



College of Arts and Sciences

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Introduction

The College of Arts and Sciences embraces instruction, research and service across a broad spectrum of science, the arts, humanities and social

sciences. As a direct result of these activities, the college delivers lively, stimulating programs of study in a thought-provoking, intellectual climate. The college emphasizes the creation of specialized learning links with other areas of knowledge provided by other colleges, with the ultimate goal being to foster an understanding of the complex, multi-faceted world around and beyond us.

The dedicated faculty and staff of the college strive continuously to provide students with a strong, comprehensive general education that will prepare them for successful careers in a rapidly changing and sometimes unpredictable world. Consequently, its core curriculum and degree programs help students develop both the critical thinking ability and the dedicated knowledge base essential for achieving a high quality of life and for being better, more informed citizens.

Consistent with the goals of providing a comprehensive, relevant education, the College of Arts and Sciences prepares students to acquire certain key, basic proficiencies:

1. literacy in written English, mathematics and communication;
2. qualitative and quantitative understanding of the basic processes of the physical and life sciences;
3. working knowledge of a foreign language and foreign culture beyond the three years expected before entering college;

4. understanding and appreciation of the various fields of learning represented by historical inquiry, the visual and performing arts, the processes of thought in the humanities and philosophy, and the investigation of the causes and consequences of human actions pursued in the social sciences; and
5. appropriate levels of knowledge and critical ability in a chosen discipline and its method of inquiry.

Students who follow degree plans consistent with the educational intentions of the college will receive the intellectual stimulation and the conceptual framework to explore critically the interconnected worlds of self, man, society and nature. They will acquire the necessary literacies and broad-based exposure to the main elements of human experience that initiate the lifelong process of being an educated person and, that in most instances, also provide the means to enter graduate schools or a variety of careers.

The college consists of the following departments and areas of study:

- Aerospace Studies
- Biological Sciences
- Chemistry
- Communication Studies
- Dance and Theatre
- Economics
- English
- Foreign Languages and Literatures
- Geography
- History
- Journalism
- Mathematics
- Philosophy and Religion Studies
- Physics
- Political Science
- Psychology
- Radio, Television and Film
- Speech and Hearing Sciences
- Women's Studies

Academic Advising

Academic advisers and counselors are available in the College of Arts and Sciences Dean's Office for Undergraduates and Student Advising in the General Academic Building, Room 220, to assist students in the development and pursuit of meaningful educational goals.

Majors

The College of Arts and Sciences Dean's Office for Undergraduates and Student Advising has trained academic advisers who are assigned to specific majors. The academic advisers prepare students'

degree audits, assist majors with core curriculum issues and requirements for their chosen major, and process graduation applications. Faculty advisers in the department assist the students in their major.

Pre-Majors

Students in the following departments begin as pre-majors and complete a specific set of requirements prior to becoming majors. Students will need to contact the faculty adviser in the department to discuss how to meet requirements to be an official major.

- Biochemistry
- Biology
- Communication studies
- English
- Journalism
- Radio, television and film

Undecided Students

The College of Arts and Sciences is also the academic home for all students who are unsure of their major. The selection of undecided/exploring as an initial major is a recommended option for students who are exploring possible majors. It is recommended that students remain undecided/exploring until they are fairly certain about their major. Trained academic counselors in the College of Arts and Sciences are available to assist undecided/exploring students with clarifying academic interests, determining career goals, and selecting majors. The counselors also refer students to additional campus resources designed to support them in realizing their major and career goals.

Non-Degree Students

Some students attend UNT to complete specific requirements prior to enrolling at a professional school. Many of these students are in the health-related professions, as well as other areas. The health professions coordinator is located in the College of Arts and Sciences Dean's Office for Undergraduates and Student Advising and assists students in these allied health areas.

Non-degree students are students taking classes at UNT prior to enrollment in a professional school, including the following:

- Chiropractic
- Dental hygiene
- Dietetics
- Nursing
- Occupational therapy
- Pharmacy
- Pre-chemistry engineering
- Respiratory therapy

Some students elect to choose a major while completing the prerequisites for their chosen

field and earn a bachelor's degree from UNT. Other students apply and are accepted to their chosen professional school as soon as they have completed the prerequisite courses required by their professional school of choice.

Degree Requirements

The basic structure of all bachelor's degrees consists of a large set of general education requirements common to all degrees (University Core Curriculum— 47 hours at UNT), a small set of requirements unique to the school or college offering the degree (college requirements), a set of requirements defining a major field of study as determined by a department (major/professional/concentration – a minimum of 24 hours), and electives chosen freely or in consultation with an adviser to reach the minimum number of hours required for the degree. A lesser field of study, a minor (minimum of 18 hours), is optional unless specified in the degree requirements. All degrees require that 31 hours be earned at UNT and that at least 42 hours are at the advanced level (3000- and 4000-level courses).

Degree Audit

A degree audit is an official document of the university that lists all the courses needed to complete a chosen degree and shows how all of the courses completed are applied toward the degree. Students should file for a degree audit when certain of their major by making an appointment with the faculty adviser in the major department. Transfer students will need to bring:

- copies of transfer transcripts;
- catalog descriptions of transfer courses; and
- the initial Core Curriculum Transfer Evaluation/ Audit Form.

After the degree audit advising sessions with the adviser, the department advisory form is sent to the Dean's Office for Undergraduates and Student Advising (GAB, Room 220) for preparation of the degree audit. Within a few weeks, a degree audit will be mailed to the address provided. Students may obtain an updated copy each term/semester from GAB, Room 220. Academic advisers in GAB, Room 220, are available by appointment to assist students with questions that may arise as they chart their progress.

