

COLLEGE of ARTS and SCIENCES

Dean • *Waded Cruzado-Salas*

Associate Dean • *Robert J. Czerniak*

Associate Dean • *Jeffrey P. Brown*

Advising Center Coordinator • *Virginia Salcido*

Advising Center Associate Coordinator • *Debbie Hands*

Advising Center Assistant Coordinator • *James J. O'Connor*

Student Records • *Hilda M. Olivas*

Bachelor of Arts—Majors in Anthropology, Art, Biology, Chemistry, Communication Studies, Economics, English, Foreign Languages, Government, History, Journalism and Mass Communications, Philosophy, Physics, Psychology, Sociology, Theatre Arts, Women's Studies

Bachelor of Science—Majors in Biology, Biochemistry, Chemistry, City and Regional Planning, Computer Science, Geography, Geology, Mathematics, Microbiology, Physics

Designated Bachelor's Degree—in Conservation Ecology, Criminal Justice, Fine Arts, Music, Music Education

Two-year Degrees—Associate in Criminal Justice

Programs offered in the College of Arts and Sciences prepare students for a variety of career opportunities and for graduate study. The broad curriculum offered provides both the motivation and the tools for lifelong learning experiences.

While the ultimate responsibility for planning an academic program in compliance with university, college, and departmental requirements rests with the student, the college recognizes the importance of helping students work out appropriate academic programs. All freshmen and other unclassified arts and sciences students are advised on academic matters in the college advising center, which is located in the dean's office. In addition, all students are encouraged to contact departments for specific subject area information and career planning.

Students with 28 or more credits who have declared a major are advised in the concerned departments.

Students should consult the University section of the catalog regarding general limitations for total credit hours, independent study, and registration under S/U option. Students in the College of Arts and Sciences on academic warning or probation are limited to 15 credits per semester or 5 credits per summer session. The University section of the catalog discusses registration and withdrawal deadlines. Students may not do additional course work or repeat course exercises after the semester has ended in order to raise a grade in any Arts and Sciences course. Exceptions would be made for students completing official incompletes.

COLLEGE DEGREE REQUIREMENTS

Students must meet the following degree requirements (numbers 1-5, below):

1. Basic Academic Skills requirements in English and mathematics. See "Basic Academic Skills" in the "General Information" chapter earlier in this catalog.
2. University graduation requirements. See "Graduation Requirements" in the "General Information" chapter earlier in this catalog. Students must pass university General Education requirements and earn a minimum of 128 university level credits of which at least 54 must be upper division.
3. College core requirements, with the following stipulations:
 - a. A student must earn a grade of C or higher in each course that fulfills the college core requirements, including the final second language course when that course is part of a student's requirements. Courses satisfying the college core may also fulfill specific major or minor requirements, and may fulfill University General requirements.

- a. A student must pass three liberal studies courses, one from each of three different liberal studies area: English literature, fine arts (no more than one course in total from nonapplied art, music, and theatre), history, foreign languages (300 or above), taught in a foreign language, philosophy, or W S 202G.
- b. A student must pass three science courses, one from each of three science departments: astronomy, biology, chemistry and biochemistry, computer science, geological science, mathematical sciences, physics, or physical geography.
- c. A student must pass three social science courses, one from each of three social science areas: anthropology, communication studies, economics, social geography, government, psychology, sociology, JOUR 105G, LING 200G, or W S 201G.
- d. List of courses that fulfill the above areas may be obtained in the Arts and Sciences advising center.
- e. Courses that do not meet the college core requirements include:
 - Interim courses
 - Journalism courses (except JOUR 105G)
 - Methodology courses
 - Criminal Justice courses
 - Applied fine arts courses and techniques courses
 - Courses labeled "N" for no credit
 - Courses offered in colleges other than the College of Arts and Sciences
 - Directed readings or independent studies courses
- f. A student must fulfill the second language requirement in all Bachelor of Arts and Bachelor of Science degrees. To meet this requirement, the student must do one of the following:
 - Complete the normal foreign language course sequence: 111, 112, 211, 212. Students should enter the sequence at their proficiency level. Spanish speakers should complete the 113-213-214 sequence. Students who successfully complete either SPAN 113 or 213 or 214 (or all) may not take SPAN 111, 112, 211 or 212 for credit.
 - Challenge the 212 level of French, German, Japanese, Latin, Portuguese, Russian or Spanish, or the 214 level for the Spanish-speaking student.
 - Obtain college certification of completion of three years of one second language at the high school level with a grade of C or higher in the third year level. (i.e., equivalent to French 211, German 211, Spanish 211, etc.)

