



GRADUATE PROGRAMS
SOUTHERN METHODIST UNIVERSITY
2015-2016

NOTICE OF NONDISCRIMINATION

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Shepherd University
in the General

a publication of The
Bulletin of the University

- Undergraduate Catalog
- College of Business Graduate Catalog
- College of Health and Sciences Graduate Catalog
- College of Law Graduate Catalog
- Center for SMU Global Graduate Catalog
- College of Engineering Graduate Catalog
- Meadow School of Arts Graduate Catalog
- College of Theology Graduate Catalog
- School of Education and Human Development Graduate Catalog

In addition, the following are included:

- College of Education
- SMU-iPhD

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OFFICIAL UNIVERSITY CALENDAR

ACADEMIC YEAR 2015–2016

www.smu.edu/registrar/academic_calendar.asp

This calendar is a preliminary calendar for the academic year 2015–2016. It is subject to change without notice. For more information, contact the Office of the Registrar, 1200 University Blvd., Room 1000, Dallas, TX 75275. Phone: 972-797-2200. Fax: 972-797-2201. Email: registrar@smu.edu. Website: www.smu.edu/registrar.

Fall Term 2015

April 6–24, Monday–Friday: Election Day 2015 (Federal Election Day) – No classes. Election Day is observed on Monday, April 6, 2015. Classes resume on Tuesday, April 7, 2015.

May, July, August – TBA: Academic Advising, Student Orientation, and AARO is available for New Student Programs Student Life Office, 214-768-4560, www.smu.edu.

August 22, Saturday: Reunion Registration 9 a.m. – 5 p.m.

August 23, Sunday: Open Campus – No classes.

August 24, Monday: Fall classes begin.

August 28, Friday: Last day of classes for the semester. Classes resume on Monday, September 7, 2015.

September 7, Monday: Labor Day – No classes.

September 9, Wednesday: Last day of classes for the semester. Classes resume on Monday, September 14, 2015.

September 25–26, Friday–Saturday: Homecoming Week – No classes.

September 29, Tuesday: Early registration for the semester. Classes resume on Wednesday, October 7, 2015.

October 7, Wednesday: Last day of classes for the semester. Classes resume on Monday, October 12, 2015.

Jan Term at SMU-in-Taos

Note: The fly dates are applicable to SMU-in-Taos. Please refer to the SMU-in-Taos calendar for details.

January 1, Friday: Welcome to SMU-in-Taos

January 3, Sunday: Registration

January 4, Monday: Flycatcher class

January 13, Wednesday: Last day of class for the term. Final degrees.

January 14, Thursday: Departure

Spring Term 2016

November 2–January 22, Monday–Friday: Spring 2016 class. See the calendar for details. Instructors: Lynn Meadows

January – TBA:

April 6, Wednesday: Last day of class

April 8, Friday: Last day of class

April 18, Monday: Last day of class

April 14, Thursday: Last day of class

April 22, Friday: Last day of class

April 27–May 2, Wednesday–Monday: No classes

April 28, Thursday: Last day of class

May 2, Monday: Last day of class

May 3, Tuesday: Reading day

May 4–10, Wednesday–Tuesday: Exams (No classes)

May 11, Wednesday: Reservoir

May 13, Friday: Baccalaureate

May 14, Saturday: Commencement

May 15, Sunday: Reservoir

May Intersession

Note: Sessions are held for credit during the May intersession. Each May intersession starts on the first day of the intersession.

Dallas May Term

Classes meet 4 hours a day, Monday–Friday.

May 12, Thursday: First day of class

May 13, Friday: Last day of class

May 24, Tuesday: Last day of class

May 27, Friday: Last day of class

May 30, Monday: Memorial Day

May Term at SMU-in-Taos

Note: The fly dates are applicable to SMU-in-Taos. Please refer to the SMU-in-Taos calendar for details.

May 11, Wednesday: Travel day and arrival 26 pm

May 12, Thursday: Fly back to class

May 27, Friday: Last day of class and exam in Albuquerque

May 28, Saturday: Departure

Summer Term 2016

Summer I Session at SMU-in-Taos

Note: The fly dates are applicable to SMU-in-Taos. Please refer to the SMU-in-Taos calendar for details.

June 1, Wednesday: Travel day. Arrive at 26 pm.

June 2, Thursday: Fly to class.

June 3, Friday: Last day of class. Please refer to the SMU-in-Taos calendar for details.

June 29, Wednesday: Last day of class. In-flight time.

June 30, Thursday: Departure.

June Term at SMU-in-Taos

Note: Please refer to the SMU-in-Taos calendar for details.

GENERAL INFORMATION

SOUTHERN METHODIST UNIVERSITY

The Vision of Southern Methodist University

To create and integrate high quality education and research that will advance the Christian faith and the human condition in a global society.

The Mission of Southern Methodist University

Southern Methodist University is a Christian university committed to the advancement of the Christian faith and the human condition in a global society. The University is committed to the highest quality of teaching, research and service, to the highest standards of academic excellence, and to the highest standards of ethical conduct. The University is committed to the highest standards of academic excellence, to the highest standards of ethical conduct, and to the highest standards of service to the community. The University is committed to the highest standards of academic excellence, to the highest standards of ethical conduct, and to the highest standards of service to the community.

Office of the Registrar
University of the South
Florida
Tallahassee, Florida 32310-1600
Phone: 904.777.1000
Fax: 904.777.1001
www.usf.edu

Of the 11,272 students who graduated in 2014, 3,391 were graduates
and 4,881 were graduates. The following table shows the number of
graduates and the number of graduates who are
Newly admitted students (SMUS)

degree Bachelor of Science is accredited by the Commission on
ABET. The degree program is accredited by the Commission on
Bachelor of Arts is accredited by the Commission on ABET. ABET degree
accreditation is a national standard for engineering.

The Meadows School of the Arts is accredited by the National
Association of Schools and Degrees. The Meadows School of the Arts
is accredited by the National Association of Schools of Music. The
Department of Music is accredited by the American Music Therapy Association.
The Meadows School of the Arts is accredited by the National Association of Schools of
Theater.

The Meadows School of the Arts is accredited by the Commission on
Accreditation of Theological Schools in the United States and Canada (10
Div, P.O. Box 15275-1110 ; phone 412-788-6505) and M.Div.
M.A.M., M.S.M., M.T.S., Th.M. and D.Min. degrees
Accredited by the Society for Christian Higher Education.

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The QUEST Archaeological Program ~~is~~ ~~not~~ ~~only~~ ~~an~~ ~~archeo-~~
~~logical~~ ~~program~~ ~~that~~ ~~has~~ ~~been~~ ~~designed~~ ~~to~~ ~~provide~~ ~~the~~ ~~most~~ ~~com-~~
~~prehensive~~ ~~and~~ ~~comprehensive~~ ~~of~~ ~~its~~ ~~kind~~ ~~in~~ ~~the~~ ~~country~~

The Hydrothermal Laboratory can produce the gas
and temperature conditions for the synthesis of
epitaxial thin films of the gas
for up to 63 bar and up to 6750 degrees Celsius. There
are also other facilities available
that can be used for the synthesis of
materials at up to 1400 degrees Celsius.

The Stable Isotope Laboratory is a general research facility for
the study of the research at the University of research centers
in the field of the atmosphere and gases, and the study
of the physical and chemical processes.

Degrees Offered

The degrees available through the graduate faculty of Dedman College are the M.A., M.S. and Ph.D., as well as the Master of Science in Applied Economics and Predictive Analytics in the Master of Science in Data Science.

- Anthropology M.A., Ph.D.
- Biological Sciences M.A.
- Chemistry M.A., M.S., Ph.D.
- Chemistry M.S., Ph.D.
- Data Science, M.S.D.S.
- Geography M.S., Ph.D.
- Geology M.S., Ph.D.
- Applied Geology M.S.
- Economics M.A., M.S., Ph.D.
- Applied Economics M.A.
- Applied Economics and Predictive Analytics M.S.A.E.P.A.
- English, M.A., Ph.D.
- History M.A., Ph.D.
- Classical and Modern Languages M.S., Ph.D.
- Medical Studies M.A.
- Physics M.S., Ph.D.
- Psychology Ph.D.
- Religious Studies M.A., Ph.D.
- Social Science, M.S., Ph.D.
- Applied Statistics and Data Analysis M.S.
- Biology Ph.D.
- World Gender Studies Certificate

Admission

Admission is based on:

1. Full, international
2. Provisional, based on a conditional offer of admission. This is given when the deficiency has been noted after the student has completed a minimum of 12 semester hours of college credit. The student is advised to contact the Office of Research and Graduate Studies for more information.
3. Nondegree, when the student has completed a sufficient number of graduate credit hours to be published as a degree candidate. Nondegree admission is given to students who have earned the degree but have not applied for an advanced degree in Dedman College.

Notations on transcripts are provided by the Office of Research and Graduate Studies.

Admission Requirements

Applicants for the bachelor degree must hold a certificate or diploma issued by the accrediting agency in the country of origin, or a certificate or diploma issued by the Ministry of Education in the applicant's home country. The certificate or diploma must be equivalent to the U.S. high school diploma. Applicants must have completed the equivalent of 12 years of secondary education. Applicants must have a minimum GPA of 3.000 (on a 4.000 scale) and a minimum score on the GRE graduate school test.

International Students

Applicants must have a minimum TOEFL English language proficiency score of 80. The minimum TOEFL score is based on the Test Score Report and the English Language Test System. Scores are accepted.

Applicants who have completed the equivalent of 12 years of secondary education in their home country and achieved high school grades equivalent to U.S. high school grades may be considered for admission. Applicants who have completed the equivalent of 12 years of secondary education in their home country and achieved high school grades equivalent to U.S. high school grades may be considered for admission. Applicants who have completed the equivalent of 12 years of secondary education in their home country and achieved high school grades equivalent to U.S. high school grades may be considered for admission.

Applicants who have completed the equivalent of 12 years of secondary education in their home country and achieved high school grades equivalent to U.S. high school grades may be considered for admission. Applicants who have completed the equivalent of 12 years of secondary education in their home country and achieved high school grades equivalent to U.S. high school grades may be considered for admission. Applicants who have completed the equivalent of 12 years of secondary education in their home country and achieved high school grades equivalent to U.S. high school grades may be considered for admission.

Application Procedure

The application can be accessed at www.gsu.edu. Students should contact ad@gsu.edu for information. Applications should be received in the Graduate Office.

1. The application fee of \$75 must be paid.
2. Official transcripts from the applicant's home country must be submitted.
3. The application fee of \$75 must be paid.
4. Three letters of recommendation must be submitted.
5. GRE graduate school test scores must be submitted.
6. TOEFL English language proficiency test scores must be submitted.

Application Deadlines

Fall	December 1:	History, Ph.D., Psychology, Ph.D.
	December 31:	Religion, M.A., Ph.D.
	January 15:	Anthropology, M.A., Ph.D., English, Ph.D.
	February 1:	Education, M.A., Ph.D.
	May 1:	Final deadline
Spring	November 30:	Final deadline

Deadlines are non-negotiable. Applications received after the deadline will not be considered. Applications received on the deadline will be considered on a first-come, first-served basis.