Programs of Study

The college offers the following undergraduate degrees:

- Bachelor of Arts;
- Bachelor of Fine Arts;
- Bachelor of Science;

- Bachelor of Science in Biochemistry, Biology, Chemistry, Economics, Engineering Physics, Mathematics, Medical Technology and Physics;
- Professional, preprofessional and specialized programs;
- Minors in a variety of disciplines – see individual departments; and
- Academic certificates.

Candidates for the Bachelor of Arts and Bachelor of Science degrees must satisfy all general requirements for the bachelor's degree listed in the Academics section of this catalog, and all requirements of the arts and sciences degree requirements listed below. Candidates for the Bachelor of Fine Arts degree must satisfy all requirements for the bachelor's degree listed in the Academics section of this catalog.

Degree Requirements and the University Core Curriculum

Occasionally a course required for a degree may also satisfy a requirement of the University Core Curriculum. In addition to taking the required course, a student may elect to take a different course from among those available to fulfill that core requirement; doing so, however, may add to the total number of hours required for the degree. Students who have questions regarding degree requirements and core requirements should consult an academic adviser.

Bachelor of Arts Degree Requirements

Candidates for the Bachelor of Arts must meet the following requirements.

1. **Hours Required for the Degree:** Completion of a minimum of 128 total semester hours; 42 must be advanced.
2. **General University Requirements:** See "General Degree Requirements" in the Academics section of this catalog.
3. **College of Arts and Sciences Degree Requirements:** See "Arts and Sciences Degree Requirements" in this section of the catalog for specific requirements and list of approved courses. See specific degree audit for exact hours.
4. **Major Requirements:** A major of at least 24 semester hours; 12 hours of advanced work in the major must be completed at UNT.
5. **Minor:** None required.
6. **Electives:** See individual major.
7. **Other Course Requirements:** See individual major.
8. **Other Requirements:** Completion of all other requirements for a major and a minor as specified by the respective departments.

Bachelor of Fine Arts Degree Requirements

Candidates for the Bachelor of Fine Arts degree must meet the following requirements.

1. **Hours Required for the Degree:** Completion of a minimum of 128–138 total semester hours; 42 must be advanced.
2. **General University Requirements:** See “General Degree Requirements” in the Academics section of this catalog.
3. **Major Requirements:** Major in dance is available. See the Department of Dance and Theatre for specific requirements.
4. **Minor:** None required.
5. **Electives:** See individual major.
6. **Other Course Requirements:** See individual major.
7. **Other Requirements:** Completion of all other requirements for a major or minor as specified by the respective departments.

Bachelor of Science Degree Requirements

Candidates for the Bachelor of Science must meet the following requirements.

1. **Hours Required for the Degree:** Completion of a minimum of 128 total semester hours; 42 must be advanced.
2. **General University Requirements:** See “General Degree Requirements” in the Academics section of this catalog.
3. **College of Arts and Sciences Degree Requirements:** See “Arts and Sciences Degree Requirements” in this section of this catalog for specific requirements and list of approved courses. See specific degree audit for exact hours.
4. **Major Requirements:** A major of at least 24 semester hours; 12 hours of advanced work in the major must be completed at UNT.
5. **Minor:** None required.
6. **Electives:** See individual major.
7. **Other Course Requirements:** See individual major.
8. **Other Requirements:** Completion of all other requirements for a major and a minor as specified by the respective departments.

Core Curriculum

Candidates for the Bachelor of Arts and Bachelor of Science degrees in the College of Arts and Sciences must complete the University Core and the Arts and Sciences degree requirements shown below. Candidates for the Bachelor of Science degree may

have other options for the foreign language requirement. Candidates for the Bachelor of Fine Arts degree must satisfy the requirements of the University Core Curriculum. Students should see the departmental adviser for their major for more information.

University Core Curriculum

1. **English Composition and Rhetoric (6 hours):** See approved list in the Academics section of this catalog.
2. **Mathematics (3 hours):** See “University Core Curriculum Requirements” in the Academics section of this catalog.
3. **Natural Sciences (8 hours):** See “University Core Curriculum Requirements” in the Academics section of this catalog.
4. **Visual and Performing Arts (3 hours):** See approved list in the Academics section of this catalog.
5. **Humanities (3 hours):** See approved list in the Academics section of this catalog.
6. **United States History (6 hours):** See approved list in the Academics section of this catalog.
7. **American Government (6 hours):** See approved list in the Academics section of this catalog.
8. **Social and Behavioral Sciences (3 hours):** See approved list in the Academics section of this catalog.
9. **Wellness (3 hours):** See approved list in the Academics section of this catalog.
10. **Cross-Cultural, Diversity and Global Studies (3 hours):** See approved list in the Academics section of this catalog.
11. **Communication (3 hours):** See approved list in the Academics section of this catalog.

Arts and Sciences Degree Requirements

The following requirements are in addition to or a specification of the University Core Curriculum requirements for Bachelor of Arts degrees and some Bachelor of Science degrees.

1. **Mathematics (3 hours, higher than College Algebra, also satisfies the university core):** MATH 1190, 1400, 1650, 1680 or 1710. Prerequisite of MATH 1100 or equivalent with a grade of C or better, or proficiency in MATH 1100 as demonstrated by an appropriate score on the mathematics department placement exam.
2. **Laboratory Science (4 hours, in addition to the university core):** One course from the natural and life sciences or the physical sciences (some majors require specific and/or additional laboratory science courses; see your departmental adviser for more information). **Note:** The College of Arts and Sciences requires students to complete a total of 12 hours of laboratory

science (including the 8 hours in the university core) with at least one course in the natural and life sciences and at least one course in the physical sciences, as listed below:

Natural and Life Sciences: ARCH 2800; BIOL 2700/ ANTH 2700; BIOL 1110/1115, 1120/1125, 1130/1135, 1710/1730, 1711*/1730, 1720/1740, 1722*/1740, 2381/2382, 2401, 2402; GEOL 1610; GEOG 1710.

