AEROSPACE STUDIES MINOR

Description

Air Force ROTC

The preparation of future Air Force officers is provided through the Air Force ROTC (AFROTC) program. Enrollment is open to any student attending the University on a full-time basis. The curriculum provides the individual with a firm understanding of the concepts of aerospace power and the Air Force mission, organization and operations.

Enrollment in AFROTC is voluntary and accomplished through the fall and spring registration periods. Scholarships are available on a competitive basis. Approximately fifty percent of the students hold scholarships.

General Program

The Air Force ROTC program consists of the General Military Course (GMC) during the freshman and sophomore years and the Professional Officer Course (POC) for the remaining years. All GMC cadets must complete a four-week field training session during the summer between their sophomore and junior years to enter the POC. Field training is a competitively selected process, and all students wishing to pursue a commission through AFROTC must attend field training.

College Requirements

College Admission

College Admission

The entrance requirements for the College of Arts and Sciences are the same as the UNL General Admission Requirements. Students who are admitted through the Admission by Review process may have certain conditions attached to their enrollment at UNL. These conditions are explained under “Removal of Deficiencies.”

In addition to these requirements, the College of Arts and Sciences strongly recommends a third and fourth year of one foreign language. Four years of high school coursework in the same language will fulfill the College of Arts and Sciences’ language requirement. It will also allow students to continue language study at a more advanced level at UNL, and provide more opportunity to study abroad.

Transfer Students

To be considered for admission as a transfer student, Nebraska resident or nonresident, students must have an accumulated average of C (2.0 on a 4.0 scale) and a minimum C average in the last semester of attendance at another college. Transfer students who graduated from high school January 1997 and after must also meet the UNL General Admission Requirements. Those transfer students who graduated before January 1997 must have completed in high school, 3 years of English, 2 years of the same foreign language, 2 years of algebra, and 1 year of geometry. Transfer students who have completed less than 12 credit hours of college study must also submit either their ACT or SAT scores.

Ordinarily, hours earned at a similarly accredited college or university are applicable to the UNL degree. The College, however, will evaluate all hours submitted on an application for transfer, and reserves the right to accept or reject any of them, based upon its exclusion and restriction policies. Sixty is the maximum number of hours the University will accept on transfer from a two-year college or international institution. Transfer credit in the major or minor must be approved by the departmental advisor on a Request for Substitution Form to meet specific course requirements, group requirements, or course level requirements in the major or minor. At least half of the hours in the major field must be completed at the University regardless of the number of hours transferred.

The College of Arts and Sciences will accept no more than 15 semester hours of C- and D grades from other schools. The C- and D grades cannot be applied toward requirements for a major or minor. This policy does not apply to the transfer of grades from UNO or UNK to UNL. All D grades may be transferred from UNO or UNK, but they are not applicable to a major or minor.

Readmitted Students

UNL students who choose not to take courses for more than 2 consecutive terms, must reapply to UNL. Students re-admitted to the College of Arts and Sciences will follow the requirements stated in the catalog for the academic year of readmission and re-enrollment as a degree-seeking student in Arts and Sciences. In consultation with advisors, a student may choose to follow a catalog for any academic year in which they are admitted to and enrolled as a degree-seeking student at UNL in the College of Arts and Sciences. Students must complete all degree requirements from a single catalog year. Beginning in 1990-1991, the catalog which a student follows for degree requirements may not be more than 10 years old at the time of graduation.

Admission Deficiencies/Removal of Deficiencies

Students must remove entrance deficiencies in geometry and foreign language as soon as possible, and before graduating from the College of Arts and Sciences. For questions and more information, students should consult a college advisor in the Academic and Career Advising Center in 107 Oldfather Hall.

Removing Foreign Language Deficiencies

Students must complete the second semester of a first year language sequence to clear the deficiency and the second semester of the second year language sequence to complete the college graduation requirement in language.

Removing Geometry Deficiencies

A deficiency of one year of geometry can be removed by taking high school geometry courses through an approved independent study program, or by completing a geometry course from an accredited community college or a four-year institution. Neither of these options will count for college credit.