McNair Scholars Program

SMU recognizes McNair Scholars as graduates of the Dedman College of Humanities and Sciences, the College of Arts and Sciences, the College of Business Administration, the College of Education, the College of Engineering, the College of Health and Behavioral Sciences, the College of Law, the College of Music, the College of Nursing, the College of Public Health, the College of Social Work, the College of Theology, and the College of World and International Studies. McNair Scholars are selected for their academic achievement and potential for leadership. They receive a variety of benefits, including a stipend, travel expenses, and a McNair Scholarship. For more information, visit www.smu.edu/mcnair or contact the McNair Program Director at mcnair@smu.edu.

Institute for Recruitment of Teachers Applicants

As the primary contact for the Institute for Recruitment of Teachers (IRT), SMU seeks to recruit and hire qualified teachers for its various schools. The IRT is currently accepting applications for positions in the following areas: Elementary Education, Middle School Education, and High School Education. Applicants should have a minimum of a Bachelor's degree in Education or a related field, and be licensed or eligible for licensure in the state of Texas. For more information, visit www.smu.edu/irt or contact the IRT Director at irt@smu.edu.

Master's En Route to the Doctor of Philosophy

The committee is made up of the chair and members of the faculty. The chair of the committee is the dean or a representative of the faculty. The chair and members of the committee are responsible for the following:

- 1. To advise the candidate on the progress of the dissertation.
- 2. To meet with the candidate to discuss the progress of the dissertation.
- 3. To provide the candidate with the necessary resources for the dissertation.
- 4. To provide the candidate with the necessary resources for the dissertation.

For more information on the dissertation process, please contact the Office of Graduate Studies at 1-800-737-7829.

Preparing the Dissertation for Submission

The basic requirements for the dissertation are listed in the Dissertation Guide located at www.gradat.com.

Thesis/

The dissertation should be submitted to the Office of Graduate Studies, 1000 University Avenue, Room 1000, Cambridge, MA 02138.

Field of Study	Degrees Offered	Language Requirement	Thesis/ Dissertation Requirement
Egla	Ph.D.	Pfificerjinhguge	Mandat
	M.A.	Tetadlind bydeputn	Mandat
Hjp	M.A.	Tetadlind bydeputn (pocialpna)	Phbitd
	Ph.D.	Cedifidndiat ccaim hguge, nstapd bydeputn	Mandat
Cpulari Apd Mahemts	M.S.	Ne	Opl
	Ph.D.	Ne	Mandat
MedialSties	M.A.	Cpnce interdiat Laba d n h/ndieahhguge, detnd byeximn	Mandat
Phjps	M.S.	Ne	Opl
	Ph.D.	Ne	Mandat
Pshjby	Ph.D.	Ne	Mandat
Relgisties	M.A.	Cpnce ia hguge berhan nly gex detnd hgh eximn	Mandat
	Ph.D.	Cpnce intllhguges detnd byeximn	Mandat
StatialScienc	M.S.	Ne	Mandat
	M.S.	Ne	Phbitd
	Ph.D.	Ne	Mandat
Apd Statks and Data Anlys	M.S.	Ne	Phbitd
Busines	Ph.D.	Ne	Mandat
Weml Gender Sties	Cerificat	Ne	Ne

ANTHROPOLOGY

Professor Karen L. P. Department Chair

Professors: Eric G. Big, Cal Bretl, Karen L. P., David Melz, Rudi Weheigh
Associate Professors: Michael Adbr, Sray Eist, Vicki Lck
dy Mal, McC, Na Pas, Chr, ber, R, Cal, Sha, Mis

Professors: Kacy Hback, Neely Mys, Nich Steff-Cism
Assistant Professor: Fah Nibbs

Assistant
Research

MASTER OF ARTS IN MEDICAL ANTHROPOLOGY

The M.A. in medical anthropology is a two-year program leading to a master's degree in anthropology. The program is designed to provide students with a strong foundation in anthropology and its application to medical and public health issues. Students will complete 36 credit hours of coursework, including ANTH 5336, 6343 (which is a corequisite for ANTH 5336), 5344 and 6353. ANTH 7333 is a required course. The additional coursework is selected from the following list of courses:

DOCTOR OF PHILOSOPHY IN ANTHROPOLOGY

The Ph.D. in anthropology is a four-year program leading to a doctorate in anthropology. The program is designed to provide students with a strong foundation in anthropology and its application to medical and public health issues. Students will complete 60 credit hours of coursework, including ANTH 5334, 5335, 5344, 6320, 7333, 7342, 7351. Additional coursework is selected from the following list of courses:

- Students must complete 54 hours of graduate coursework at SMU, including ANTH 7342, 7351, and 7352. In addition, students must complete coursework in the following areas: The following are required for the Ph.D. program: ANTH 5334, 5335, 5344, 6320, 7333, 7342, 7351. Additional coursework is selected from the following list of courses: ANTH 5334, 5335, 5344, 6300, 6301, 6342, 6XXX (with a grade of B- or better), 7313, 7317. Students must also complete at least 12 hours of research in the field of anthropology.
- The M.A. degree in anthropology is required for the Ph.D. program. Students must receive a minimum grade of B in all courses. The following are required for the Ph.D. program: ANTH 5334, 5335, 5344, 6300, 6301, 6342, 6XXX (with a grade of B- or better), 7313, 7317. Students must also complete at least 12 hours of research in the field of anthropology.
- Students must complete the Ph.D. program in anthropology. The following are required for the Ph.D. program: ANTH 5334, 5335, 5344, 6300, 6301, 6342, 6XXX (with a grade of B- or better), 7313, 7317. Students must also complete at least 12 hours of research in the field of anthropology.
- Students must complete the Ph.D. program in anthropology. The following are required for the Ph.D. program: ANTH 5334, 5335, 5344, 6300, 6301, 6342, 6XXX (with a grade of B- or better), 7313, 7317. Students must also complete at least 12 hours of research in the field of anthropology.

5. Student must pass a written exam in the field of anthropology.
6. Student must pass a written exam in the field of anthropology.
7. Student must pass a written exam in the field of anthropology.

THE COURSES (ANTH)

ANTH 5310 (3). HUMAN OSTEOLOGY: BIOLOGY OF THE HUMAN SKELETON. Anthropology and biology of the human skeleton, including the skull, teeth, and the axial and appendicular skeletons.

ANTH 5334 (3). HISTORY OF ANTHROPOLOGY, PART ONE. Anthropology in the 20th century. The development of anthropology in the United States and Europe.

ANTH 5335 (3). HISTORY OF ANTHROPOLOGY, PART TWO. The history of anthropology from 1960 to the present. The development of anthropology in the United States and Europe.

ANTH 5336 (3). HEALTH IN CROSS-CULTURAL PERSPECTIVE. Cross-cultural perspectives on health, medicine, and health care. Prerequisite: ANTH 2301, 3301, 3302.

ANTH 5344 (3). RESEARCH METHODS IN ETHNOLOGY. Ethnographic research methods. Fieldwork, participant observation, and other methods.

ANTH 5381 (3). FIELD METHODS IN ARCHAEOLOGY. Methods and techniques of field research in archaeology. Excavation, survey, and other methods.

ANTH 5382 (3). FIELD METHODS IN ARCHAEOLOGY. Methods and techniques of field research in archaeology. Excavation, survey, and other methods.

ANTH 5681 (6). FIELD METHODS IN ARCHAEOLOGY. Participant-observer research in archaeology. Excavation, survey, and other methods.

ANTH 5981 (9). FIELD METHODS IN ARCHAEOLOGY. Participant-observer research in archaeology. Excavation, survey, and other methods.

ANTH 6033 (0). PROSEMINAR ON ETHICS IN ARCHAEOLOGY. Research ethics in archaeology. The responsibilities of archaeologists.

ANTH 6034 (0). TEACHING SEMINAR. Research ethics in archaeology.

ANTH 6049 (0). GRADUATE FULL-TIME STATUS. Full-time graduate student status.

ANTH 6156 (1). RESEARCH IN ANTHROPOLOGY. Independent research in anthropology.

ANTH 6256 (2). RESEARCH IN ANTHROPOLOGY. Independent research in anthropology.

ANTH 6300 (3). WORLD ARCHAEOLOGY. Archaeology in the human context. The development of human culture and society.

ANTH 6301 (3). PRINCIPLES OF ARCHAEOLOGY. An introduction to the field of archaeology.

ANTH 6302 (3). STATISTICS IN ANTHROPOLOGY. This undergraduate-level course addresses the scientific and cultural aspects of the discipline of archaeology and anthropology.

ANTH 6303 (3). POLITICAL ECONOMY OF HEALTH. Explores the relationship between political and economic systems and health outcomes. Examines the impact of social and cultural factors on health and disease.

ANTH 6304 (3). MIGRATION, ETHNICITY, AND NATIONALISM. Examines the historical and contemporary processes of migration and the formation of ethnic and national identities.

ANTH 6305 (3). APPLIED ANTHROPOLOGY.

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and yndad exidrebin hisalah cchilfrelw

ANTH 6346 (3). ENVIRONMENTAL ANTHROPOLOGY AND DEVELOPMENT. Anshe
pessg balidme paly fe nmlahyan deep

ANTH 6347 (3). SEMINAR IN MESOAMERICAN ETHNOLOGY. Piles andrigó
cty Mesina by aighe la ean fell daa fahpicalah
ir isinipia

ANTH 6351 (3). RESEARCH IN ANTHROPOLOGY. Resarch ia hby

ANTH 6352 (3). RESEARCH IN ANTHROPOLOGY. Resarch ia hby

ANTH 6353 (3). RESEARCH IN ANTHROPOLOGY. Resarch ia hby

ANTH 6354 (3). RESEARCH IN ANTHROPOLOGY. Resarch ia hby

ANTH 6355 (3). RESEARCH IN ANTHROPOLOGY. Resarch ia hby

ANTH 6357 (3). STATISTICS IN ARCHEOLOGY. Aridigadat bolca

ANTH 7317 (3). ARCHAEOLOGICAL RESEARCH STRATEGIES. ~~Archaeological research strategies in the field~~
~~Methods of archaeological research strategies in the field~~

ANTH 7318 (3). LATE PLEISTOCENE PREHISTORY OF NORTH AMERICA. ~~Southwestern prehistory~~
~~Archaeology of the late Pleistocene in North America~~

ANTH 7321 (3). CERAMIC ANALYSIS FOR ARCHAEOLOGISTS. ~~Ceramic analysis for archaeologists~~
~~Excavation, analysis, and interpretation of ceramic artifacts~~

ANTH 7333 (3). DATA ANALYSIS. ~~Data analysis~~
~~Statistical methods for archaeological data analysis~~ Prerequisites: ANTH 5344, 6302 (STAT 520)

ANTH 7341 (3). CURRENT ANTHROPOLOGICAL LITERATURE. ~~Current anthropological literature~~
~~Reading and research assignments in current anthropological literature~~

ANTH 7342 (3). SEMINAR IN SOCIAL ORGANIZATION. ~~Seminar in social organization~~
~~Advanced seminar in social organization~~

ANTH 7351 (3). RESEARCH STRATEGIES IN ETHNOLOGY. ~~Research strategies in ethnology~~
~~Advanced research strategies in ethnology~~

BIOLOGICAL SCIENCES

Professor Sarah R. D'Mello

Department Chair

Professors: Sarah R. D'Mello, Richard Jeschke, William Orstein

Vikram Vogel Associate Professors: Robert Hart, John Wiseman Assistant

Professors: John Baer A. Philip Wes Senior Lecturers: E. Oberdorfer

Teresa Stecker Lecturer: Lam Caccia Wes Research Associate Professor:

Susan Radtke

ADMISSION REQUIREMENTS

Admission requirements are described by the Office of

Research and Graduate Studies at www.smu.edu

has a minimum of 16 credits

has a minimum of 18 credits

has a minimum of 16 credits

has a minimum of 18 credits

and the GRE graduate

exam is required

and the GRE graduate

exam is required

and the GRE graduate exam should be taken before the candidate

is admitted to the program

GOOD STANDING

A. Satisfactory

B. Average (3.000 to 4.000) and receive an

honorable mention

letter grade of

C. Fair to the extent

that the candidate is eligible

to receive a letter grade of

each time the candidate

is re-enrolled in the program

beginning

with the next semester of study

and the candidate is not eligible

to receive a letter grade of

MASTER OF ARTS IN MOLECULAR AND CELLULAR BIOLOGY

The M.A. in Molecular and Cellular Biology

is a two-year

graduate program that requires a minimum of

30 credits of graduate study

including

at least 12 credits of research

in the field of

research in the field of

at least 12 credits of research

MASTER OF SCIENCE IN MOLECULAR AND CELLULAR BIOLOGY

DOCTOR OF PHILOSOPHY IN MOLECULAR AND CELLULAR BIOLOGY

Advised by the degree of Doctor of Philosophy
in Molecular and Cellular Biology. Approved by the

techniques and DNA technology
and C-terminus BIOL 3304.