Physical Sciences: CHEM 1351/1352, 1410/1430, 1420/1440, 1413*/1430, 1423*/1440; PHYS 1050/1051, 1060/1061, 1251/1271, 1311*/1331*, 1312/1332, 1410/1430, 1420/1440, 1510/1530, 1520/1540, 1710/1730, 2220/2240.

**For honors students only*

3. Oral/Advanced Written Communication (3 hours, also satisfies the university core Communication requirement): COMM 1010, 1440*, 2020, 2040, 2060; JOUR 2310*** or SPHS 1020*. (Some majors require a specific course.)

**For honors students only*

***For international students only*

****For journalism majors only*

4. Literature (3 hours in addition to the university core): Any 2000-, 3000- or 4000-level English literature course.

5. Foreign Language (3–14 hours or proficiency): Must attain Intermediate II (2050) level (prerequisite for 2050 course is 2040; prerequisite for 2040 course is 1020; prerequisite for 1020 course is 1010). Students pursuing a Bachelor of Science degree should consult their adviser about core requirements.

Major and Minor

For requirements in the major and minor, students should consult “General University Requirements” in the Academics section, and department or division sections.

Other Requirements

Elective hours as needed at either the lower level or advanced level to meet the minimum of 128 semester hours for graduation, including 42 advanced hours. Electives should be chosen in consultation with an adviser.

Teacher Certification

The College of Arts and Sciences encourages students to explore teaching as a career option. The student’s departmental adviser or academic adviser in the Dean’s Office for Undergraduates and Student Advising in GAB, Room 220, can assist students with course requirements for certification. Students seeking certification for grades 8–12 must also complete the required 21 hours in upper-level education courses (EDSE 3800, 3830, 4060, 4070, 4108,

4118, 4840) and meet all GPA requirements to apply for state certification. Students seeking certification for grades EC–12 must complete a set of pedagogy courses specific to their teacher certification area (see College of Education adviser for list of courses) and must meet all GPA requirements to apply for state certification. In order to enroll in the first required education courses, the student must make application to the certification program in the College of Education in Matthews Hall, Room 105. All state certification requirements and information on required examinations are available on the web site of the State Board for Educator Certification (SBEC), www.sbec.state.tx.us. Students interested in post-baccalaureate certification or pursuing a master’s degree with certification must make application and meet all admission requirements of the Toulouse School of Graduate Studies.

Teacher Certification Areas

Secondary (Grades 8–12)

Biology (Life Science)

Chemistry (Physical Science)*

Communications (Speech)

Dance

English (English Language Arts and Reading)

History

Journalism

Mathematics*

Physics (Physical Science)*

Social Science (Social Studies)

All-Level (Grades EC–12)

Foreign Language (French, German, Spanish)

Theatre

*Students should consult with the department faculty adviser for additional certification options. See department section of this catalog for further information regarding teacher certification.

Scholarships

The Charles T. and Mildred L. Newell Memorial Scholarship

To qualify, a student must meet minimum entrance and academic performance standards of the College of Arts and Sciences, enroll as a full-time undergraduate student majoring in a College of Arts and Sciences academic program, and maintain full-time enrollment at the university (unless the applicant has less than twice the number of semester hours required to be full-time remaining in the degree plan).

The deadline to apply for this scholarship is April 1. Applications are available during February and March.

President's Council Scholarship

To qualify, a student must meet minimum entrance and academic performance standards of the College of Arts and Sciences, enroll as a full-time undergraduate student majoring in a College of Arts and Sciences academic program, and maintain full-time enrollment at the university (unless the applicant has less than twice the number of semester hours required to be full-time remaining in their degree plan).

The deadline to apply for this scholarship is April 1. Applications are available during February and March.

The Frank C. Spencer Rural Student Scholarship

To qualify, a student must come from a "highly rural" Texas county defined by population density, demonstrate financial need, meet minimum and continuing academic performance standards, and maintain full-time enrollment in a program of the College of Arts and Sciences (unless the applicant has less than twice the number of semester hours required to be full-time remaining in the degree plan).

National Student Exchange

Connie Fickenscher, Campus Coordinator

An undergraduate student at the University of North Texas may apply to spend a term/semester or a year on exchange at one of more than 175 colleges and universities that are members of the National Student Exchange, a consortium that provides for students within the United States, Canada, Virgin Islands, and Guam what study abroad programs offer on an international scale. Through NSE a student can travel and live at another university site, take courses that are not offered at UNT, assess an out-of-state institution for future graduate study, and enjoy a part of the United States that is quite different from Texas.

UNT's membership in the National Student Exchange makes it possible for a UNT student to attend another NSE member institution at the same cost as attending UNT or at the in-state tuition rate of the other university. The student remains enrolled at UNT, with all the advantages of continuous enrollment. Through NSE coordinators on the two campuses, the tasks of advising, registering for classes and housing can be worked out to provide the student with a smooth exchange experience. UNT students may apply for financial aid on our campus for the term(s)/semester(s) they will be on exchange.

Students must be enrolled full time at UNT for two consecutive long terms/semesters prior to exchange including the term/semester in which they apply and must have a minimum cumulative UNT GPA of at least 2.5 at the time of application and when the exchange actually takes place. All aspects

of the application process must be completed by February 15 prior to the academic year in which the student wishes to go on exchange. Since exchanges are limited, an exchange through NSE is a privilege for which the student must be selected.