College Degree Requirements

College Distribution Requirements

Bachelor of Arts or Bachelor of Science (16 hours + Language)

The College of Arts and Sciences distribution requirements are designed to further the purposes of liberal education by encouraging study in several different areas within the College. All requirements are in addition to University ACE requirements. A student may not use a single course to satisfy more than one of the following five distribution requirements. A student cannot use a single course to satisfy both an ACE outcome and a College distribution requirement. A student cannot use a course from their primary major to satisfy the Breadth Requirement (F), but may apply an ancillary requirement of the primary major or a course from their second major toward this requirement. Independent study or reading courses and internships cannot be used to satisfy distribution requirements. To see a complete list of excluded courses, run a degree audit through MyRED.

Courses from interdisciplinary programs will count in the same area as courses from the home/cross-listed department(s).
College Distribution Requirements

**CDR A - Written Communication**
Select from courses approved for ACE outcome 1.

**CDR B and BL - Natural, Physical, and Mathematical Sciences with Lab**
Select from biochemistry, biological sciences, chemistry, computer science, geology, meteorology, mathematics, physics and statistics. Must include one lab in the natural or physical sciences. Lab courses may be selected from biochemistry, biological sciences, chemistry, geology, meteorology and physics.

Some courses from geography and anthropology may also be used to satisfy the lab requirement above. ¹

**CDR C - Humanities**
Select from classics, English, history, modern languages and literatures, philosophy, and religious studies. ²

**CDR D - Social Science**
Select from: anthropology, communication studies, geography, political science, psychology, or sociology. ³

**CDR E - Language**
Fulfilled by the completion of the 6-credit-hour second-year sequence in a single foreign language in one of the following departments: Classics and religious studies, modern languages and literatures, or anthropology. Instruction is currently available in Arabic, Chinese, Czech, French, German, Greek, Japanese, Latin, Omaha, Russian, and Spanish. A student who has completed the fourth-year level of one foreign language in high school is exempt from the languages requirement.

**CDR F - Additional Breadth**
Select from: natural, physical and mathematical sciences (Area B), humanities (Area C), or social sciences (Area D). Cannot be a course from the primary major.

Credit Hours Subtotal: 16-32

¹ See degree audit or a College of Arts and Sciences advisor for approved geography and anthropology courses that apply as natural science.
² Language courses numbered 210 or below apply only for the foreign language requirement.
³ See degree audit or College of Arts and Sciences advisor for list of natural/physical science courses in anthropology, geography, and psychology that do not apply as social science.

**Science Base**

Bachelor of Science Only (60 hours)
The bachelor of science degree requires students to complete 60 hours in mathematical, physical and natural sciences. Approved courses for science base credit come from the following College of Arts and Sciences disciplines: actuarial science, anthropology (selected courses), astronomy, biochemistry (excluding BIOL 101), biological sciences (excluding BIOS 203), chemistry (excluding CHEM 101), computer science (excluding CSCE 10), geography (selected courses), geology, life sciences, mathematics (excluding courses below MATH 104), meteorology, microbiology, physics and statistics.

See your degree audit or a College of Arts and Sciences advisor for a complete list including individual classes that fall outside of the disciplines listed above. Up to 12 hours of scientific and technical courses offered by other colleges may be accepted toward this requirement with approval of a college advisor.

**Foreign Languages/Language Requirement**

**Languages Exemption Policy**
UNL and the College of Arts and Sciences will exempt or waive students from the UNL entrance requirement of two years of the same foreign language or from the College’s language distribution requirement based on documentation only. The following are the options and procedures for documentation:

**High School Transcripts**
For the University entrance requirement, students must show an official high school transcript with two or more years of the same foreign language.

For the College of Arts and Sciences College Distribution Requirement E-Language, students must show an official high school transcript with four or more years of the same foreign language in high school, or show evidence of graduation from a non-English-speaking foreign high school. Students whose native language is not English must show English as a Second Language study on an official high school transcript. Four years of ESL at the high school level (9th, 10th, 11th and 12th grades) will be the basis for a waiver of the CDR E Language requirement.