Prerequisites: CHEM 3372

BIOL 5305 (3). GENOMICS AND BIOINFORMATICS. Introduction to
genomics and bioinformatics in clinical research. In
depth, the technology, applications and data analysis
of high-throughput sequencing, genomics and
bioinformatics. Prerequisites: C-terminus BIOL
3304 and jindig.

BIOL 5310 (3). BIOLOGICAL CHEMISTRY: MACROMOLECULAR STRUCTURE AND FUNC-
TION. Introduction to the structure and function of
proteins, nucleic acids and polysaccharides.
Epimeric acid and amino acids, nucleic acids and
carbohydrates. The structure and function of
BIOL 5110) is
CHEM 5310 is a chemistry
biological chemistry.

BIOL 5311 (3). BIOLOGICAL CHEMISTRY: METABOLISM. Introduction to the phy-
siology of metabolism. The structure and function of
metabolism. Prerequisites: CHEM 3371, 3372. If CHEM 5311 is a
chemistry and a biology
biological chemistry.

BIOL 5312 (3). PHYSICAL BIOCHEMISTRY. Physical chemistry of
biological systems. An introduction to
biological chemistry. Prerequisites:
BIOL 1401, 1402; MATH 1338 or CHEM 3372; CHEM/BIO 5310.
ed: CHEM 5381 or 5383. If CHEM 5312 is a chemistry
the cell and a biology
biological chemistry.

BIOL 5325 (3). GENERAL AND MOLECULAR VIROLOGY. Epimeric amino
acids and amino acids. The structure and function of
viral proteins. Prerequisites: C-terminus BIOL 3304 and
jindig.

BIOL 5358 (3). ECOLOGY OF PARASITISM. The biology of parasitism.

- BIOL 6211 (2). LITERATURE OF THE BIOLOGICAL SCIENCES.
- BIOL 6214 (2). CONCEPTS IN THE BIOLOGICAL SCIENCES. **Disinfection and aseptic techniques**
- BIOL 6222 (2). CONCEPTS IN MOLECULAR GENETIC INVESTIGATION. **This course is designed to teach DNA techniques including PCR, bacterial transformation, genetic engineering and DNA sequencing**
- BIOL 6270 (2). GRADUATE RESEARCH. **Research in the biological sciences**
- BIOL 6301 (3). BIOCHEMISTRY AND STRUCTURAL BIOLOGY. **Introduction to cellular biological and molecular specific enzymes**
- BIOL 6303 (3). CONCEPTS OF EVOLUTION. **A study of the phylogenetic tree, the mechanisms of adaptation, the fossil record, biogeography and the evolution of life**
- BIOL 6304 (3). CONCEPTS IN GENETIC ANALYSIS. **A guide to the genetic analysis**
- BIOL 6306 (3). HUMAN PHYSIOLOGY. **Human cardiovascular system**
 Prerequisite: **Genetic Engineering**
- BIOL 6307 (3). CELL REGULATORY MECHANISMS. **Mechanisms of cell growth and differentiation**
- BIOL 6310 (3). ADVANCED CELL BIOLOGY. **Ultrastructure and physiology of cells and tissues**
- BIOL 6311 (3). LITERATURE OF THE BIOLOGICAL SCIENCES.
- BIOL 6312 (3). PROTEINS: STRUCTURE AND FUNCTION. **Protein synthesis, purification and characterization, enzyme activity and degradation**
- BIOL 6314 (3). CONCEPTS IN THE BIOLOGICAL SCIENCES. **Disinfection and aseptic techniques**
- BIOL 6315 (3). SELECTED TOPICS I.
- BIOL 6316 (3). SELECTED TOPICS II.
- BIOL 6319 (3). CONCEPTS IN IMMUNOLOGY. **A comprehensive introduction to the immune system and its role in disease**
- BIOL 6321 (3). MOLECULAR BIOLOGY OF PROKARYOTES. **Molecular biology and genetics of prokaryotes**
- BIOL 6322 (3). MOLECULAR BIOLOGY OF EUKARYOTES. **Structure and function of genes and genomes, differentiation and development**
- BIOL 6325 (3). CELLULAR AGING. **Nature and causes of aging**
 Prerequisite: **Cellular Biology**
- BIOL 6331 (3). CONCEPTS IN DEVELOPMENTAL BIOLOGY. **The biological basis of development and its application in medicine, agriculture and industry**
- BIOL 6350 (3). ADVANCED TOPICS IN DEVELOPMENTAL GENETICS. **Genetic aspects of development**
 Prerequisites: **BIOL 3304 and BIOL 6311**
- BIOL 6351 (3). CONCEPTS IN CELL BIOLOGY. **The structure and function of cells and tissues**
- BIOL 6360 (3). ENVIRONMENTAL AND HUMAN TOXICOLOGY. **Introduction to environmental toxicology, biochemistry and molecular biology of toxic agents**

BIOL 6365 (3). CANCER BIOLOGY. English honors program
 human cell carcinoma and breast cancer
 molecular biology.

BIOL 6370 (3). RESEARCH IN THE BIOLOGICAL SCIENCES. Research in the biological
 sciences. Contact the department.

BIOL 6371 (3). RESEARCH IN THE BIOLOGICAL SCIENCES. Research in the biological
 sciences. Contact the department.

BIOL 6372 (3). RESEARCH IN THE BIOLOGICAL SCIENCES. Research in the biological
 sciences.

BIOL 6373 (3). RESEARCH IN THE BIOLOGICAL SCIENCES. Research in the biological
 sciences.

BIOL 6375 (3). SCIENTIFIC ANALYSIS AND WRITING. Designed for
 the graduate program in biological sciences. The ec-
 triserial approach.

BIOL 6377 (3). CONCEPTS IN BIO/NANOTECHNOLOGY. Includes the at-
 tention to the development of nanotechnology and its
 applications in the fields of medicine, agriculture,
 and environmental science.

BIOL 6380 (3). INTRODUCTION TO RESEARCH.

BIOL 6381 (3). INTRODUCTION TO RESEARCH.

BIOL 6398 (3). THESIS. Thesis in the biological sciences. Contact the department.
 form.

BIOL 6399 (3). THESIS. Thesis in the biological sciences. Contact the department.
 form.

BIOL 6403 (4). CONCEPTS IN MICROBIOLOGY. The biology of an
 organism, its life cycle, and its interactions with the
 environment.

BIOL 6460 (4). ENVIRONMENTAL AND HUMAN TOXICOLOGY WITH LAB. Includes
 environmental toxicology, human toxicology, and
 laboratory techniques.

BIOL 7000 (0). RESEARCH IN THE BIOLOGICAL SCIENCES. Research in the biological
 sciences. Contact the department.

BIOL 7315 (3). SELECTED TOPICS. Selected topics in the biological sciences. Contact the
 department.

BIOL 7316 (3). SELECTED TOPICS. Selected topics in the biological sciences. Contact the
 department.

BIOL 8049 (0). GRADUATE FULL-TIME STATUS. Graduate status.

BIOL 8398 (3). DISSERTATION. Dissertation. Ph.D. in the biological sciences. Contact
 the department.

BIOL 8399 (3). DISSERTATION. Dissertation. Ph.D. in the biological sciences. Contact
 the department.

BIOL 8698 (6). DISSERTATION. Dissertation. Ph.D. in the biological sciences. Contact
 the department.

BIOL 8699 (6). DISSERTATION. Dissertation. Ph.D. in the biological sciences. Contact
 the department.

BIOL 8998 (9). DISSERTATION. Dissertation. Ph.D. in the biological sciences. Contact
 the department.

BIOL 8999 (9). DISSERTATION. Dissertation. Ph.D. in the biological sciences. Contact
 the department.

CHEMISTRY

Professor Eli Kohn, Department Chair

Professors: Edward Bielecki, Dieter Cismaru, Herbert Efi

Kohn, Michael Lamm, Michael D. S. Pappas, Neil Assistant

Professors: Isaac Garcia-Bach, Abdel-Latif Taha, Nicholas

Binz, Professor of Practice: Jeffrey O'Brien Senior Lecturers: Andrea

Adams, Hee-Babbi

ADMISSION REQUIREMENTS

In addition to the requirements listed by the Office of Research and

Graduate Studies, applicants for a bachelor's degree in chemistry

must also take the GRE general test.

If English is the applicant's

language, he or she must have

TOEFL English proficiency

and a minimum score of 80 on

the test. The test score is valid for two

years from the date of

the test.

For more information, contact

B

CHEM 5311 (3). BIOLOGICAL CHEMISTRY: METABOLISM. ~~Introduction to the physical and biological chemistry of the cell and its organelles.~~

Prerequisites: CHEM 3371, 3372.

CHEM 5312 (3). PHYSICAL BIOCHEMISTRY. ~~Physical chemistry of biological systems.~~

Prerequisites:

MATH 1338; CHEM 3372, 5310. (CHEM 5381, 5383 included.)

CHEM 5317 (3). INTRODUCTION TO MOLECULAR MODELING AND COMPUTER-ASSISTED DRUG DESIGN. ~~Practical application of molecular modeling and computer-aided drug design to the design of drugs and drug receptors.~~

Prerequisites: CHEM 1303, 1304

of facilities. The set of
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be expected to be
higher research

CHEM 6110 (1). CHEMICAL COMMUNICATIONS: LITERATURE, WRITING, AND PRESENTATIONS. Focus on research, scientific writing, and research ethics.

CHEM 6111 (1). PRACTICAL LABORATORY METHODS. Describes the history and practice of laboratory methods used in chemical research.

CHEM 6112 (1). ADVANCED STEREOCHEMISTRY. Advanced stereochemistry and the relationship between structure and function.

CHEM 6113 (1). PRACTICAL ASPECTS OF SPECTROSCOPY. Basic practical aspects of spectroscopy.

CHEM 6114 (1). CHEMICAL KINETICS. Kinetics of gas-phase, condensed-phase, and surface reactions.