Students who are interested in learning more about an exchange through NSE should contact the campus coordinator to learn the procedures of applying and qualifying. Interested students should stop by GAB, Room 220 to pick up a copy of the NSE Directory, which explains how the program works and provides detailed information about every institution that participates in NSE.

Interdisciplinary Majors

The College of Arts and Sciences offers two interdisciplinary programs of study: General Studies and Social Science. Each of these programs is designed to provide students with the flexibility to create a more personalized area of study. Students are able to select courses across disciplines and within the focus of the chosen interdisciplinary major to enhance educational and career goals.

Bachelor of Arts with a Major in General Studies

Degree Requirements

- Hours Required and General Requirements:** Students must complete a minimum of 128 semester hours, of which 42 must be advanced, and fulfill all degree requirements for the Bachelor's degree as specified in the general university degree requirements and College of Arts and Sciences requirements.
- Major Requirements:** The general studies major of 36 advanced hours, comprising 12 advanced hours in each of three fields, is subject to the following limitations.
 - At least one field must be chosen from among those offered in the College of Arts and Sciences.
 - If more than one field is chosen from outside the College of Arts and Sciences, both may not be selected from the same school or college.
 - No more than one field may be selected from a single department within the College of Arts and Sciences.
 - A 2.5 grade point average is required on all courses attempted in the major.
 - No more than 24 hours in one field may count toward the degree.
- Minor:** None required.
- Electives:** See four-year plan.

For more information concerning this major, including how previously earned college credit will apply toward the degree, contact an academic counselor in the

Dean's Office for Undergraduates and Student Advising,
College of Arts and Sciences, GAB, Room 220.

BA with a Major in General Studies

Following is **one** suggested four-year degree plan.
Students are encouraged to see their adviser each
semester for help with program decisions and enroll-
ment. Students are responsible for meeting all course
prerequisites.

FRESHMAN YEAR

FALL	HOURS
ENGL 1310, College Writing I*	3
HIST 2610, United States History to 1865*	3
LANG 2040, Foreign Language (intermediate)**	3
MATH (above College Algebra, except 1350)**	3
Social and Behavioral Sciences*	<u>3</u>
Total	15

SPRING	HOURS
ENGL 1320, College Writing II*	3
HIST 2620, United States History Since 1865*	3
LANG 2050, Foreign Language (intermediate)**	3
Communication**	3
Natural Sciences**	<u>4</u>
Total	16

SOPHOMORE YEAR

FALL	HOURS
PSCI 1040, American Government*	3
Elective	3
Elective	3
Humanities*	3
Physical Science**	<u>4</u>
Total	16

SPRING	HOURS
PSCI 1050, American Government*	3
Elective	3
Elective	3
Literature**	3
Visual and Performing Arts*	<u>3</u>
Total	15

JUNIOR YEAR

FALL	HOURS
First Field (advanced)	3
First Field (advanced)	3
Second Field (advanced)	3
Second Field (advanced)	3
Laboratory Science**	<u>4</u>
Total	16

SPRING	HOURS
First Field (advanced)	3
First Field (advanced)	3
Second Field (advanced)	3
Second Field (advanced)	3
Elective	<u>2</u>
Total	14

SENIOR YEAR

FALL	HOURS
Third Field (advanced)	3
Third Field (advanced)	3
Cross-Cultural, Diversity and Global Studies*	3
Elective (advanced)	3
Elective	3
Elective	<u>3</u>
Total	18

SPRING	HOURS
Third Field (advanced)	3
Third Field (advanced)	3
Elective (advanced)	3
Elective	3
Elective	3
Wellness*	<u>3</u>
Total	18

*See the University Core Curriculum section of this cata-
log for approved list of course options.

**See Arts and Sciences degree requirements section of
this catalog for approved list of course options.

Actual degree plans may vary depending on avail-
ability of courses in a given semester. Some courses
may require prerequisites not listed. Additional
requirements for the General Studies (GNST) major are
outlined in the College of Arts and Sciences section of
this catalog under "Interdisciplinary Majors." Contact
the GNST adviser in the Dean's Office for Under-
graduates and Student Advising, College of Arts and
Sciences, General Academic Building, Room 220.

Bachelor of Arts with a Major in Social Science Degree Requirements

- Hours Required and General Requirements:**
Students must complete a minimum of 128 semes-
ter hours, of which 42 must be advanced, and fulfill
all degree requirements for the Bachelor's degree as
specified in the general university degree require-
ments and College of Arts and Sciences requirements.
- Major Requirements:** An integrated major in
social science for the Bachelor of Arts degree requires
48 semester hours in the social sciences, 24 of which
must be advanced and must include 18 hours in one
field chosen from anthropology, economics, geog-
raphy (regional science only), history, philosophy,
political science, psychology, social work and sociol-
ogy, plus 30 hours in at least two other of these fields.
- Minor:** None required.
- Electives:** See four-year plan.

For more information concerning this major,
contact an academic counselor in the Dean's Office
for Undergraduates and Student Advising, College of
Arts and Sciences GAB, Room 220.

Teacher Certification

The College of Arts and Sciences encourages students to explore teaching at the secondary level as a career option. The student's academic adviser in the Dean's Office for Undergraduates and Student Advising in GAB, Room 220, can assist students with specific requirements for teacher certification in Social Studies. Upon completion of this program, students will be prepared to sit for the certification examinations in Social Studies.