Accreditation

In the College of Arts and Sciences, the Department of Chemistry and Biochemistry is accredited by the American Chemical Society. The Journalism and Mass Communications program is nationally accredited by the Accrediting Council for Education in Journalism and Mass Communications (ACEJMC). Music curricula in the Department of Music are accredited by the National Association of Schools of Music. The master of public administration program in the Department of Government is accredited by the National Association of Schools of Public Affairs and Administration.

- Obtain, from the head of the Department of Languages and Linguistics, certification of a working knowledge of a second language if such language is not taught at New Mexico State University.
- Obtain certification of a working knowledge of a native American language from the American Indian program director.
- Successfully complete a regular university course taught in a language other than English. A student can receive credit only once for the same course taught in two languages.
- Pass a three-credit upper-division course (numbered 300 or above) taught in a foreign language by the Department of Languages and Linguistics.
- Pass C D 476, American Sign Language III with a grade of C or better.
- In the case of a foreign student who is required to take the TOEFL exam, the dean will automatically waive the foreign language requirement.

Students should satisfy the language requirement as soon as possible and take the necessary courses in consecutive semesters.

4. University General Education courses and requirements. See "General Education Courses and Requirements" in the "General Information" chapter earlier in this catalog.

5. Earn a specified number of credits in one or more major subjects, or in the case of the B.I.S., follow the official approved curriculum.

Students may complete any courses approved by the University General Education Course Certification Committee to meet University General Education requirements. In the Viewing A Wider World section, these courses must come from colleges outside the College of Arts and Sciences.

Second Language and Designated Degrees

Exceptions to the college's second language requirement for designated degrees (Conservation Ecology, Fine Arts, Music and Music Education) are stated in the departmental descriptions of degree requirements. Criminal Justice has adopted a second language requirement.

S/U Grading Option

Instructors may establish individual standards for an S grade, but the minimum standard for an S grade in College of Arts and Sciences courses is a C.

Developmental and Applied Credit Limitations

The College of Arts and Sciences may accept up to 9 credits toward graduation of applied course work, which include Occupational Education courses, BOT, S A, UNIV (not including UNIV 150 and UNIV 350), ART (applied), DANC (applied), MUS (applied and participation), THTR (applied), NURS, A EN, AXED, AG I, AGME, COLL, CCDL, CCDS, all lower-division RDG. Credits earned in developmental courses (N suffix) are not counted toward any arts and sciences degree. Students should contact the dean's office regarding the acceptability of specific courses.

In addition to the above limitation, the college will also accept a maximum of 9 credits towards graduation of applied P E and PE P courses, and ANSC 190, 191, 290, 291, 380, and 381. This restriction does not apply to PE P 185, 280, 281, 285, 286G, 295, 309, 311, 320, 341, 342, and 411.

Independent Study Courses

Students are limited to six credits in any independent study course. Independent study courses include directed reading and special topic courses, which do not carry a subtitle.

Distance Education Courses

The College of Arts and Sciences offers a variety of distance education courses each semester. Specific courses can be found under departmental course listings and the Las Cruces Extension section of the Schedule of Classes. Students who successfully complete NMSU distance education courses receive the same credit as students who take an equivalent course on the main campus. Distance education courses appear on a student's transcript in the same way as does a course taken on the main campus.

Majors, Minors and Supplementary Majors

Students who wish to obtain a bachelor's degree must select a major field or fields. For a listing of major fields, the student should see the first page of this chapter. Course requirements for majors are listed under individual departments. Students seeking to major in criminal justice must be officially admitted to the major by the department of Criminal Justice. Students should

consult the department for current admissions requirements. Until a major is selected, the student is designated as unclassified.