**Proficiency Examination at UNL**
For the University entrance requirement, students who do not have transcript documentation can request to take a proficiency exam in the language. *(This is not the same test as the Modern Languages Placement Exam.)* However, UNL will provide testing only in the languages it teaches. Currently, these languages are: Arabic, French, German, Spanish, Russian, Czech, Japanese, Chinese.

For the College of Arts and Sciences College Distribution Requirement E-Language, the Department of Modern Languages will oversee the test at the 202 level. If the student passes the test, the department will sign the College Request for Waiver form and indicate the level of proficiency. The form is then forwarded to the Arts and Sciences Advising Center for approval.

The Department of Modern Languages will oversee the test and provide written documentation to the Arts and Sciences Advising Center the level of proficiency passed.

**Distance Education**
For the University entrance requirement, students without transcript documentation who claim proficiency in a language not taught at UNL, have the option of seeking out a distance education program in languages. If the student completes the equivalent of 102 from an approved distance education program, the student will meet the UNL entrance requirement. The student must have the course work approved before he/she takes/completes the course as equivalent to 102 by a College advisor. The student then completes the course and has the distance education program send the transcript to the Admissions Office.

For the College of Arts and Sciences College Distribution Requirement E-Language, the student can seek out a distance education program and complete the equivalent of the 202-level course. The student must submit the request on the College Request for Substitution form and have the course work approved by a College advisor. The student then completes the course and has the distance education program send the transcript to the Admissions Office.
Third Language Option
If a student demonstrates knowledge of two foreign languages at
the 102 level, the College of Arts and Sciences may consider waiving
two semesters of the four semester College Distribution Requirement
E-Languages requirement. If this waiver were granted, the student
would then be required to complete 101 and 102 in another, 3rd foreign
language at UNL.

Minimum Hours Required for Graduation
A minimum of 120 semester hours of credit is required for graduation
from the College of Arts and Sciences. A total grade point average of at
least 2.0 is required.

Grade Rules
Restrictions on C- and D Grades
The College will accept no more than 15 semester hours of C- and D
grades from other schools except for UNO and UNK. No transfer C- and
D grades can be applied toward requirements in a major or a minor. No
UNL C- and D grades can be applied toward requirements in a major or a
minor.

Pass/No Pass Privilege
University regulations for the Pass/No Pass (P/N) privilege state:

- The Pass/No Pass option is designed for your use by seeking to
  expand your intellectual horizons by taking courses in areas where
  you may have had minimal preparation.
- Neither the P nor the N grade contribute to your GPA.
- P is interpreted to mean C or above.
- A change to or from a Pass/No Pass may be made until mid-term (see
  academic calendar for specific dates per term).
- The Pass/No Pass or grade registration cannot conflict with the
  policy of the professor, department, college, or University governing
  the grading option.
- Changing to or from Pass/No Pass requires using the MyRED system
to change the grading option or filing a Drop/Add form with the Office
of the University Registrar, 107 Canfield Administration Building. After
mid-term of the course, a student registered for Pass/No Pass cannot
change to a grade registration unless the Pass/No Pass registration
is in conflict with the policy of the professor, department, college, or
University governing Pass/No Pass.
- The Pass/No Pass grading option cannot be used for the removal of
  C- or D or F grades.

Pass/No Pass privileges in the College of Arts and Sciences are extended
to students according to the following additional regulations:

- Pass/No Pass hours can count toward fulfillment of University ACE
  requirements and college distribution requirements up to the 24-hour
  maximum.
- Most Arts and Sciences departments and programs do not allow
courses graded Pass/No Pass to apply to the major or minor.
  Students should refer to the department’s or program’s section of the
catalog for clarification. By college rule, departments can allow up to
6 hours of Pass/No Pass in the major or minor.
- Departments may specify that certain courses of theirs can be taken
  only on a P/N basis.
- The college will permit no more than a total of 24 semester hours
  of P/N grades to be applied toward degree requirements. This total
  includes all Pass grades earned at UNL and other U.S. schools. NOTE:
  This 24-hour limit is more restrictive than the University regulation.