CHEM 6115 (1). THEORY OF THE CHEMICAL BONDS. Covalent, ionic, and metallic bonding and the relationship between structure and properties.

CHEM 6116 (1). INTRODUCTION TO BIOORGANIC AND MEDICINAL CHEMISTRY. Principles of bioorganic and medicinal chemistry, drug design, and drug metabolism.

CHEM 6117 (1). CHEMICAL PERIODICITY. Reaction trends and periodicity in the periodic table and the relationship between structure and chemical behavior.

CHEM 6118 (1). OVERVIEW OF MATERIALS CHEMISTRY.

hard a palation
molecules by scale pairs

trigonal
methyl groups

techniques of defined

CHEM 6341 (3). ADVANCED MODELS AND CONCEPTS IN CHEMISTRY. Advanced models and concepts in the field of organic chemistry.

CHEM 6342 (3). NANOTECHNOLOGY: FUNDAMENTALS AND APPLICATIONS. Nanotechnology in the field of medicine. The course covers the fundamentals of nanotechnology.

CHEM 6343 (3). ADVANCED COMPUTATIONAL CHEMISTRY. Principles of computational chemistry. The course covers the fundamentals of computational chemistry.

CHEM 6344 (3). COMPUTER-ASSISTED DRUG DESIGN, FUNDAMENTALS, AND APPLICATION. The course covers the fundamentals of computer-aided drug design.

CHEM 6351 (3). METHODS AND TECHNIQUES OF RESEARCH. The course covers the fundamentals of research methods and techniques.

CHEM 6352 (3). METHODS AND TECHNIQUES OF RESEARCH. The course covers the fundamentals of research methods and techniques.

CHEM 6397 (3). BIOTRANSFORMATION AND BIOCATALYSIS. This course covers the fundamentals of biotransformation and biocatalysis.

CHEM 6398 (3). THESIS. The student will conduct research in the field of chemistry.

CHEM 6399 (3). THESIS. The student will conduct research in the field of chemistry.

CHEM 7101 (1). INDEPENDENT STUDY. Reading and research in the field of chemistry.

CHEM 7108 (1). SPECIAL TOPICS. Presentation of special topics in chemistry.

CHEM 7111 (1). TEACHING PRACTICUM I. The student will gain experience in teaching chemistry.

CHEM 7112 (1). TEACHING PRACTICUM II. The student will gain experience in teaching chemistry.
Prerequisite: CHEM 7111.

CHEM 7121 (1). DEPARTMENTAL PRESENTATION. The departmental presentation is a required activity for all graduate students in the department.

CHEM 7122 (1). MEETING PRESENTATION. The departmental presentation is a required activity for all graduate students in the department. Prerequisites: CHEM 6110, 7121.

CHEM 7151 (1). RESEARCH. Laboratory research.

CHEM 7201 (2). ADVANCED INDEPENDENT STUDY. Reading in the chemical literature. Prerequisite: CHEM 7121.

CHEM 7208 (2). SPECIAL TOPICS. Presentation of research results.

CHEM 7233 (2). RESEARCH SYNOPSIS AND OBJECTIVES. The departmental presentation is a required activity for all graduate students in the department. Prerequisite: CHEM 6110/6119, CHEM 7191 or higher CHEM 7121.

CHEM 7251 (2). RESEARCH. Laboratory research.

CHEM 7301 (3). ADVANCED INDEPENDENT STUDY. Reading in the chemical literature. Prerequisite: CHEM 7121.

CHEM 7308 (3). SPECIAL TOPICS. Presentation of research results.

CHEM 7334 (3). PROPOSAL METHODOLOGY. The departmental presentation is a required activity for all graduate students in the department. Prerequisite: CHEM 6110/6119, CHEM 7121, CHEM 7233.

CHEM 7351 (3). RESEARCH. Laboratory research.

CHEM 8049 (0). GRADUATE FULL-TIME STATUS. Graduate full-time status is required for the Ph.D. degree.

CHEM 8698 (6). DISSERTATION.

CHEM 8699 (6). DISSERTATION.

EARTH SCIENCES

Roy M. Huffington Department of Earth Sciences

www.smu.edu/earthsciences

Professor Robert Gregg Department Chair

Professors: Robert Gregg, Bin Jacobs, Li Jacobs, Zhen Lu, Jim

Qin, Bin Spin, Neil Tab, John Waher, Cao, Yap

Associate

Professors: Heather DeSho, Mahew Hoch, Mañ Beake, Magain

Assistant Professor: Rita Egan

Research Assistant Professors: Alan

Lee, Lee Perr, Bin Qin, Chiper, Spin

GEOLOGY OR GEOPHYSICS ADMISSION REQUIREMENTS

The minimum grade in the Earth sciences
are required for admission to the graduate program at SMU. The candidate must have a minimum GRE grade of 1300.
It is recommended that the English language proficiency
exam be taken at the TOEFL English proficiency
exam.

MASTER OF SCIENCE IN GEOLOGY, GEOPHYSICS OR APPLIED GEOPHYSICS

Master of Science in Geology or Geophysics. To qualify for the M.S. degree in
geology or geophysics, the student

1. Successfully complete a minimum of 30 hours of graduate study in the department including graduate courses GEOL 5320, 6107, 6321 and either GEOL 6398, 6399.
2. Pass a general proficiency exam.

GEOL 5386 (3). GEOCHEMISTRY. A study of the chemical composition of rocks, minerals, and fluids, and the processes that control their composition. Topics include: igneous, sedimentary, and metamorphic rocks; mineralogy; and geochemical processes. Prerequisite: GEOL 3452.

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Prerequisite: GEOL 3452.

- GEOL 7305 (3). RESEARCH IN PALEONTOLOGY. Research project selected area of study
- GEOL 7306 (3). RESEARCH IN PALEONTOLOGY. Research project selected area of study
- GEOL 7309 (3). RESEARCH IN MINERALOGY AND PETROLOGY. Research project selected area of study
- GEOL 7310 (3). RESEARCH IN MINERALOGY AND PETROLOGY. Research project selected area of study
- GEOL 7313 (3). RESEARCH IN GEOPHYSICS. Research project selected area of study
- GEOL 7314 (3). RESEARCH IN GEOPHYSICS. Research project selected area of study
- GEOL 7315 (3). RESEARCH IN GEOCHEMISTRY. Research project selected area of study
- GEOL 7316 (3). RESEARCH IN GEOCHEMISTRY. Research project selected area of study
- GEOL 7317 (3). RESEARCH IN GEOMORPHOLOGY. Research project selected area of study
- GEOL 7350 (3). SEMINAR IN PALEONTOLOGY. Seminar project selected area of study
- GEOL 7351 (3). SEMINAR IN STRATIGRAPHY. Seminar project selected area of study
- GEOL 7352 (3). SEMINAR IN SEDIMENTOLOGY. Seminar project selected area of study
- GEOL 7353 (3). SEMINAR IN PETROLOGY. Seminar project selected area of study
- GEOL 7354 (3). SEMINAR IN GEOCHEMISTRY. Seminar project selected area of study
- GEOL 7355 (3). SEMINAR IN GEOPHYSICS. Seminar project selected area of study
- GEOL 7357 (3). SEMINAR IN STRUCTURAL GEOLOGY. Seminar project selected area of study
- GEOL 7358 (3). SEMINAR IN SEDIMENTOLOGY. Seminar project selected area of study
- GEOL 7359 (3). SEMINAR IN STRUCTURAL GEOLOGY. Seminar project selected area of study
- GEOL 7360 (3). SEMINAR IN GEOPHYSICS. Seminar project selected area of study
- GEOL 7370 (3). SEMINAR IN PALEONTOLOGY. Seminar project selected area of study
- GEOL 7380 (3). RESEARCH PROJECT IN APPLIED GEOPHYSICS. Graduate research

GEOL 8699 (6). DISSERTATION RESEARCH. Research and the distrib
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GEOL 8998 (9). DISSERTATION RESEARCH. Research and the distrib
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GEOL 8999 (9). DISSERTATION RESEARCH. Research and the distrib
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ECONOMICS

Professor Sam Py

English 101 (3 credits) and English 102 (3 credits) are required for all students. This program is designed to provide students with the skills and knowledge necessary to succeed in a variety of careers. The program is designed to be completed in two years.

All students must have a grade of C (2.000) or better in all courses. Students who do not meet this requirement will be required to repeat the course. Students who do not meet this requirement will be required to repeat the course.

Students who do not meet this requirement will be required to repeat the course. Students who do not meet this requirement will be required to repeat the course.

Core courses

ECO

Required courses

- ECO 5341 Strategic Behavior
- ECO 5350 International Trade
- ECO 5353 Labor Economics
- ECO 6352 Applied Econ Analysis
- ECO 6381 Econ Analysis I
- ECO 6383 New Approaches to Managerial Economics

Electives

- ECO 5337 Urban Economics
- ECO 5340 Decision Making Under Uncertainty
- ECO 5357 Economics of Human Resources
- ECO 5359 Microeconomic Development
- ECO 5360 Economic Development
- ECO 5361 Natural Resources and Energy Economics
- ECO 5362 Economic Growth
- ECO 5365 Public Policy and Business
- ECO 5370 Cost-Benefit Analysis
- ECO 5375 Economic Business Forecasting
- ECO 5380 Capital Economics
- ECO 6380 Predictive Analysis for Economic
- ECO 5390 Macroeconomic Finance
- ECO 6320 Applied Micro Theory and Policy
- ECO 6330 Exchange Rates and International Capital Markets
- ECO 6382 Econ Analysis II
- ECO 6390 Regional Economic Analysis

MASTER OF SCIENCE IN APPLIED ECONOMICS

AND 0 8.50018 Intermediate Applied Economics and Capital Markets (E8 Track)

Required business intelligence courses (2 from the following)

- ECO 5340 Decision Making Under Uncertainty
- ECO 5341 Strategic Behavior
- ECO 5370 Cost-Benefit Analysis
- ECO 6383 Management Economics

Required global perspective courses (1 from the following)

- ECO 6320 Applied Microeconomics Policy
- ECO 6330 Exchange Rates and International Capital Markets
- ECO 6331 International Trade
- ECO 6333 Trade Policy and World Trade System

Elective courses (4 from the following)

Applicants should be ready to take the first semester and global perspective

- ECO 5340 Decision Making Under Uncertainty
- ECO 5341 Strategic Behavior
- ECO 5370 Cost-Benefit Analysis
- ECO 5380 Capital Economics
- ECO 6352 Applied Economic Analysis
- ECO 6383 Management Economics
- ECO 6303 International
- ECO 6330 Exchange Rates and International Capital Markets
- ECO 6331 International Trade
- ECO 6333 Trade Policy and World Trade System
- STAT 5304 SAS Programming
- STAT 5340 Probability and Statistics for Engineers
- STAT 5371 Empirical Statistics
- STAT 6308 SAS II and Databases

DOCTOR OF PHILOSOPHY IN ECONOMICS

Admission Requirements

The minimum admission requirements are:

1. Minimum GPA of 3.000 (on a 4.000 scale).
2. Each candidate must take the GRE general test at the discretion of the graduate school.
3. A bachelor's degree in a related field. The graduate program is designed for students who have completed a bachelor's degree in a field related to economics. Applicants with degrees in other fields may be considered on a case-by-case basis.
4. Mathematics proficiency in multivariate calculus, linear algebra, and probability.
5. TOEFL English proficiency test score of 100 or higher. TOEFL scores are not required for students who have earned a degree from a U.S. degree-granting institution. The minimum TOEFL score is 100.