Each major consists of not less than 20 credits of upper-division courses (300 and above) in a specific field. Students must earn a grade of C or better for all course requirements for a major, minor, or supplementary major, including any courses required from outside the department. Students may not count an S grade towards completion of any major, minor or supplementary major requirement unless a course is automatically S/U for all enrolled students. A student may not earn a minor that bears the same name as a bachelor's degree that the student also earns. (For example, a student earning a B.S. in Biology cannot also earn a minor in Biology.) Some departments also require specific courses outside the major field. Please refer to the departmental section of the catalog for specific nondepartmental requirements. These nondepartmental requirements must be passed with a grade of C or better. It is imperative that students consult the departmental sections of this catalog and the concerned department or departments for advice in planning to fulfill requirements for declared majors.

"The requirements for academic minors in the College of Arts and Sciences are found under each offering department or program's section of this catalog. Requirements for supplementary majors are found as follows: the Supplementary Majors in Chicano Studies, Latin American Studies, and Linguistics are listed under Languages and Linguistics; the Supplementary Major in Law and Society is listed under Government; the Supplementary Major in Applied Mathematics is listed under Mathematical Sciences; and the Supplementary Major in Women's Studies is listed under Women's Studies."

Most students have considerable latitude in choosing elective courses. These are the courses beyond college and major requirements that a student must take to bring her or his total credits to 128. This latitude provides students with opportunities to major in more than one field or to devise interdisciplinary programs tailored to individual interests or future career needs.

Regardless of the option elected, the student should consult regularly with an advisor and keep track of their progress towards graduation using the online degree audit system STAR (Student Academic Requirements), at <http://www.nmsu.edu/~artsci/Advising/SDAuds.htm>.

SUPPLEMENTARY MAJORS

Applied Mathematics

Committee: Caroline Sweezy, Ph.D., Mathematics, Advisor; John Harding, Ph.D., Mathematics; Hing Leung, Ph.D., Computer Science; Ronald J. Pederson, Ph.D., Mechanical Engineering; Krist Petersen, Ph.D., Electrical and Computer Engineering; Tony Wang, Ph.D., Mathematics

The Department of Mathematical Sciences coordinates a supplementary major in applied mathematics that may be taken in addition to a regular major in any college. This program is designed to provide a multi-disciplinary education in the applications of mathematics for undergraduates intending to go to graduate school or who are interested in entering professions that require a strong background in applied mathematics, such as engineering, physical science and economics. Please refer to the entry under the Department of Mathematical Sciences.

Chicano Studies

Committee: Laura Gutiérrez Spencer, Ph.D., Chicano Programs, Eric Lopez, Ph.D., Special Education and Communication Disorders, Alison Newby, Ph.D., Sociology and Anthropology, Monica Torres, Ph.D., English, Ivan de la Rosa, Ph.D., Social Work, Loretta Salas, Special Education and Communication Disorders, Daniel Villa, Ph.D., Languages and Linguistics

The supplementary major in Chicano Studies is an important interdisciplinary addition to the undergraduate preparation offered in several areas of the social sciences and humanities. Students completing traditional majors in such fields as social work, economics, sociology and anthropology, history, government, theatre arts, art, English, languages and linguistics, nursing, mass communications, and criminal justice should consider the possibility of completing a supplementary major in Chicano Studies. This is due to the close relationship among the fields and in light of the need professionals have to deal with the cultural background of the Mexican American/Chicano inhabitants of the state, the Southwest United States, and population centers throughout the nation where Mexican American/Chicano culture is a contemporary reality. For a full description of the supplementary major in Chicano

Studies and information on specific requirements of the major, please refer to the entry under the Department of Languages and Linguistics.

Latin American Studies

Committee: José Manuel García, Ph.D., Languages and Linguistics; José Z. García, Ph.D., Government; M. Lois Stanford, Ph.D., Sociology and Anthropology; Elizabeth Zarur, Ph.D., Art

The supplementary major in Latin American Studies is an important interdisciplinary addition to the undergraduate preparation offered in several areas of the humanities and social sciences. Students completing traditional majors in such fields as Spanish, history, government, art, sociology and anthropology, linguistics, business, economics, health science, and mass communications, as well as students from other majors, should consider the possibility of completing a supplementary major in Latin American Studies. Due to New Mexico's strategic geographical position and the growing cultural and economic importance of Latin America, it will be advantageous for any professional in the areas mentioned above to have a solid background in the field. For a full description of the course offerings in Latin American Studies and information on specific requirements of the major, please refer to the entry under the Department of Languages and Linguistics.