Grading Appeals
A student who feels that he/she has been unfairly graded must ordinarily
take the following sequential steps in a timely manner, usually by
initiating the appeal in the semester following the awarding of the grade:

1. Talk with the instructor concerned. Most problems are resolved at
   this point.
2. Talk to the instructor’s department chairperson.
3. Take the case to the Grading Appeal Committee of the department
   concerned. The Committee should be contacted through the
   department chairperson.
4. Take the case to the College Grading Appeals Committee by
   contacting the Dean’s Office, 1223 Oldfather Hall.

Course Level Requirements

Courses Numbered above 299
Thirty of the 120 semester hours of credit must be in courses numbered
above 299. Of the 30 hours above 299, 15 hours (1/2) must be completed
in residence at UNL.

Graduate Courses
Seniors in the University who have obtained in advance the approval
of the dean for Graduate Studies may receive up to 12 hours credit for
graduate courses taken in addition to the courses necessary to complete
their undergraduate work, provided that such credits are earned within
the calendar year prior to receipt of the baccalaureate. For procedures,
inquire at the Office of Graduate Studies.

Course work taken prior to receipt of the baccalaureate may not always
be accepted for transfer to other institutions as graduate work.

Residency

Residency Requirement and Open Enrollment and Summer
Independent Study Courses
Students must complete at least 30 of the 120 total hours for their
degree at UNL. Students must complete at least 1/2 of their major
course work including 6 hours above 299 in their major, and 15 of the 30
hours required above 299 in residence. Credit earned during education
abroad may be used toward the residency requirement if students
register through UNL and participate in prior-approved education abroad
programs. UNL open enrollment and summer independent study courses
count toward residence.

ACE Requirements
Consistent with the mission and values of the University, ACE is based
on a shared set of four institutional objectives and ten student learning
outcomes. The ACE program was approved by faculty in all eight
undergraduate colleges and endorsed by the Faculty Senate, the student
government, and the Academic Planning Committee in January 2008
for implementation in the fall 2009. ACE aligns with current national
initiatives in general education.

Key characteristics of ACE demonstrate the benefits of the program to
students:

- Students receive a broad education with exposure to multiple
disciplines, critical life skills and important reasoning, inquiry, and
  civic capacities.
ACE is simple and transparent for students, faculty and advisors. Students complete the equivalent of 3 credit hours for each of the ten student learning outcomes.

- Students connect and integrate their ACE experiences with their selected major.
- Students can transfer all ACE certified courses across colleges within the institution to meet the ACE requirement and any course from outside the institution that is directly equivalent to a UNL ACE-certified course. Courses from outside institutions without direct equivalents may be considered with appropriate documentation for ACE credit (see academic advisor).

ACE allows faculty to assess and improve their effectiveness and facilitate students’ learning.

ACE Institutional Objectives and Student Learning Outcomes

To meet the ACE Program requirement, a student will complete a minimum of 3 credit hours for each of the ten ACE Student Learning Outcomes (a total of 30 ACE credit hours). See the ACE website at: http://ace.unl.edu for the most current information and the most recently certified courses.

Catalog Rule

Students must fulfill the requirements stated in the catalog for the academic year in which they are first admitted to and enrolled as a degree-seeking student at UNL. In consultation with advisors, a student may choose to follow a subsequent catalog for any academic year in which they are admitted to and enrolled as a degree-seeking student at UNL in the College of Arts and Sciences. Students must complete all degree requirements from a single catalog year. Beginning in 1990-1991 the catalog which a student follows for degree requirements may not be more than 10 years old at the time of graduation.

Requirements for Minor Offered by Department

The minor not only prepares cadets for active duty service but provides any student the opportunity to study one of our country's major instruments of power, the United States Military. In addition to studying Air Force organizations, missions and operations, the student will gain a broad perspective of the military in general by studying the history of all Department of Defense Services, thus emphasizing our country's focus on Joint Military Operations.