Requirements: HIST 1050, 1060, 2610, 2620, 4700; 3 hours upper-division United States History and 3 hours upper-division European or African, Asian and Latin American History selected from the approved course lists; ECON 1100, 1110, 3050, and ECON 4100 or 4850; GEOG 1170, 1200, 1710; PSCI 1040, 1050, and PSCI 4200 or 4210; PSYC 1630, 1650; SOCI 1510, SOCI 4160 or 4750; and SOCI 4870. *See major for additional course work and GPA requirements.*

Students must also complete the required 21 hours in upper-level education courses (EDSE 3800, 3830, 4060, 4070, 4108, 4118, 4840) and meet all GPA requirements to apply for state certification. In order to enroll for the first required education course, the student must make application to the certification program in the College of Education in Matthews Hall, Room 105.

All state certification requirements and information on required examinations are available on the web site of the State Board for Educator Certification (SBEC), www.sbec.state.tx.us.

BA with a Major in Social Science

*Following is **one** suggested four-year degree plan. Students are encouraged to see their adviser each semester for help with program decisions and enrollment. Students are responsible for meeting all course prerequisites.*

FRESHMAN YEAR

FALL	HOURS
ENGL 1310, College Writing I*	3
HIST 2610, United States History to 1865*	3
LANG 2040, Foreign Language (intermediate)**	3
MATH (above College Algebra, except 1350)**	3
Social and Behavioral Sciences*	<u>3</u>
Total	15

SPRING	HOURS
ENGL 1320, College Writing II*	3
LANG 2050*, Foreign Language (intermediate)**	3
HIST 2620, United States History Since 1865*	3
Communication**	3
Natural Sciences**	<u>4</u>
Total	16

SOPHOMORE YEAR

FALL	HOURS
PSCI 1040, American Government*	3
Elective	3
Elective	3
Humanities*	3
Physical Science**	<u>4</u>
Total	16

SPRING	HOURS
PSCI 1050, American Government*	3
Social Science	3
Elective	3
Literature**	3
Visual and Performing Arts*	<u>3</u>
Total	15

JUNIOR YEAR

FALL	HOURS
Social Science	3
Social Science (advanced)	3
Elective (advanced)	3
Elective (advanced)	3
Laboratory Science**	<u>4</u>
Total	16

SPRING	HOURS
Social Science (advanced)	3
Social Science	3
Elective (advanced)	3
Elective (advanced)	3
Elective	<u>2</u>
Total	14

SENIOR YEAR

FALL	HOURS
Social Science (advanced)	3
Social Science (advanced)	3
Social Science (advanced)	3
Cross-Cultural, Diversity and Global Studies*	3
Elective	3
Elective (advanced)	<u>3</u>
Total	18

SPRING	HOURS
Social Science (advanced)	3
Social Science (advanced)	3
Social Science (advanced)	3
Elective (advanced)	3
Elective	3
Wellness*	<u>3</u>
Total	18

*See the University Core Curriculum section of this catalog for approved list of course options.

**See Arts and Sciences degree requirements section of this catalog for approved list of course options.

Actual degree plans may vary depending on availability of courses in a given semester. Some courses may require prerequisites not listed. Additional requirements for the Social Science (SOSC) major are outlined

in the College of Arts and Sciences section of this catalog under "Interdisciplinary Majors." Contact the SOSC adviser in the Dean's Office for Undergraduates and Student Advising, College of Arts and Sciences, General Academic Building, Room 220. Students may wish to use opportunities for electives to complete a minor of their choice or secondary education courses for teacher certification.

Interdisciplinary Minors

African-American Studies

A minor in African-American studies requires 18 hours, including HIST 4440, 4450 and 4580, plus three of the following courses chosen in consultation with an adviser in the Department of History and representing at least two different departments: AGER 4560, ANTH 2350, ANTH 4030, CJUS 3700, CJUS 4870, COMM 4260, HIST 4260 (when topic relates to African-American studies), HIST 4263 (when topic relates to African-American studies), HIST 4590, HIST 4830, HIST 4840, JOUR 4250, MUET 3030, MUJS 4470, PSCI 3100 (when topic relates to African-American studies), PSCI 4200, SLIS 4685 or SOCI 2010.

Alternative Dispute Resolution

A minor in alternative dispute resolution requires a total of 21 hours, including 9 advanced, and consists of AECO 4000, 4120, 4420 and COMM 3320, plus three courses from the following list chosen in consultation with an undergraduate adviser in the Institute of Applied Economics and representing at least two different academic departments: AECO 4020, BLAW 3430, CJUS 3210, MGMT 3870 or PSYC 3640.

Students interested in this minor should contact Dr. William L. McKee, Institute of Applied Economics, Chilton Hall.

Asian Studies

Various courses are offered in the areas of anthropology, art, history, geography, philosophy and political science to complete the 18-hour minor in Asian studies. Students interested in this minor should contact Dr. Harold Tanner, Department of History, Wooten Hall.

International Studies

A minor in international studies requires 18 hours, including at least 6 advanced hours chosen from a multidisciplinary list of courses available in the Department of Political Science. Nine hours must be in one area of concentration, with the remaining hours distributed between one or two other areas. See international studies major for areas and courses.