Law and Society

Committee: Nancy Baker, Ph.D., Government; Lisa Bond-Maupin, Ph.D., Criminal Justice; Greg Butler, Ph.D., Government; Peter Gregware, Ph.D., Criminal Justice; G. Larry Mays, Ph.D., Criminal Justice; Danny Scoccia, Ph.D., Philosophy; Kim Seckler, J.D., Government; William Taggart, Ph.D., Government; Russell Winn, D.P.A., Government

Students interested in studying the American legal system and issues in law and society may choose to pursue a supplemental major in Law and Society, sponsored by the Department of Government. The Law and Society program is designed to prepare students interested in the law by developing critical thinking skills, introducing methods and concepts involved in the study of law, and providing a context for understanding law in modern society. For a description of and information on specific requirements of the major, refer to the entry under "Government" later in this chapter. Additional information is also available from the Department of Government.

Linguistics

Committee: Patricia MacGregor-Mendoza, Ph.D., Languages and Linguistics, Adviser; David Farwell, Ph.D., Computer Research Laboratory; Peter Foltz, Ph.D., Psychology; Scott Rushforth, Ph.D., Sociology and Anthropology; Robert Weissberg, Ph.D., Communication Studies

The supplementary major in Linguistics is a program whose offerings bridge two colleges and several departments. This interdisciplinary concentration offers an important supplement to the undergraduate preparation offered in several areas of the social sciences, humanities and education. Students completing traditional majors in fields that focus on understanding human nature such as communication studies, social work, sociology and anthropology, government, history, English, French, German, Spanish, journalism and mass communications, philosophy, psychology, early childhood education, elementary education, secondary education, bilingual education, TESOL, special education and communication disorders should consider completing a supplementary major in linguistics to heighten their awareness of the important role language plays in human interaction on individual and global levels. Moreover, in this day of digital text and communication, computer science majors may also benefit from a greater understanding of linguistics. For a full description of the supplementary major in linguistics and information on specific requirements of the program, please refer to the entry under the Department of Languages and Linguistics.

Women's Studies

Committee: Diane-Michele Prindeville, Ph.D., Government and Director of the Women's Studies Program; Elizabeth Alderman, Ph.D., Art; Laurie Churchill, Ph.D., New Mexico Alliance for Graduate Education and Professoriate; Sonia Crose; Alison Folsom; Lisa Frehill, Ph.D., Sociology and NSF-Advance; Rhonda McClellan, Ph.D., Education Management and Development; Ed Pines, Ph.D., Industrial Engineering; Vanessa Quiroz, M.P.A., Women's Studies; Frances Williams, Mary Wolf, Ph.D., Language and Linguistics.

Women's Studies is an interdisciplinary program which examines scholarship and theory on the history, contributions and experiences of women in diverse cultures and on the importance of gender as a social construct. The

curriculum includes a series of core courses as well as several cross-listed courses offered by other academic departments. By emphasizing knowledge of gender issues and cultural difference, the major and the minor help prepare students for a wide variety of careers including education, public policy, health, law, journalism, and social/ community service. Information on specific requirements for a major or minor in Women's Studies is available in the Women's Studies Program office.

PREPROFESSIONAL STUDIES

Prehealth Studies

Health Professions Advisory Committee: John Gustafson, Chair, Ph.D., Biology; Robert L. Armstrong, Ph.D., Physics; Brenda R. Benefit, Ph.D., Anthropology; Jeffrey P. Brown, Ph.D., Associate Dean, Arts and Sciences; Mary Hoke, Ph.D., Nursing; Daniel Howard, Ph.D., Biology; Wolfgang Mueller, Ph.D., Chemistry and Biochemistry; Larry Olsen, Ph.D., Public Health; Kevin Oshima, Ph.D., Biology; Stephen Pate, Ph.D., Physics; Daniel Scoccia, Ph.D., Philosophy; Elba Serrano, Ph.D., Biology; Wenda Trevathan, Ph.D., Sociology and Anthropology; Jerry O'Connor, Ed.D., member ex officio, Advising Center