THE COURSES (ECO)

General	ECO 5301, 5337, 5340, 5341, 5350, 5353, 5355, 5357, 5359, 5360, 5361, 5362, 5365, 5370, 5375, 5380, 5385, 5390, 6352
Electives	ECO 6371, 6381, 6382, 6384, 6385, 6386, 6387, 6390, 6394, 6395, 6396, 7302
Advanced Electives	ECO 7305, 7306
International Electives	ECO 6330, 6331, 6333, 6339, 7332, 7333
International Development Electives	ECO 6337, 7334
Human Resources	ECO 7321, 7322
Emerging Markets	ECO 6372, 6374, 6375, 7075, 7275, 7377, 7378
Math Electives	ECO 6320, 7361, 7362
Global Organizations	ECO 7341, 7342
Public Finance	ECO 7351, 7352
Independent Studies and Work	ECO 6101, 6398, 7004, 7101, 7201, 7301, 7304, 8000, 8100, 8101, 8398, 8399, 8698, 8699, 8998, 8999

ECO 5101 (1). TOPICS. Topics vary. Prerequisites: C- or better in ECO 3301, 3302 and STAT 2301, 2331, and 2340.

ECO 5201 (2). TOPICS. Topics vary. Prerequisites: C- or better in ECO 3301, 3302 and STAT 2301, 2331, and 2340.

ECO 5301 (3). TOPICS. Topics vary. Prerequisites: C- or better in ECO 3301, 3302 and STAT 2301, 2331, and 2340.

ECO 5320 (3). HEALTH ECONOMICS. Analyze the economic impact of health care policies and how they have affected the health care industry in the United States. Prerequisite: C- or better in ECO 3301.

ECO 5340 (3). DECISION-MAKING UNDER UNCERTAINTY. Provides a basic understanding of decision-making under uncertainty. Prerequisites: C- or better in ECO 3301, 3302 and STAT 2301, 2331, and 2340.

ECO 5341 (3). STRATEGIC BEHAVIOR. Discusses the basic concepts of game theory and its applications. The topics are fixed by the instructor. Prerequisites: C- or better in ECO 3301 and STAT 2301, 2331, and 2340.

ECO 5342 (3). EXPERIMENTAL AND BEHAVIORAL ECONOMICS. Studies the behavioral economics which help explain the decision-making process. Prerequisite: C- or better in ECO 3301. Recommended: ECO 5341, 5350.

ECO 5350 (3). INTRODUCTORY ECONOMETRICS. The basic concepts and applications of regression analysis. Prerequisites: C- or better in MATH 1309 and 1337; ECO 3301; and ITOM 2305 and STAT 2301, 2331, and 2340.

ECO 5353 (3). LAW AND ECONOMICS.

Prerequisites: ~~Gadate saig 6- detine fly~~
for ECO 3301 and STAT 2301, 2331, 4340.

ECO 5357 (3). ECONOMICS OF HUMAN RESOURCES. ~~Examina bice to~~
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the analysis of the labor market, the impact of education, health, and the aging process on the labor force, and the impact of the labor force on the economy.

Prerequisites:

~~Gadate saig 6- detine fly~~ ECO 3301 and STAT 2301, 2331, 4340.
ECO 4351 is needed.

ECO 5359 (3). ECONOMIC DEVELOPMENT: MICROECONOMIC PERSPECTIVES. ~~A b-~~
~~cre xim b iac ias~~

describe the impact of the exchange rate on the balance of payments and the role of the central bank in managing the exchange rate. Prerequisite: 3.000 GPA in economics.

ECO 6320 (3). APPLIED MONETARY THEORY AND POLICY. Covers the balance of payments, the money market, and the role of the Federal Reserve in managing the money supply. Prerequisite: ECO 6330 and 7332.

ECO 6330 (3). INTERNATIONAL ECONOMIC AND FINANCIAL ENVIRONMENT. Topics include foreign exchange markets, balance of payments, international trade, and the role of international organizations such as the World Bank and the IMF. Prerequisite: ECO 6331 and 7332.

ECO 6331 (3). INTERNATIONAL TRADE. Studies the effects of trade on the economy and the role of international trade agreements. Prerequisite: ECO 6330 and 7332.

ECO 6333 (3). TRADE POLICY AND THE WORLD TRADING SYSTEM. Studies the role of trade policy in the world trading system and the impact of trade agreements such as the WTO. Prerequisite: ECO 6331 and 7332.

ECO 6337 (3). EMERGING MARKETS. Analyzes the economic and financial conditions of emerging markets and the role of international organizations such as the World Bank and the IMF. Prerequisite: ECO 6330 and 7332.

- ECO 6383 (3). NEW APPROACHES TO MANAGERIAL ECONOMICS. Prerequisite: ECO 6384.
- ECO 6384 (3). MICROECONOMIC THEORY I. Basic microeconomic theory and analysis. Prerequisite: ECO 6384.
- ECO 6385 (3). MICROECONOMIC THEORY II. Intermediate microeconomic theory. Prerequisite: ECO 6384.
- ECO 6386 (3). MICROECONOMIC THEORY III. The theory of the firm and the market. Prerequisite: ECO 6384, 6385.
- ECO 6387 (3). MICROECONOMIC THEORY IV. A survey of modern microeconomic theory. Prerequisite: ECO 6386.
- ECO 6390 (3). REGIONAL ECONOMICS. An introduction to regional economic theory and analysis. Prerequisite: ECO 6384.
- ECO 6394 (3). MACROECONOMIC THEORY I. Basic macroeconomic theory and analysis. Prerequisite: ECO 6384.
- ECO 6395 (3). MACROECONOMIC THEORY II.

ECO 7334 (3). DEVELOPMENT ECONOMICS. A part of the development economics course is devoted to the study of the role of the state in the development process. The course also covers the role of the state in the development process.

ECO 7341 (3). MARKET STRUCTURE. The course covers the theory of the firm and the theory of the market. The course also covers the theory of the market.

ECO 7342 (3). IMPERFECT MARKETS. The course covers the theory of the firm and the theory of the market. The course also covers the theory of the market.

ENGLISH

Professor David Car

Department Chair

Professors: Tracy David Car Thomas Pier Decker

Ez Green Daid Hays RSM Jim Neel Will Spiegel

Stevn Weisberger

Associate Professors: Ageh Ads Richad Bl

Geg Bulez, Michael Hhar Daid Ms Beh Neel In Ren

dab, Nim Schatz Lis

Singam Raj ar Sdan Bin Wheeler

Assistant

Professors: Tracy Cady James Sae-Sae Maha Saz

Professors

of Practice: Jan Aber Car Dacfi, Patia Pin Ageh Wd.

Senior

Lecturers: Dian Ghis Bchm Cal Michael J Co Vans Hp

Lecturers: Sepain Ash Mat

pr Park Lage, Bre Ley Tota

Hawl Pal Neel Kish Pr Om Seary Sar R Sh Li An

Sepev Vekt Gat.

DOCTOR OF PHILOSOPHY IN ENGLISH

Admission Requirements

Apply for the Ph.D. program

at the Graduate School

with a minimum GPA of 3.0. The minimum

GRE score is 1500. The minimum

GRE score is 1500. The minimum

GRE score is 1500. The minimum

GRE score is 1500. The minimum

GRE score is 1500. The minimum

GRE score is 1500.

Degree Requirements

The Ph.D. program requires 36 credit hours

in English, including English 6310

Advanced Literary Studies English 6311 Survey of

English Literature

English 6312 Teaching Practice

and a thesis. The thesis must be

defended and approved by the

committee. The thesis must be

defended and approved by the

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committee. The thesis must be

defended and approved by the

committee.

ENGL 6373 (3). HISPANIC-AMERICAN LITERATURE. Studies in Latin American literature and culture.

ENGL 6375 (3). SEX, GENDER, AND LITERATURE. Studies in the critical and gendered aspects of literature.

ENGL 6380 (3). HISTORY OF PRINT CULTURE. A historical survey of the printing industry in the United States and abroad.

ENGL 6391 (3). POETRY WRITING WORKSHOP. Graduate-level poetry writing workshop.

ENGL 6392 (3). FICTION WRITING WORKSHOP. Graduate-level fiction writing workshop.

ENGL 6394 (3). GRADUATE INDEPENDENT STUDY IN POETRY WRITING. Independent study in poetry writing.

ENGL 6395 (3). GRADUATE INDEPENDENT STUDY IN POETRY WRITING. Independent study in poetry writing.

ENGL 6396 (3). GRADUATE INDEPENDENT STUDY IN FICTION WRITING. Independent study in fiction writing.

ENGL 6397 (3). GRADUATE INDEPENDENT STUDY IN FICTION WRITING. Independent study in fiction writing.

ENGL 6398 (3). THESIS. Research for the M.A. thesis.

ENGL 6399 (3). THESIS. Research for the M.A. thesis.

ENGL 7311 (3). SEMINAR IN LITERARY THEORY. Advanced study in literary theory.

HISTORY

State and 30 credits in the 5000-6000 level
6000-level course in the program in the
area of the 3000-level general education
requirements. The 30 credits are listed below.

1.

high, he took the TOEFL English test
so 80 higher than a score of 100
he had failed Three times

ecologically sound and ethical. These are followed by
three courses that are foundational in the field of
Teaching and Learning. They are:

Ph.D. Research Paper Requirement. Students must
prepare a research paper based on a topic in the
field.

Qualifying Examination. An examination in the
field of Teaching and Learning.

Teaching Practicum. (credit) HIST 7000, a
teaching practicum in the field of Teaching and Learning.

Dissertation. (three credits) Upon completion of
the dissertation, students must defend their work.

Teacher Preparation. Learning the affective and
cognitive aspects of teaching and learning.

Ph.D. The core of the program is the HIST
7000, the field of Teaching and Learning.
The program is designed to provide students with
teaching and learning experiences. The program is
offered by SMU Center for Teaching and Learning.
Finally, students must complete a SMU
program.

THE COURSES (HIST)

HIST 5364 (3). THE CITY OF GOD IN ITS MILIEU. A study of the city of God in its historical and cultural context, including the influence of the Church and the state. Includes a study of the city of God in the Middle Ages and the Renaissance.

HIST 5367 (3). RUSSIA FROM THE KIEVAN ERA TO 1881. A study of the history of Russia from the Kievan era to 1881. Includes a study of the Kievan Rus, the Mongol invasion, the rise of the Muscovite state, and the reign of Peter the Great.

HIST 5370 (3). SEMINAR IN FRENCH HISTORY. A seminar in French history, focusing on the period from the Middle Ages to the French Revolution. Includes a study of the French Renaissance, the French Revolution, and the Napoleonic era.

HIST 5371 (3). THE FRENCH REVOLUTION AND NAPOLEON, 1789-1815. The French Revolution and Napoleon, 1789-1815. A study of the French Revolution and Napoleon, including the causes, the course, and the consequences of the Revolution and the Napoleonic era.

HIST 5374 (3). RECENT EUROPEAN HISTORY: 1918 TO THE PRESENT. A study of recent European history, from 1918 to the present. Includes a study of the First World War, the interwar period, the Second World War, and the Cold War.