Jewish Studies

A minor in Jewish studies requires 18 hours, including PHIL 3575 (Judaic Religion and Philosophy) and one of the following: HIST 4315 (History of Anti-Semitism from Ancient Times to Present), HIST 4320 (Anti-Semitism in Europe: French Revolution to Present) and HIST 4390 (The Holocaust, 1933–1945). In addition, four courses chosen in consultation with the director of the Jewish Studies Program and representing at least two different departments are required. These courses include, but are not limited to, the following: HIST 4260 (when taught as "Arab-Israeli Wars," "Jewish Women: A World Perspective," "Rome's Jewish Wars and the Roman Near East" or as "The Jewish Experience in America"), HIST 4320 (Anti-Semitism in Europe, French Revolution to Present), HIST 4385 (Nazi Germany), HIST 4390 (The Holocaust, 1933–1945), ENGL 3923 (American Jewish Writers), ENGL 4800 (when taught as "Literature and the Holocaust" or "Bible as Literature"), HEBR 1010-1020 (Elementary Hebrew I and II), HEBR 2040-2050 (Intermediate Hebrew I and II), MUMH 4800 (Nazism, Judaism and the Politics of Classical Music in Germany), MUMH 4810 (Jews, Judaism, Anti-Semitism and Opera), PHIL 3570 (Hebrew Bible), PHIL 3575 (Judaic Religion and Philosophy) or PHIL 4960 (when taught as either "Introduction to Judaism" or "Rabbinic Judaism").

Mexican-American Studies

A minor in Mexican-American studies requires 18 hours, including ANTH 3100.13, HIST 3150 and 4150, plus three of the following courses chosen in consultation with the Mexican-American studies minor adviser and representing at least two different departments: ANTH 3100.12, ENGL 3922, HIST 4155, 4160, 4180 and 4190, SPAN 3040, SOCI 2010, WMST 4240. Periodic special topics courses offered by departments in the fine arts, humanities and social sciences (when topics relate directly to Mexican-American studies, and with permission of the Mexican-American studies minor adviser) may also qualify and be included as part of the Mexican-American studies minor on a course-by-course basis.

Peace Studies

Students wishing to obtain a minor in peace studies must complete a minimum of 18 hours (6 advanced), including PSCI 3500 plus at least one course from each of these three areas:

- Determinants of Violence: PSCI 4640, 4821, 4825; or, when topic is appropriate, ANTH 4600, 4610, HIST 4260, PSCI 3100, 4700 or 4820.
- Conflict Management: AECO 4000, 4120; COMM 3320; PSCI 4822 or HIST 4260.

- Issues of Justice: ANTH 2035, 4050; ECON 3150; HIST 3150, 4440, 4450, 4780; PSCI 4210, 4520, 4630, 4800, 4810, 4823, 4824; SOCI 3300, 4160, 4540; or, when topic is appropriate, HIST 4260, PSCI 3100, 4490 or 4820.

Any of the following courses may also be taken to fulfill the remaining 6 hours: AECO 4420; HIST 4070, 4260, 4350, 4650, 4660; PSCI 3810; or SOCI 4750. Practicums and special problems courses may also apply if approved by the Director of Peace Studies. Interested students should contact Dr. David Mason, Department of Political Science, Wooten Hall, (940) 565-2386.

Religion Studies

A minor in religion studies consists of 18 semester hours from the departments of philosophy and religion studies, anthropology, history and English. Twelve hours must be selected from an approved list of courses, including at least one course in western religion and one course in eastern or comparative religion. The additional 6 hours are to be selected with and approved by the religion studies adviser.

Social Science

A minor in social science requires 6 hours in one department and 12 hours in another department, including 6 advanced hours. Courses may be chosen from the following areas: anthropology, economics, geography (regional science only), history, philosophy, political science, psychology, social work and sociology.

Study of Sexualities

A minor in the study of sexualities requires 18 hours, including at least 6 advanced hours. Courses across the curriculum address the impact of sexual attitudes and behaviors on history, politics, social arrangements, artistic and literary creation, and conceptions of the self. Students will investigate the ways in which human sexuality has been shaped by medical and scientific discourse, economic imperatives, philosophy, religion, law, politics, art, visual culture and literature. Students choose from a multidisciplinary list of approved courses updated annually. Students interested in this minor should contact Dr. Marilyn Morris, Department of History, Wooten Hall.

Women's Studies

A minor in women's studies may be earned by successfully completing 18 semester hours, including WMST 2100, 4100, and four additional 3-hour courses approved for women's studies credit. Nine of the hours taken must be advanced. The electives are chosen from an inventory of over 60 gender-related courses representing nearly every discipline in the university curriculum. A comprehensive listing of

these courses, as well as extensive information on the women's studies program, can be found online at www.wmst.unt.edu. All women's studies students are encouraged to meet with the director and/or the advising staff in order to design an academic plan that best complements the major interests of the student. Information on a variety of scholarships and internships for women students is maintained in the women's studies office and on the web site at www.wmst.unt.edu.

Students in women's studies may interact with more than 30 faculty members who regularly teach courses examining women's roles, activities, and experiences throughout history and across cultures. These interactions expand understanding of gender differences, cultural diversity, and social changes while strengthening critical thinking and communication skills. Faculty regularly present colloquia and lectures concerning their scholarly research and current issues in women's studies. Students are also encouraged to develop a special project of study in cooperation with these faculty. These special projects may be used to fulfill the requirements for one elective.

Students interested in this minor should contact the Director of Women's Studies, General Academic Building, Room 467, P.O. Box 305189, Denton, TX 76203-5189; (940) 565-2098. E-mail: wmst@unt.edu.