Students planning to attend medical, osteopathic, or dental schools may major in any discipline. Biology, chemistry, biochemistry, and physics are common majors for students entering the health professions, and these fields are emphasized on medical entrance examinations like the MCAT or DAT. Summary statistics from national surveys of students taking medical entrance examinations show that majors in the social sciences and humanities score as well as science majors, so long as the minimal science requirements are met. Consequently, students should not be discouraged from pursuing a field of study outside traditional premedical curriculum. Most professional schools require chemistry, 16 credits; biology, 8-16 credits; calculus, 3 credits; and physics, 8 credits. Students planning to attend chiropractic, physical therapy, or pharmacy school may also choose to complete the preprofessional course requirements at NMSU and then transfer to the appropriate school for advanced study. The Advising Center can provide information about the area graduate programs at such institutions as Texas Tech, University of Texas at El Paso and the University of New Mexico. Students interested in public health should contact the College of Health and Social Services about that school's excellent MPH program.

Selection to professional schools is typically based on four separate but interrelated criteria: (1) evaluation of academic transcripts, (2) evaluation of scores on admissions tests, (3) letters of recommendation, and (4) personal interviews. Students interested in careers in the health profession are encouraged to enroll in A S 305, Prehealth Internship, in their junior or senior year and pursue volunteer community service activities. The Health Professions Advisory Committee works with all prospective applicants to professional school to provide advice and information on the admissions process and to ensure that all prehealth students have the best possible opportunity of gaining admission to the school of their choice. Each student is expected to register with the committee no later than the sophomore year. Registration may be accomplished in the Advising Office, College of Arts and Sciences. In addition, there is a chartered student organization for students entering the health professions.

Prelaw Studies

Committee: Nancy Baker, Ph.D., Government; Lisa Bond-Maupin, Ph.D., Criminal Justice; Greg Butler, Ph.D., Government; Peter Gregware, Ph.D., Criminal Justice; G. Larry Mays, Ph.D., Criminal Justice; Danny Scoccia, Ph.D., Philosophy; Kim Seckler, J.D., Government; William Taggart, Ph.D., Government; Russell Winn, D.P.A., Government

Students interested in attending law school may choose to pursue a supplemental major in law and society, a course of study coordinated by the Department of Government. The program provides students with a foundation in the American legal system, constitutional law, and judicial process. The program also offers classes in critical thinking, communications skills, and legal policy issues—courses key to effective law school preparation. Though most law schools require a bachelor's degree as a prerequisite for admission; few require specific undergraduate courses or majors. An undergraduate liberal arts program is an excellent background for law school.

Admission to law school generally is based on three separate but interrelated criteria: evaluation of academic transcripts, evaluation of score on the Law School Admissions Test (LSAT), and letters of recommendation. In addition, some law schools will use personal interviews or essays in the admission

process. Prospective law students are advised to take the LSAT early in their senior year. The Department of Government offers a workshop on taking the LSAT and mock LSAT exams on an occasional basis.

AEROSPACE STUDIES

Lieutenant Colonel Shannon Meade, department head

Assistant Professors Captains Caranta, Allen
(505) 646-2136

The college Air Force Reserve Officer Training Program curriculum provides preprofessional preparation for future Air Force officers. It is designed to motivate and prepare college men and women for their initial active duty assignments as Air Force commissioned officers. The curriculum is designed to give the participating student an understanding of the military instrument of national power with emphasis on the United States Air Force and how it fits into American society. Inherent in course content and methodology are opportunities for the student to develop his or her capacities to think creatively, speak and write effectively, and to lead and manage efficiently.

The Air Force ROTC Commissioning Program is open to all qualified male and female students in all academic majors leading to a bachelor's degree as well as any student who has two years remaining at the university, including graduate study. The program is divided into the General Military Course and the Professional Officer Course.

Freshman and Sophomore Years (General Military Course or GMC)

This group (AERO 121, AERO 122, AERO 221, AERO 222) provides a general background knowledge of the military establishment with emphasis on the Air Force. GMC courses may be taken out of sequence.

