/SOC 100X .............................................................................(3)
ECON 100X OR PS 100X .............................................................................(3)
HIST 100X .....................................................................................(3)
ENGL/FL 200X .....................................................................................(3)

Complete one of the following three courses:
ART/MUS/THR 200X, HUM 201X OR ANS 202X .............................................................................(3)

Complete one of the following six courses:
BA 323X, COMM 300X, JUST 300X, NRM 303X, PS 300X OR PHIL 322X .............................................................................(3)

OR complete 12 credits from the above courses PLUS
- two semester-length courses in a single Alaska Native language or other non-English language OR
- three semester-length courses (9 credits) in American Sign Language taken at the university level.

**MATHMATICS (3)**

Complete one of the following:
MATH 107X, MATH 161X OR MATH 103X .............................................................................(3-4)  
* No credit may be earned for more than one of MATH 107X or 161X.

OR complete one of the following:
MATH 200X, MATH 201X, MATH 202X, MATH 262X OR MATH 272X .............................................................................(4)
* Or any math course having one of these as a prerequisite

**NATURAL SCIENCES (8)**
Complete any two (4-credit courses):
ATM 101X .....................................................................................(4)
BIOL 100X .....................................................................................(4)
BIOL 103X .....................................................................................(4)
BIOL 104X .....................................................................................(4)
BIOL 105X .....................................................................................(4)
BIOL 106X .....................................................................................(4)
BIOL 111X .....................................................................................(4)
BIOL 112X .....................................................................................(4)
CHEM 100X .....................................................................................(4)
CHEM 103X .....................................................................................(4)
CHEM 104X .....................................................................................(4)
CHEM 105X .....................................................................................(4)
CHEM 106X .....................................................................................(4)
GEOG 205X .....................................................................................(4)
GEOS 100X .....................................................................................(4)
GEOS 101X .....................................................................................(4)
GEOS 112X .....................................................................................(4)
GEOS 120X .....................................................................................(4)
GEOS 125X .....................................................................................(4)
MSL 111X .....................................................................................(4)
PHYS 102X .....................................................................................(4)
PHYS 103X .....................................................................................(4)
PHYS 104X .....................................................................................(4)
PHYS 113X .....................................................................................(4)
PHYS 116X .....................................................................................(4)
PHYS 175X .....................................................................................(4)
PHYS 211X .....................................................................................(4)
PHYS 212X .....................................................................................(4)
PHYS 213X .....................................................................................(4)

**LIBRARY AND INFORMATION RESEARCH (0–1)**
Successful completion of library skills competency test OR
LS 100X or 101X prior to junior standing .............................................................................(0–1)

**UPPER-DIVISION WRITING AND ORAL COMMUNICATION (0)**
Complete the following:
Two writing intensive courses designated (W) .............................................................................(0)
One oral communication intensive course designated (O) .............................................................................(0)
OR two oral communication intensive courses designated (O/2), at the upper-division level (see degree and/or major requirements) .............................................................................(0)

**TOTAL CREDITS REQUIRED** .............................................................................38–39
Veterinary Medicine
Pre-Professional Advising
(907) 474-6396

Veterinary medicine is concerned with two primary areas: the first is the diagnosis, prognosis, therapy and prevention of animal health problems; and the second is protection of the public from animal borne disease through food safety inspection and other methods. Veterinarians also work in the fields of research and education.

A professional program in veterinary medicine generally requires four years of graduate study. In the first three years, students gain a solid foundation through classroom instruction and laboratory work. The final year consists of clinical rotations. Specialization within veterinary medicine requires further study at the post-doctoral level.

Although a bachelor's degree is not required for admission into veterinary school, most entering students have completed a four-year undergraduate degree. Veterinary schools will consider applicants from all disciplines, but because specific course requirements vary among schools, students must be sure check the admission standards of the school they are interested in. In general, pre-veterinary students should include the following undergraduate courses: introductory chemistry (CHEM 105X, 106X), organic chemistry (CHEM 321, 322, 324), biochemistry (CHEM 451, 452), biology (BIOL 105X, 106X, 342, 362, 418), mathematics (STAT 200), and physics (PHYS 103X, 104X).

Admission to veterinary school is based on the strength of the applicant's undergraduate academic record and test scores on either the Veterinary College Admissions Test (VCAT) or the Graduate Record Exam (GRE). Work experience in veterinary medicine is highly recommended.

Advising for students considering veterinary medicine as a career choice is available through the Academic Advising Center. See www.uaf.edu/advising/degree/preprof/vetmedicine.html for more information.