Course Requirements (18 cr)

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<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tr>
<td>AERO 331</td>
<td>Air Force Leadership Studies I</td>
<td>3</td>
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<tr>
<td>AERO 332</td>
<td>Air Force Leadership Studies II</td>
<td>3</td>
</tr>
<tr>
<td>AERO 441</td>
<td>National Security Affairs and Preparation for Active Duty I</td>
<td>3</td>
</tr>
<tr>
<td>AERO 442</td>
<td>National Security Affairs and Preparation for Active Duty II</td>
<td>3</td>
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<tr>
<td>MNGT 360</td>
<td>Managing Behavior in Organizations</td>
<td></td>
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<td>MNGT 361</td>
<td>Human Resource Management</td>
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<tr>
<td>MNGT 411</td>
<td>Leading People and Projects</td>
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<td>MNGT 414</td>
<td>Leadership in a Global Context</td>
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<tr>
<td>MNGT 464</td>
<td>Talent Acquisition and Staffing</td>
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<td>MNGT 466</td>
<td>The Regulatory Environment for Employment and Labor</td>
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<tr>
<td>HIST 303</td>
<td>United States Military History, 1607-1917</td>
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<td>HIST 304</td>
<td>United States Military History Since 1917</td>
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<td>GEOG 272</td>
<td>Geography of World Regions</td>
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<td>POLS 160</td>
<td>International Relations</td>
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<td>POLS 260</td>
<td>Problems in International Relations</td>
</tr>
<tr>
<td>POLS 363</td>
<td>United States Foreign Policy</td>
</tr>
</tbody>
</table>

Active Duty Obligation

There is no active duty obligation for enrolling in any AFROTC courses, unless a student wishes to become an Active Duty Air Force Officer or accepts an Air Force scholarship. Students who complete the Air Force ROTC program and receive a commission, incur a four-year active duty commitment. Flying officers serve additional commitments from the time they complete their training.

Grade Rules

C- and D Grades

A grade of C or above is required for all courses in the minor.

Pass/No Pass

No course taken Pass/No Pass will be counted toward the minor.

AERO 185 Foundation of the United States Air Force I

Prerequisites: Must enroll in both AERO 185 (lecture) and AERO 185L (lab)

Description: Officership, communication skills, opportunities, and benefits in today’s US Air Force. A weekly one and one-half hour Leadership Lab consists of Air Force customs and courtesies, Air Force environment, drill and ceremonies.

Credit Hours: 1

Max credits per semester: 1

Max credits per degree: 1

Format: LEC

Groups: General Military Course

AERO 185L Leadership Laboratory

Prerequisites: Must enroll in both AERO 185 (lecture) and AERO 185L (lab)

Notes: Successful completion of this course is required for commissioning.

Description: Increasing students’ knowledge of Air Force uniform wear, customs, and active duty opportunities.

Credit Hours: 0

Max credits per semester:

Max credits per degree:

Format: LAB

Groups: General Military Course
AERO 186 Foundation of the United States Air Force II
Prerequisites: Must enroll in both AERO 186 (lecture) and AERO 186L (lab)
Description: Communication and leadership skills, US Military history, and the organizational structure of today’s US Air Force. A weekly one and one-half hour Leadership Lab consists of Air Force customs and courtesies, Air Force environment, drill and ceremonies.
Credit Hours: 1
Max credits per semester: 1
Max credits per degree: 1
Format: LEC
Prerequisite for: AERO 295
Groups: General Military Course

AERO 186L Leadership Laboratory
Prerequisites: Must also enroll in both AERO 186 (lecture) and AERO 186L (lab)
Description: Increasing students’ knowledge of Air Force uniform wear, customs, and active duty opportunities.
Credit Hours: 0
Max credits per semester: 0
Max credits per degree: 0
Format: LAB
Groups: General Military Course

AERO 295 The Evolution of US Air and Space Power I
Prerequisites: AERO 186 or permission
Description: History of the development and deployment of airpower from the Wright Brothers’ first flight to the Persian Gulf War and how the events were affected by technology, politics, doctrine, and geography. Emphasizes US airpower.
Credit Hours: 2
Max credits per semester: 2
Max credits per degree: 2
Format: LEC
Prerequisite for: AERO 296
Groups: General Military Course