Preprofessional Programs

Health-Related Preprofessional Programs

College of Arts and Sciences
Dean's Office for Undergraduates and Student Advising
Health Professions Advising
General Academic Building, Room 220
(940) 565-2051
E-mail: dbeck@unt.edu

**Dr. Debrah Beck, Health Professions
Coordinator and Joint Admission Medical Program
Faculty Director**

**Advising Contact for Premedical, Pre-Dental,
Pre-Veterinary, Pre-Optometry, Pre-Podiatry,
Pre-Physician Assistant, Pre-Physical Therapy,
Pre-Pharmacy**

Dr. Debrah Beck
Health Professions Coordinator
P.O. Box 305189
University of North Texas
Denton, TX 76203
(940) 565-2051
E-mail: dbeck@unt.edu

Advising Contact for Pre-Chiropractic, Pre-Dental Hygiene, Pre-Nursing, Pre-Nutrition, Pre-Occupational Therapy, Pre-Pharmacy, Pre-Respiratory Care

Jwanda Roberson
Allied Health Adviser
P.O. Box 305189
University of North Texas
Denton, TX 76203
(940) 565-2051
E-mail: jlrober@unt.edu

Premedicine and Pre-Dentistry

The Health Professions Coordinator assists all students in meeting entrance requirements, completing the application process, and acquiring required recommendations for admission to a professional school. Students who wish to apply to a professional school should attend an orientation session when they enter the university and the informational seminars conducted by the Preprofessional Advisory Committee (PPAC). Students in their junior year should attend the Personal Statement Workshop in October, the application seminar in November and February and the Interview Workshop in April. Exact dates, times, and locations are posted in Room 220 of the General Academic Building. Students are required to interview with the PPAC, usually in May or September.

The recommended course of study is a bachelor's degree in any field that is of interest to the student. Most medical and dental schools require two years of biology, two years of chemistry, one year of physics, one year of English composition and calculus as minimum requirements. Students should consult with the Health Professions Coordinator for specific admission requirements for health professions schools.

During the spring term/semester before application to the professional school, the student should take the Medical College Admission Test (MCAT) for premedical, the Dental Aptitude Test (DAT) for pre-dental, the Graduate Record Exam (GRE) for pre-veterinary, the Optometry Admission Test (OAT) for pre-optometry or the Pharmacy College Admission Test for pre-pharmacy students. The pre-professional student should begin an application file with the Health Professions Coordinator in the General Academic Building, Room 220. The application process usually takes place during the spring term/semester of the junior year and includes an interview with the Preprofessional Advisory Committee. Courses of study are also available for pre-veterinary, pre-optometry and pre-podiatry. Consult the Health Professional Coordinator in GAB, Room 220, for more information.

Early Admission

Students seeking admission into medical or dental school prior to earning or without a bachelor's degree

should consult the Health Professions Coordinator for information on the use of credits earned in basic sciences during the first year of medical or dental school toward a bachelor's degree from UNT.

The University of North Texas and the Texas College of Osteopathic Medicine (TCOM) at the University of North Texas Health Science Center at Fort Worth (UNTHSC-FW) have developed a dual degree program. Students in bachelor's degree programs in biology, chemistry or biochemistry may apply for this program. Students should initiate their application at TCOM. Further information may be obtained by contacting the Office of Medical Student Admissions at (800) 535-TCOM (535-8266) or the Health Professions Coordinator, General Academic Building, Room 220.

Other Health-Related Preprofessional Studies

UNT offers all of the university requirements for admission to allied and other health-related professional programs including: chiropractic, dental hygiene, nursing, occupational therapy, pharmacy, physical therapy, physician assistant, and others.

Students interested in the above fields should consult with the Allied Health Professions Adviser, General Academic Building, Room 220. The adviser can assist in selecting a program of study to meet the entrance activities and requirements for the various programs in and out of Texas.

Suggested Activities and Timeline for UNT Premedical, Pre-Dental and Pre-Veterinary Students

Freshman/Sophomore Years

- Contact the Health Professions Counselor for your area of interest.
- Take an average to heavy course load (14–16 hours or more)
- Start biology, chemistry and math classes
- Use appropriate resource services on campus
- Become an active member of the pre-professional honor organization, Alpha Epsilon Delta, or the UNT Dental Society
- Attend Pre-Health Professions Orientation and information sessions
- Get involved in volunteer and extracurricular activities
- Get to know your professors – they are the ones who will write letters of recommendation for you
- Choose a major – Premed/Pre-Dent/Pre-Vet, etc., is not a major
- Learn Spanish
- Take advantage of free tutoring UNT has to offer:
 - Learning Center (University Union, Room 323, 369-7006)
 - Chemistry Resource Center (Chemistry Building, Room 119, 565-2556 or 565-2713)

- Discovery Project (Highland Hall, Room 201, 565-4754)
- Math Lab (General Academic Building, Room 440, 565-3592)
- Physics Instructional Center (Physics Building, Room 209, 565-3275)
- Writing Lab (Auditorium Building, Room 105, 565-2563)

Junior Year – usually the application year

- Complete all professional school admission requirements by the end of the spring term/semester
- Begin drafting your personal statement – come to the Personal Statement Workshop in October
- Start preparing for the MCAT/DAT/GRE/OAT or other required entrance exam
- Attend Application Seminar and workshops in the spring term/semester
- Establish file with PPAC (Pre-Professional Advisory Committee)
- Premed: take the MCAT in spring/summer
- Pre-Dental: take the DAT in spring/summer
- Pre-Optometry: take the OAT in spring/summer
- Pre-Vet: take the GRE in spring/summer
- Apply early
- Learn Spanish

Senior Year

- Complete interviews with medical/dental/optometry/vet schools
- Acceptance by the professional schools starts in the spring semester
- File financial aid forms (professional schools will help with this)
- Inform the PPAC of acceptances, rejections and waiting lists
- Request final transcript(s) be sent to the school that accepted you
- Complete degree requirements
- If necessary, follow up on future/alternative career plans with health professions counselor
- Learn Spanish

Remember that a solid academic record is important, but many other things are taken into account in gaining admission to a professional school, things such as:

- Consistency of grades
- Quality of performance in required courses
- Course load per term/semester (14–17 hours)
- Discrepancies between GPA and entrance exam
- Volunteer service/community service
- Showing real concern and empathy for others
- Being a well-rounded individual – take other courses besides biology and chemistry

Suggested High School Preparation for the Preprofessional Programs at UNT:

To be a successful student in the Premedical Program, Pre-Dental Program, Pre-Veterinary Program or the Pre-Optometry Program, it is advisable for the high school student to prepare adequately before enrolling at UNT. The Distinguished Achievement Program (DAP) is highly recommended and helps to prepare students for the rigors of the preprofessional program at UNT. It is advisable that high school students complete Advanced Placement (AP) courses in biology, chemistry, physics and calculus, as well as English composition and Spanish classes before enrolling in preprofessional prerequisite courses at UNT. Involvement in community service projects, church activities, clubs and service organizations is also recommended.