HIST 5375 (3). EUROPE IN THE AGE OF LOUIS XIV. The Age of Louis XIV, 1643-1715. A study of Europe in the Age of Louis XIV, including the reign of Louis XIV, the French Revolution, and the Napoleonic era.

HIST 5376 (3). EUROPE AGE OF ENLIGHTENMENT, 1715-1789. A study of the Age of Enlightenment in Europe, from 1715 to 1789. Includes a study of the French Enlightenment, the French Revolution, and the Napoleonic era.

HIST 5377 (3). THE UNITED STATES AND THE COLD WAR. A study of the United States and the Cold War, from 1945 to the present. Includes a study of the Cold War, the Vietnam War, and the end of the Cold War.

HIST 5380 (3). AUGUSTUS AND THE ROMAN EMPIRE. A study of Augustus and the Roman Empire, from 27 BC to AD 14. Includes a study of the Roman Republic, the rise of Augustus, and the Roman Empire.

HIST 6304 (3). MODERN AMERICA, 1929–PRESENT. A reading course in the history of the Great Depression and the New Deal.

HIST 6305 (3). COLLOQUIUM: THE HISPANIC SOUTHWEST. This reading course deals with the history of the Southwest from the Spanish-Mexican period to the present.

HIST 6308 (3). SEMINAR IN AMERICAN HISTORY. A reading course in American history.

HIST 6309 (3). SEMINAR IN NORTH AMERICAN BORDERLANDS. Study of the history of the borderlands between the United States and Mexico.

HIST 6310 (3). SEMINAR ON THE AMERICAN WEST. Includes the history of the American West and its development.

HIST 6312 (3). SEMINAR ON NATIVE AMERICAN HISTORY. Includes the history of Native Americans in the United States.

HIST 6315 (3). GLOBAL/COMPARATIVE HISTORY. A reading course in research and analysis by region.

HIST 6316 (3). COMPARISONS OF WORLD-HISTORICAL BORDERLANDS. A comparative study of borderlands in history.

HIST 6317 (3). FRONTIERS OF SPANISH HISTORY, 218 B.C.—A.D. 1492. Includes the colonial history of Spain and the New World.

HIST 6321 (3). SEMINAR: GLOBAL/COMPARATIVE HISTORY. A reading course in global comparative history.

HIST 6322 (3). READINGS IN HISTORY. Directed reading of specific papers and books.

HIST 6323 (3). READINGS IN HISTORY. Directed reading of specific papers and books.

HIST 6325 (3). READINGS: NEW SPAIN AND MEXICO. A reading course in the history of New Spain and Mexico.

HIST 6353 (3). PROBLEMS IN THE HISTORY OF SPAIN AND PORTUGAL. Scial chd
and palherchactis the Iber in Pe in Rm the pst
HIST 6354 (3). PROBLEMS IN THE HISTORY OF SPAIN AND PORTUGAL. Scial chd
and palherchactis the Iber in Pe in Rm the pst OBL8(q)92n6

The Courses (MSDS)

MSDS 6110 (1). IMMERSION. ~~Amipere SMU Dahsapa (p~~
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MSDS 6306 (3). INTRODUCTION TO DATA SCIENCE. ~~Anditahdsen~~
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MSDS 6370 (3). STATISTICAL SAMPLING.

MASTER OF ARTS IN MEDIEVAL STUDIES

Associate Professor Bill Wheeler Director

The Courses

Dedman College Courses

ENGL 6320 Medieval Literature (credit) (high 1500)
 ENGL 6321, 6322 Reading Medieval Literature
 FREN 5320 Literary Periods (credit) (credit)
 FREN 5370 Seminar French Literature (credit) (credit)
 HIST 5364 C of G: Upper Christian
 HIST 5370 Seminar French History I (Public 461)
 HIST 5378 Medieval Resources
 HIST 6349, 6350 Problems Medieval History
 HIST 6352 Problems Spanish History
 HIST 6385 Problems History (credit)
 MDVL 5301, 5302, 5398, 5399 Independent Studies
 MDVL 6398, 6399 Thesis
 SPAN 5310 Spanish Literature Before 1700

Meadows School of the Arts Courses

ARHS 5320 Seminar Medieval Art (PTBA)
 ARHS 5322 Seminar Cinema
 ARHS 6320 Medieval Art and Architecture
 ARHS 6324 Art and Culture of Medieval Spain
 ARHS 6322 Islamic Art and Architecture
 ARHS 6323 Roman Art and Architecture
 ARHS 6324 Art and Culture of Medieval Spain
 ARHS 6325 The Gothic Cathedral
 ARHS 6328 Byzantine Art and Architecture
 ARHS 6399 The Jewish-Christian Dialogue and Texts
 MUHI 6309 Seminar Medieval and Renaissance Music Systems
 MUHI 6331 History of the Middle Ages
 MUHI 6362 Ancient and Medieval Music
 MUHI 6392 Directed Studies in History of the Middle Ages

Perkins School of Theology Courses

HX 7342 Past and Present
 HX 8308 Varieties of Medieval Theology
 HX 8321 History of Christianity
 HX 8357 Music in the Middle Ages
 HX 8359 Art and Culture of Medieval Spain
 HX 8387 Reading Spanish Music

Medieval Studies Courses (MDVL)

MDVL 5301 (3). INDEPENDENT STUDIES. Research and independent study in medieval history, literature, art, and culture.
 MDVL 5302 (3). INDEPENDENT STUDIES. Research and independent study in medieval history, literature, art, and culture.
 MDVL 5398 (3). INDEPENDENT STUDIES. Research and independent study in medieval history, literature, art, and culture.
 MDVL 5399 (3). INDEPENDENT STUDIES. Research and independent study in medieval history, literature, art, and culture.

MDVL 6049 (0). GRADUATE FULL-TIME STATUS. A ~~credit~~ ~~dep~~

MATHEMATICS

Professor ~~Abja~~ ~~Abces~~

Department Chair

Professors:

THE COURSES (MATH)

MATH 5331 (3). FUNCTIONS OF A COMPLEX VARIABLE. Complex functions, conformal mappings, Cauchy's Theorem, Laurent series and applications.
 Prerequisite: C- higher in MATH 3337.

MATH 5334 (3). INTRODUCTION TO PARTIAL DIFFERENTIAL EQUATIONS. Elementary partial differential equations, heat conduction, wave equation, Laplace's equation, separation of variables, Fourier series, Sturm-Liouville problem, Bessel functions.
 Prerequisite: C- higher in MATH 3337.

MATH 5353 (3). LINEAR ALGEBRA. Spectral theory, Hermitian, Jordan form, Frobenius normal form, applications in engineering and computer science.
 Prerequisite: C- better in MATH 3353.

MATH 6110 (1). MATHEMATICS RESEARCH. Independent research project in the field of mathematics.
 Prerequisite: ec time field

MATH 6210 (2). MATHEMATICS RESEARCH. Independent research project in the field of mathematics.
 Prerequisite: ec time field

MATH 6310 (3). MATHEMATICS RESEARCH. Independent research project in the field of mathematics.
 Prerequisite: ec time field

MATH 6311 (3). PERTURBATION METHODS. Singular perturbation methods, asymptotic expansions, boundary layer theory, WKB method.
 Prerequisite: MATH 2343. Recommended: MATH 5334.

MATH 6312 (3). ADVANCED ASYMPTOTIC AND PERTURBATION METHODS. Topics include the method of matched asymptotic expansions, integral representations, asymptotic expansions, and the method of steepest descent.
 Prerequisites: MATH 5334, 6311.

MATH 6313 (3). ASYMPTOTIC EXPANSIONS AND INTEGRAL TRANSFORMS. Fourier and Laplace transforms, asymptotic expansions, integral representations, asymptotic expansions, and the method of steepest descent.
 Prerequisite: MATH 5331.

MATH 6315 (3). NUMERICAL METHODS I. (C) -5.36(6) 1aJ20.98(3) 1y -5.36(6) (d)-11

partial differential equations

based on the first-order ODEs

Prerequisites: MATH 5334, 6324.

MATH 6360 (3). COMPUTATIONAL ELECTROMAGNETICS. Not a graduate course

applies spectral methods

to solve Maxwell's equations

in the time domain

using finite element methods

and fast Fourier transforms

Prerequisites:

EE 7330, MATH 5334

and proficiency in programming (e.g., FORTRAN)

MATH 6361 (3). FUNDAMENTALS OF MULTIPHASE FLOWS IN POROUS MEDIA. Fluid flow in porous media

is a topic of interest in many areas of science and engineering

including petroleum engineering, geophysics, and groundwater hydrology

Prerequisite:

MATH 5334

and a graduate course in porous media

MA 6362 (3). NUMERICAL RESERVOIR SIMULATION. Not a graduate course

applies numerical methods

to solve the partial differential equations governing fluid flow in porous media

Prerequisites: EE 7330, MATH 5334, and proficiency in programming (e.g., FORTRAN)

PHYSICS

Associate Professor ~~Thad~~ W. Car

Department Chair

Professors: ~~Thad~~ Car, ~~Rob~~ Kehe, ~~Fred~~ Olsky, ~~Paul~~ Spigo
Ye.

PHYS 5395 (3). INTRODUCTION TO ELEMENTARY PARTICLES. Modern concepts in high energy physics. Feynman diagrams and group theory. Prerequisite: PHYS 5383.

PHYS 5398 (3). APPLICATIONS OF QUANTUM MECHANICS. The harmonic oscillator, the hydrogen atom, and scattering. Prerequisite: PHYS 5382 or 5383.

PHYS 6049 (0). GRADUATE FULL-TIME STATUS. Graduate full-time.

PHYS 6321 (3). CLASSICAL MECHANICS. Topics include Lagrangian and Hamiltonian mechanics, rigid bodies, and special relativity. Prerequisite: PHYS 5382 or 5383.

PHYS 6335 (3). QUANTUM MECHANICS. Fundamentals of quantum mechanics. Prerequisite: PHYS 5382 or 5383.

PHYS 6336 (3). QUANTUM MECHANICS. Fundamentals of quantum mechanics. Prerequisite: PHYS 5382 or 5383.

PHYS 6338 (3). CONDENSED MATTER PHYSICS. Properties of solids. Prerequisite: PHYS 5337 or 5338.

PHYS 6341 (3). NUCLEAR PHYSICS. General properties of nuclei, nuclear decay, nuclear reactions, and nuclear energy. Prerequisite: PHYS 6335 or 6336.

PHYS 6351 (3). STATISTICAL MECHANICS. Derivation of thermodynamic relations. Prerequisite: PHYS 3374 or 3375.

PHYS 6361 (3). SELECTED TOPICS. Selected topics in physics.

PHYS 6398 (3). THESIS. Research and writing in physics.

PHYS 6399 (3). THESIS. Research and writing in physics.

PHYS 7170 (1). CURRENT TOPICS IN PHYSICS. Seminars in physics.

PHYS 7305 (3). METHODS OF THEORETICAL PHYSICS. Mathematical methods in physics. Prerequisites: WJ 301 and 302.

PHYS 7311 (3). ELECTROMAGNETIC THEORY. Radiation and wave phenomena. Prerequisite: PHYS 5382 or 5383.