Junior and Senior Years (Professional Officer Course or POC)

This group (AERO 301, AERO 302, AERO 401, AERO 402) constitutes an in-depth study of topics that provides a broad preparation for a career as an Air Force officer. Students must have certain qualifications for entry and have a desire to be commissioned in the Air Force. These qualifications include, achieving a passing score on the Air Force Officer's Qualifying Test, passing a physical fitness test, and successfully completing a medical exam. They must also complete a four- or six-week summer orientation course.

Students may, with departmental approval, take POC courses out of normal sequence. However, compressed or dual enrollment in upper-division POC courses is normally prohibited. Through this department, you can also earn a minor in Aerospace Studies.

MINOR: Aerospace Studies

AERO 301, Air Force Leadership and Management I.....	3
AERO 302, Air Force Leadership and Management II	3
AERO 401, Preparation for Active Duty I	3
AERO 402, Preparation for Active Duty II	3
Six credits from among: HIST 341, American Military History, HIST 421, U.S. Foreign Relations to 1914, HIST 422, U.S. Foreign Relations since 1914, HIST 423, History of United States Intelligence, GOVT 360, International Relations, GOVT 433, Congress and the Legislative Process, GOVT 444, The American Presidency, GOVT 464, National Security Policy, GOVT 466, American Foreign Policy, and/or GOVT 491, Constitutional Law	6

ART

Department head, Spencer Fidler

Professors Fidler, Jaffe, Rose; **Associate Professors** Barelllo, Green, Stevens, D. Taylor, Zarur; **Assistant Professors** Alderman, S. Taylor, St. Aubyn; **College Assistant Professors** Cole-Dorn, Fitzsimmons
(505) 646-1705; e-mail: artdept@nmsu.edu

DEGREE: Bachelor of Arts
MAJOR: Art
EMPHASIS: Studio Art
EMPHASIS: Art History

DEGREE: Bachelor of Fine Arts
MAJOR: Studio Art
EMPHASIS: Ceramics
EMPHASIS: Drawing
EMPHASIS: Graphic Design
EMPHASIS: Metalsmithing and Jewelry
EMPHASIS: Painting
EMPHASIS: Photo/Graphics
EMPHASIS: Photography
EMPHASIS: Printmaking
EMPHASIS: Sculpture

MINORS: Art History, Studio Art

The Department of Art provides a rigorous program for the enrichment, application, development, and appreciation of the visual arts. Students in studio develop an individual aesthetic by experimenting with and expressing visual concepts in an articulate manner. Art history students acquire a comprehensive understanding of the aesthetic and cultural issues addressed within the history of art, conducting and presenting independent research. The study of art provides an appropriate background for the pursuit of careers in studio art and art history in such areas as the visual arts, graphic design, conservation, library work, museum work, advertising, architecture and interior design, photography, crafts, cinematography, education and art therapy, publishing, theatre, television, dance, industry and business, communication, religion, management, and research in the creative and academic areas. A major in art also provides students with a broad humanistic background appropriate to preparation for advanced degrees in other fields. All art majors must successfully complete ART 153 during their freshman year.

Students enrolled in this department's major(s) or minor(s) may count credits in required applied courses toward their degrees beyond the normal maximum of 9 credits allowed in the College of Arts and Sciences. However, if students change the major(s) or minor(s) or do not complete the requirements for the minor at the time of graduation, they may only count a maximum of 9 credits to the applied/occupational credits toward graduation.

DEGREE: Bachelor of Arts

EMPHASIS: Studio Art

The general studio program is designed to give the student an understanding of the fields of drawing, painting, graphic design, printmaking, sculpture, photography, jewelry and metalsmithing, ceramics, and the history and appreciation of art in the context of a liberal education.

Departmental Requirements (Total credits 66)

Freshman Year (15 credits)

ART 150, Drawing I	3
ART 153, Studio Fundamentals	6
ART 295-296, Introduction to Art History I, II	6

Sophomore Year (21 credits)

ART 151, Drawing II	3
ART 250, Drawing III.....	3
ART 297, Introduction to Art History III	3
Four 200-level studio courses.....	12

Junior Year (15 credits)

ART 350, Drawing IV	3
Three 300-level studio courses.....	9
One 300-level art history course.....	3

Senior Year (15 credits)

Three 300-level or above studio courses	9
Two 300-level art history courses.....	6
Elective art courses taken beyond the 66 required credits must be taken at a 300 level or above.	