Health Professions Scholarships

Joint Admission Medical Program (JAMP)

The program was created by Senate Bill 940 of the 77th Texas Legislature in 2001 to provide services to support and encourage highly qualified, economically disadvantaged students pursuing a medical education. The program was created to award undergraduate and medical school scholarships to qualified students. It also provides for the admission of those students who satisfy both academic and non-academic requirements to at least one participating medical school.

Scholarship money will be awarded each term/semester beginning in the student's sophomore year of college and also for the summer internships at a Texas medical school. Special mentoring and personal assistance is provided to prepare for medical school.

The scholarship is for newly enrolled freshmen students who are eligible for a Pell Grant, who are enrolled in 27 hours cumulatively over the fall and spring semesters at the University of North Texas, and who have received a score equal to or higher than the mean score for Texas on the SAT and/or ACT. The students must maintain a 3.25 GPA or higher in course work. This scholarship is only for premedical students. For additional information, contact the JAMP faculty director in GAB, Room 220. This scholarship deadline is September 1 of the student's sophomore year.

Dr. Glenn Mitchell Memorial Scholarship

To qualify, a student must be a premedical student, should have completed 60 hours of premedical courses, must demonstrate academic excellence and must be competitive for admission to medical school.

This scholarship application is available February through March of each year. The scholarship will be awarded for the following fall and spring terms/semesters.

Rafes Premedical Scholarship

To qualify, a student must be a full-time UNT premedical student, should currently be enrolled in freshman biology and/or chemistry, demonstrate scholastic excellence and be competitive for admission to medical school.

This scholarship application is available February through March of each year. The scholarship will be awarded for the following fall and spring terms/semesters.

Charles and Mabel Saunders Pre-Dental Scholarship

To qualify, a student must be a pre-dental student, must have 60 hours of pre-dental courses and must demonstrate academic excellence.

This scholarship application is available February 1 through March 1 of each year. The scholarship will be awarded for the following fall and spring terms/semesters.

Doris Scales Pre-Med President's Council Scholarship

To qualify, a student must be a full-time UNT premedical student and meet the minimum entrance and academic performance standards of the College of Arts and Sciences. The applicant must have completed or be enrolled in at least 4 hours of premedical biology, chemistry and/or physics courses. The applicant must have a 3.25 or higher GPA in the sciences and overall. For application by an entering freshman, the applicant must rank in the top quarter of his or her high school graduating class and have a minimum score on the SAT of 1000 or 25 on the ACT.

The application for this scholarship is available February through March of each year. The scholarship will be awarded for the following fall and/or spring terms/semesters.

Other Preprofessional Studies

Pre-Theology and Pre-Seminary

Students intending to pursue post-baccalaureate work in seminaries or divinity schools should consult with the undergraduate adviser of the Department of Philosophy and Religion Studies.

Pre-Law

Future law school students should take courses that emphasize writing and oral skills, research into problems facing society, logical reasoning, the American legal system, business law and constitutional law. There is not, however, a specific major recommended or suggested for students interested in a legal career. Pre-law students should take the Law School Admission Test during the summer before or the fall term/semester of their senior year. For further advice,

students should consult early in their freshman or sophomore year at UNT with Dr. Kimi King, the pre-law adviser, in Wooten Hall, Room 148. E-mail: prelaw@unt.edu.

Department of Biological Sciences

Main Departmental Office
Biological Sciences Building, Room 210
P.O. Box 305220
Denton, TX 76203-5220
(940) 565-2011

Web site: www.biol.unt.edu

Undergraduate Advising Office
Biological Sciences Building, Room 127
(940) 565-3627
Fax: (940) 565-3821

Art Goven, Chair

Faculty

Professors Atkinson, Beitinger, Burggren, Chapman, Dickson, Fitzpatrick, Fuchs, Goven, Gross, Jagadeeswaran, Kennedy, Kunz, La Point, O'Donovan, Pirtle, Schafer, Waller, Zimmerman. *Associate Professors* Benjamin, Dickstein, Root, Schwark, Sinclair, Smith, Tam, Venables. *Assistant Professors* Ayre, Dzialowski, Padilla, Stevens. *Lecturer* Hughes.

Introduction

Modern biology encompasses the study of all aspects of living systems from the molecular basis of genetic inheritance to the interactions between organisms and the environment. The mission of the Department of Biological Sciences is to provide quality education leading to bachelor's, master's and doctoral degrees in biology, environmental biology, biochemistry and allied health sciences. A vital component of that mission is scholarly activity, and faculty in the department conduct relevant basic and applied research and provide professional expertise and service to local, state and national constituencies. Central to our mission is quality teaching, and faculty engage in instructional development to enhance their abilities to train professionals who will have the most up-to-date skills and professional ethics for meeting the demands of a technological society. Our success is measured by the success of our students and the quality of our intellectual contributions to the improvement of society.