Required Courses. The first (45 hrs) are reqd:

PSYC 6091–6098 Integrated Practicum

PSYC 6305, 6307 Quant Methods, II

PSYC 6311 Organizational Psychology (3 hrs)

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PSYC 6330 (3). SEMINAR IN PSYCHOPHARMACOLOGY. Itce p h d g a d
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PSYC 6331 (3). PSYCHOTHERAPY PRACTICUM I. Chind didact/lecti an h m p
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an bief p h b e n f o n dical p t i e B a l l p T a n U n

PSYC 6332 (3). PSYCHOTHERAPY PRACTICUM II. Chit h e s c r i t e f i n a
chind didact/lecti an h m p a c t u p i e f o s e d - y a r g a d a t
desE p a i p c e d a s e t o

RELIGIOUS STUDIES

Professor Catherine E. Johnson

Department Chair

Professors: William D. Inge, Malcolm Charles

John E. Sege, Fred

Associate Professors: Richard C. G. Johnson, J. DeTenn, Kathleen C. Engel, John

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THE COURSES

Perkins School of Theology Courses

Course descriptions can be found in the Perkins School of Theology catalog.

BB 8345 Scip and Chis Ethics

GR 7301 Grek Egis

HB 7302 Hebr Egis

HR 8331 Wen Wb Regis

HR 8341

OT 8351 Major Missions of the Church
ST 8311 Church History
ST 8318 The Pentecost and the Holy Spirit
ST

- RELI 7306 (3). PHILOSOPHY OF RELIGION VII. Special by religion
- RELI 7307 (3). PHILOSOPHY OF RELIGION VIII. Special by religion
- RELI 7308 (3). PHILOSOPHY OF RELIGION IX. Special by religion
- RELI 7309 (3). PHILOSOPHY OF RELIGION X. Special by religion
- RELI 7310 (3). PHILOSOPHICAL THEOLOGY I. Special by religion
- RELI 7311 (3). PHILOSOPHICAL THEOLOGY II.

RELI 8049 (0). GRADUATE FULL-TIME STATUS. Indicates that the student is a full-time graduate student.

RELI 8100 (1). RESEARCH. Distinction in research.

RELI 8105 (1). RESEARCH.

RELI 8300 (3). STUDIES ON THE HISTORY OF DOCTRINE. A study examining the basic doctrinal positions of the early church fathers, including the Apostles, the Councils, and the early church fathers. Includes the history of the doctrine of the Trinity, the Incarnation, and the Atonement. Includes the history of the doctrine of the Holy Spirit, the Church, and the Kingdom of God. Includes the history of the doctrine of the Last Things.

RELI 8301 (3). STUDIES ON THE HISTORY OF DOCTRINE. A study examining the basic doctrinal positions of the early church fathers, including the Apostles, the Councils, and the early church fathers. Includes the history of the doctrine of the Trinity, the Incarnation, and the Atonement. Includes the history of the doctrine of the Holy Spirit, the Church, and the Kingdom of God. Includes the history of the doctrine of the Last Things.

RELI 8320 (3). ADVANCED SYSTEMATIC THEOLOGY. An advanced systematic theology course covering the major branches of Christian theology.

RELI 8321 (3). ADVANCED SYSTEMATIC THEOLOGY. An advanced systematic theology course covering the major branches of Christian theology.

RELI 8340 (3). PENTATEUCH. Introduction to the study of the Pentateuch (the first five books of the Bible). Includes the history of the Pentateuch, the literary and historical background, and the theological themes.

RELI 8341 (3). PENTATEUCH. Introduction to the study of the Pentateuch (the first five books of the Bible). Includes the history of the Pentateuch, the literary and historical background, and the theological themes.

RELI 8342 (3). THE PROPHETS. Introduction to the study of the prophetic books of the Bible. Includes the history of the prophets, the literary and historical background, and the theological themes.

RELI 8350 (3). SEMINAR ON THE NEW TESTAMENT. A study of the New Testament, including the history, literary and historical background, and the theological themes.

RELI 8351 (3). SEMINAR ON THE NEW TESTAMENT. A study of the New Testament, including the history, literary and historical background, and the theological themes.

RELI 8352 (3). NEW TESTAMENT GOSPELS. Introduction to the study of the Gospels of the New Testament. Includes the history of the Gospels, the literary and historical background, and the theological themes.

RELI 8352 (3) NEW TESTAMENT GOSPELS. Introduction to the study of the Gospels of the New Testament. Includes the history of the Gospels, the literary and historical background, and the theological themes. (0 TD-.0013-.0-3.8(8)(TJ/TT Tc-.0938 T)B-.0-3.85S1(g) and 3.2b3

STATISTICAL SCIENCE

Professor Wang W. Daniel,

Department Chair

Professors: Ronald B. Berkey, Richard G. Casella,

John H. J. van der Vaart, Li Peng,

Shoufan Wang, Wang W. Daniel,

Associate Professors: Jiguo Cao, Jianhua

Min, McGee,

Assistant Professor: Cheng Peng,

Senior Lecturers: Ahn

El-Sherpieny, Robert

Lecturer: Bin Sander

The Department of Statistical Science offers the following degree p

grams: the Ph.D. in Statistics, the Ph.D. in Biostatistics and the M.S. in

Applied Statistics and Data Analysis. The course Ph.D. in Biostatistics

is a joint program with the Department of Biostatistics at the University of

California, San Diego. The Department also offers a

M.S. in ~~and data analysis~~ degree in ~~garbage~~ he B.S.
degree. The ~~the~~

STAT 5373.

Prerequisite:

STAT 5375 (3). ECONOMIC AND BUSINESS FORECASTING. This course covers the theory and practice of forecasting. Topics include time series analysis, regression, and econometric models. Prerequisites: STAT 2301, 2331, 4340; MATH 2305.

STAT 5377 (3). STATISTICAL DESIGN AND ANALYSIS OF EXPERIMENTS. This course covers the theory and practice of experimental design and analysis. Topics include factorial designs, randomized controlled trials, and regression analysis. Prerequisite: STAT 4340, 5371.

STAT 5380 (3). DATA MINING TECHNIQUES FOR ECONOMISTS. A course covering the theory and practice of data mining techniques for economists. Topics include regression, classification, and clustering. Prerequisite: STAT 5371.

STAT 6342 (3). ADVANCED STATISTICAL QUALITY CONTROL. Includes statistical methods for process control and acceptance sampling. Prerequisite: STAT 4340/CSE 4340, STAT 5340/CSE 5370, STAT 5371; corequisite: STAT 6327, 6336.

STAT 6345 (3). LINEAR REGRESSION. The theory and application of linear regression. Prerequisites: STAT 6320, 6337.

STAT 6346 (3). ADVANCED REGRESSION ANALYSIS. Advanced regression techniques. Prerequisite: STAT 6345.

STAT 6347 (3). SPLINE APPROXIMATION IN STATISTICS.

STAT 6350 (3). ANALYSIS OF LIFETIME DATA. Statistical methods for analyzing lifetime data. Prerequisite: STAT 6304, 6327, 6328, 6336, 6337, 6338.

STAT 6355 (3). APPLIED MULTIVARIATE ANALYSIS. Statistical methods for analyzing multivariate data. Prerequisites: STAT 6337, 6320.

STAT 6358 (3). TOPICS IN BIOSTATISTICS. Topics in biostatistics. Prerequisite: STAT 6337, 6320.

- STAT 6370 (3). STOCHASTIC PROCESS. Random Markov Processes. Prerequisite: Analysis (e.g., STAT 6370/CSE 6370, STAT 6376, 6379, EE 5306).
- STAT 6375 (3). SEQUENTIAL ANALYSIS. Statistical Inference. Prerequisite: STAT 6328.
- STAT 6376 (3). STOCHASTIC PROCESS. Random Markov Processes. Prerequisite: STAT 6327.
- STAT 6377 (3). MULTIVARIATE CATEGORICAL DATA. Statistical Data. Prerequisites: STAT 6328, 6337.
- STAT 6378 (3). MULTIVARIATE ANALYSIS. Regression, Discriminant Analysis, MANOVA, and Hotelling's T^2 . Prerequisites: STAT 6320, and 6328 or 6381.
- STAT 6379 (3). INTRODUCTION TO MARKOV PROCESSES. Background in Probability and Stochastic Processes. Prerequisite: STAT 6327 or 6370/CSE 6370.
- STAT 6380 (3). MATHEMATICAL THEORY OF SAMPLING. Theoretical Foundations. Prerequisite: STAT 6328.
- STAT 6381 (3). THEORY OF LINEAR MODELS I. The General Linear Model. Prerequisites: STAT 6328, 6337, and 6320.
- STAT 6382 (3). THEORY OF LINEAR MODELS II. Variance-Covariance Structures. Prerequisite: STAT 6381.
- STAT 6385 (3). SURVEY OF NONPARAMETRIC STATISTICS. Topics in

STAT 7011 (0). SUPERVISED INTERNSHIP. Spise epiere inis alch
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STAT 7013 (0). SUPERVISED INTERNSHIP. Spise epiere inis alch
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STAT 7111 (1). SEMINAR IN STATISTICAL LITERATURE. Reppissal
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STAT 7112 (1). SEMINAR IN STATISTICAL LITERATURE. Reppissal
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STAT 7300 (3). SEMINAR. Onlpstifis alberta

STAT 7327 (3). ADVANCED STATISTICAL INFERENCE. Geonit al fere; es
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hisd, ipret.). Prerequisite: STAT 6371.

STAT 7328 (3). ADVANCED STATISTICAL INFERENCE. Addipissal
fere. Prerequisite: STAT 7327.

STAT 7362 (3). TOPICS IN STATISTICS. Lectand radipst-fhe-atal
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STAT 7363 (3). TIME SERIES ANALYSIS II. Fadred gadat de hant b
de each ipcland nae a m h rhdies Prerequisites: STAT
6363, 6376 ipst

STAT 8049 (0). GRADUATE FULL-TIME STATUS. Elnisice feshate
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STAT 8105 (1). RESEARCH.

STAT 8196 (1). DISSERTATION. Dnresearch nts calhep rhdby

STAT 8197 (1). DISSERTATION. Dnresearch nts calhep rhdby

STAT 8198 (1). DISSERTATION. Dnresearch nts calhep rhdby

STAT 8199 (1). DISSERTATION. Dnresearch nts calhep rhdby

STAT 8313 (3). RESEARCH IN STATISTICAL INFERENCE. Research ntsalhep
an rhdby

STAT 8396 (3). DISSERTATION. Dnresearch nts calhep rhdby

STAT 8397 (3). DISSERTATION. Dnresearch nts calhep rhdby

STAT 8398 (3). DISSERTATION. Dnresearch nts calhep rhdby

STAT 8399cal theory and methodology.

FINANCIAL INFORMATION

TUITION, FEES AND LIVING EXPENSES

A copy of the Financial Information Bulletin, issued each academic year, is available for reference from SMU Finance. This bulletin also provides information on the various fees and expenses. The bulletin can be accessed at [www.tbar](#) (Financial Bulletin).

PAYMENT PLAN OPTIONS
SMU Monthly Payment Plan

The SMU Tuition Payment Plan is a financing option that allows students to pay for their tuition in 12 monthly installments. The plan is available to students who are currently enrolled in a degree program at SMU. For more information, visit www.smu.edu/financial-aid/payment-plans.