AERO 295L Leadership Laboratory
Prerequisites: Must enroll in both AERO 295 (lecture) and AERO 295L (lab)
Description: Introduction to cadet leadership training. Practical experience in leadership roles.
Credit Hours: 0
Max credits per semester: 0
Max credits per degree: 0
Format: LAB
Groups: General Military Course

AERO 296 The Evolution of US Air and Space Power II
Prerequisites: AERO 295 or permission
Description: History of the development and deployment of airpower from the Wright Brothers’ first flight to the Persian Gulf War and how the events were affected by technology, politics, doctrine, and geography. Emphasizes US airpower.
Credit Hours: 2
Max credits per semester: 2
Max credits per degree: 2
Format: LEC
Groups: General Military Course

AERO 296L Leadership Laboratory
Prerequisites: Must enroll in both AERO 296 (lecture) and AERO 296L (lab)
Description: Introduction to cadet leadership training. Practical experience in leadership roles.
Credit Hours: 0
Max credits per semester: 0
Max credits per degree: 0
Format: LAB
Groups: General Military Course

AERO 331 Air Force Leadership Studies I
Prerequisites: Permission of professor of aerospace studies.
Description: Communications skills, leadership, quality initiatives, and human relations. Requires cadet research and participation in the instructional process.
Credit Hours: 3
Max credits per semester: 3
Max credits per degree: 3
Format: LEC
Groups: Professional Officer Course

AERO 331L Leadership Laboratory
Prerequisites: Must enroll in both AERO 331 (lecture) and AERO 331L (lab)
Description: Practical application of the principles of leadership in the operation and administration of the cadet wing.
Credit Hours: 0
Max credits per semester: 0
Max credits per degree: 0
Format: LAB
Groups: Professional Officer Course

AERO 332 Air Force Leadership Studies II
Prerequisites: AERO 331, or permission of professor of aerospace studies.
Description: Principles of leadership, professionalism, ethics, communications skills, and problem solving, including quality leadership applications.
Credit Hours: 3
Max credits per semester: 3
Max credits per degree: 3
Format: LEC
Groups: Professional Officer Course

AERO 332L Leadership Laboratory
Prerequisites: Must enroll in both AERO 332 (lecture) and AERO 332L (lab)
Description: Practical application of the principles of leadership in the operation and administration of the cadet wing.
Credit Hours: 0
Max credits per semester: 0
Max credits per degree: 0
Format: LAB
Groups: Professional Officer Course
AERO 441 National Security Affairs and Preparation for Active Duty I
Prerequisites: AERO 331, 332, or permission of professor of aerospace studies.
Description: Environment in which defense policy is formulated. Requisites for maintaining adequate national security forces; political, economic, and social constraints of the national defense structure; and the overall defense policymaking process.
Credit Hours: 3
Max credits per semester: 3
Max credits per degree: 3
Format: LEC
Groups: Professional Officer Course

AERO 441L Leadership Laboratory
Description: Practical application of the principles of leadership and experience in the operation and administration of the cadet wing.
Credit Hours: 0
Max credits per semester: 
Max credits per degree: 
Format: LAB
Groups: Professional Officer Course

AERO 442 National Security Affairs and Preparation for Active Duty II
Prerequisites: AERO 331, 332, and 441 or permission of professor of aerospace studies.
Description: The armed forces as an integral element of society; the broad range of civil-military relations. The role of the professional officer in a democratic society, the socialization process within the armed services, and the military justice system.
Credit Hours: 3
Max credits per semester: 3
Max credits per degree: 3
Format: LEC
Groups: Professional Officer Course

AERO 442L Leadership Laboratory
Prerequisites: Must enroll in both AERO 442 (lecture) and AERO 442L (lab)
Description: Practical application of the principles of leadership and experience in the operation and administration of the cadet wing.
Credit Hours: 0
Max credits per semester: 
Max credits per degree: 
Format: LAB
Groups: Professional Officer Course