GRADUATE RESIDENCE ACCOMMODATIONS

The Department of Residence Life and Student Housing

Transcript Service

A transcript is a copy of the academic record maintained by the Registrar's Office. The transcript is a legal document, and is designed, designed, designed, and a copy of the transcript is accepted. Official transcripts are accepted by the Registrar's Office for all high schools and colleges. The transcript is a legal document, and is designed, designed, designed, and a copy of the transcript is accepted. Official transcripts are accepted by the Registrar's Office for all high schools and colleges.

Transcripts are \$12.25 per transcript. Additional transcripts to be sent are \$3.50. Additional transcripts to be sent are \$12.25 a copy. PDF transcripts are \$16.00 per transcript. Transcripts are available by mail or by electronic delivery. Transcripts are available by mail or by electronic delivery. Transcripts are available by mail or by electronic delivery.

Final Examinations

Final examinations shall be given at the discretion of the faculty, and shall be administered in accordance with the policies and procedures established by the Board of Trustees. The faculty shall determine the content, format, and timing of the examinations, and shall be responsible for the grading and reporting of the results. The Office of the Registrar shall maintain the records of the examinations and shall provide the necessary administrative support.

Academic Grievance and Appeals Procedures for Students With Disabilities

final term of the year ending 31st March 2014.

Each fall is an estimate of the amount of the fall for the year ending 31st March 2014. The amount of the fall for the year ending 31st March 2014 is the amount of the fall for the year ending 31st March 2014.

Each fall is an estimate of the amount of the fall for the year ending 31st March 2014. The amount of the fall for the year ending 31st March 2014 is the amount of the fall for the year ending 31st March 2014.

Schedule Changes

The deadline for the submission of the schedule changes is 31st March 2014. The deadline for the submission of the schedule changes is 31st March 2014. ([www.irs.gov](#))

Withdrawal From the University

Please refer to the University of the Financial

Information Bulletin

Financial Information Bulletin, which

can be accessed at

[www/bsr](#)

(Financial Bulletin)

On/ direct to the Office of the SMU Right to

Web page to obtain specific information

to the financial aid

Students are aware of the difference between

drop and a withdrawal and

that they have different deadlines for financial aid

The deadlines are provided each term in the Official University Calendar at

[www/register](#)

. A drop occurs when a student

has not finished a course in a semester and

and a withdrawal occurs when a student

has completed a course in a semester

and the student has not finished

prior to the first day of

the term, he/she is considered a

cancellation and is not eligible for

financial aid

A student who withdraws

from the University

before the end of a

semester is considered a

Partial Withdrawal

and is eligible for

financial aid. The student

must file a withdrawal form with the

Registrar's Office

The effective date of the withdrawal

is the date which the student

Withdrawal is processed in the

Registrar's Office. Distances courses are

not included in the

financial aid withdrawal

The student must withdraw before the fifth day of the

semester in the Official University Calendar to be eligible for

financial aid. The student must

pay the student fees. Addi-

tional information is

Financial

Information Bulletin, which can be accessed at

[www/bsr](#)

(Financial Bulletin A)

and before the fifth day of

the semester. Withdrawal from a course

Medical withdrawal and withdrawal for

financial aid fees are not applicable to

for the 1980s. Sect 108 of the Education Act 1944
Applies to the period before the 1944 Act is in force at
<http://doe.gov.uk/education>.

EAB 8.05 Partial Refunds. A student who has been
granted a refund under EAB 8.03 (1) has a right to a
60 per cent refund of the amount paid for the course,
including the amount paid for the course, if the student
has not completed the course, or if the student has
completed the course but has not obtained a pass grade
of at least a C grade.

- (1) Part of the refund is determined as follows:

Interpretation of Course Numbers

Each SMU course number has four digits. The first two digits indicate the general area of the course.

1000	1999	Fall	year
2000	2999	Spring	
3000	3999	Junior	
4000	4999	Senior	

Grade of F, D or W

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accept, a grade ~~f~~ ~~five~~ ~~gr~~ ~~A~~ ~~fresh~~ ~~a~~ ~~grade,~~ ~~ced~~ ~~ing~~ ~~be~~ ~~bt~~ ~~ed~~ ~~to~~
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The grade ~~f~~ ~~W~~

Grade Changes

Changes in grade level are made by the academic chair, in consultation with the dean, and are based on the student's academic performance.

ACADEMIC ADVISING AND SATISFACTORY PROGRESS POLICIES

Academic Advising

From effective advising relationships to the procedures

Definitions: Academic Probation, Academic Suspension, Academic Reinstatement and Academic Dismissal

Academic Probation. Academic probation is the status assigned to a student who has failed one or more courses during a semester. A student on probation must maintain a minimum cumulative GPA of 2.0 during the probation period. If a student's cumulative GPA falls below 2.0 during the probation period, the student will be placed on suspension.

Academic Suspension. Academic suspension is the status assigned to a student who has failed two or more courses during a semester. A student on suspension is not allowed to attend classes or receive credit for any courses during the suspension period. A student may appeal a suspension decision.

The student on suspension must wait one semester before being allowed to re-enroll in classes. While on suspension, the student must maintain a minimum cumulative GPA of 2.0. Students who are suspended may be eligible for readmission after one semester.

Students on suspension may be eligible for a tuition waiver. A grade of "F" or "W" on a course during the suspension period will not count toward the student's cumulative GPA.

Academic Reinstatement. A student who has been suspended may apply for reinstatement. If approved, the student must meet the following conditions: maintain a minimum cumulative GPA of 2.0 during the first semester of enrollment; complete all courses required for the degree; and demonstrate financial need.

Academic Dismissal. A student who has been suspended for two consecutive semesters will be dismissed from the University. A student who has been dismissed may apply for readmission after two years.

Academic Petitions and Waivers

Students may petition for a waiver of academic probation or suspension. Petitions should be submitted to the Office of Academic Standards and Review. Waivers are granted on a case-by-case basis.

Transfer Coursework

Students transferring from another institution must have their coursework evaluated by the Office of Academic Standards and Review. Credit for transfer coursework is determined on a course-by-course basis.

GRADUATION POLICIES

Apply to Graduate

Students must apply for graduation by the deadline. Applications should be submitted to the Office of Academic Standards and Review. Students who are on probation or suspension must meet the minimum GPA requirements to be eligible for graduation.

Students who are on probation or suspension must complete all required coursework and maintain the minimum GPA requirements. Students who are on suspension must wait one semester before being allowed to re-enroll in classes. Students who are dismissed must wait two years before being allowed to re-enroll in classes.

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back to SMU as a result of the University
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OFFICE OF INFORMATION TECHNOLOGY

The Office of Information

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UNIVERSITY ACADEMIC PROGRAMS

ENGLISH AS A SECOND LANGUAGE PROGRAM

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DrJanE. Qink ORAU cdfSMU (214-768-4345), MinE. Chajm
n ORAU cdf scry(423-576-3306), cthe ORAU vbi at
[www](#).

CONTINUING AND PROFESSIONAL EDUCATION

The Office of Continuing and Professional Education
addresses all subject areas for the cm

Education

credits

the Office of Student Services
a fee for a transcript

cash or check

To request a transcript, you must first be a current student. You must also be in good academic standing. You must request a transcript at least 10 business days before the date you need it. You must pay the fee for a transcript.

the cost of a transcript is \$10.00 per transcript.

High school students who are currently attending SMU can request a transcript for their high school. SMU has a transcript request form that you can use to request a transcript. You can find the form at www.smu.edu/StudentAffairs/StudentLife/StudentHandbook.

SMU Student Handbook, which is available at www.smu.edu/StudentAffairs/StudentLife/StudentHandbook.

Housing

The Department of Residence Life and Student Housing provides a variety of housing options for students. The department offers on-campus housing, off-campus housing, and shared housing. The department also provides information on housing for students with disabilities. This information is available on the department's website at www.smu.edu/residence-life.

Hegi Family Career Development Center

www.smu.edu/career

The Hegi Family Career Development Center provides a variety of career development services for students. The center offers career counseling, career assessment, and career exploration. The center also provides information on career opportunities and internships. This information is available on the center's website at www.smu.edu/career.

Career Counseling. SMU offers a variety of career counseling services. These services include one-on-one counseling, group counseling, and self-assessment. Career counseling is available to all students. You can find more information about career counseling at www.smu.edu/career.

On-Demand Advising. The Career Center offers on-demand advising services. These services are available to all students. You can find more information about on-demand advising at www.smu.edu/career.

MustangTrak. The Career Center offers MustangTrak, a career exploration tool. MustangTrak is available to all students. You can find more information about MustangTrak at www.smu.edu/career.

Career Fair. The Career Center offers a career fair. The career fair is held each year. You can find more information about the career fair at www.smu.edu/career.

garden fit. Student activities are vibrant and active.

SMU Connection. SMU Connection is a partnership between SMU Office of Career and Professional Development and the Hagi Family Career Development Center. The center has a fine dining facility, ever changing banquet hall, and a state-of-the-art fitness center. SMU Connection offers a variety of programs and services to help students prepare for the workforce. SMU Connection offers a variety of programs and services to help students prepare for the workforce.

Career Events and Workshops. Special events are held throughout the year. Events include Speed Networking, Career Fairs, and Career Panels. These events are designed to help students explore career options and connect with professionals in their field.

Career Development Ambassadors.

Student Media

The Student Media Office is a SMU initiative that provides a platform for students to express their opinions and concerns. The office is responsible for the production and distribution of the Daily Campus, SMU's student newspaper, and SMU-TV, the student television station. The office also manages the SMU website and the SMU YouTube channel. The office is located in the Rotunda (1000 W. 15th St., Suite 1000) and is open to all students. The office was established in 1915.

Veterans Services

The Veterans Services Office is a confidential office that provides support and assistance to students who are veterans or the dependents of veterans. The office is located in the Rotunda (1000 W. 15th St., Suite 1000) and is open to all students. The office was established in 1915.

d. In each case, state the effect of the proposed legislation.
Effect: Jan. 1, 2012, Texas law

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8. Student Appeals and Complaints

Shen Mehdi University is dedicated to providing a high quality education for its students. We are committed to ensuring that all students have the opportunity to succeed and to providing a safe and supportive learning environment. If you have any concerns or complaints regarding your academic or administrative experience, please contact the appropriate office. We will work to resolve your concerns as quickly and effectively as possible.

ADMINISTRATION AND FACULTY

ADMINISTRATION

Corporate Officers of the University

R. Gene Ter	President
Thomas E. Bay	Vice President for Executive Affairs
Brad E. Chews	Vice President for Development and External Affairs
Michael A. Con	Chief Investment Officer and Treasurer
Hal W. Saly	Provost ad interim and Vice President for Academic Affairs ad interim
Chris Regis	Vice President for Business and Finance
Jan Vogel	Vice President for Student Affairs ad interim
Paul J. Wad	Vice President for Legal Affairs and Government Relations, General Counsel and Secretary

Academic Deans

Dail J. Chad	Leon Simmons Endowed Dean of Annette Caldwell Simmons School of Education and Human Development
Mar P. Chis	Dean of Bobby B. Lyle School of Engineering
Jeff M. Cla	Judge James Noel Dean of Dedman School of Law
Sarah S. Hibi	Algur H. Meadows Dean of Algur H. Meadows School of the Arts
William B. Lawre	Dean of Joe and Lois Perkins School of Theology
Glen M. McClos	

Office of the Vice President for Business and Finance

DEDMAN COLLEGE OF HUMANITIES AND SCIENCES

Office of the Academic Dean

Thomas DiPiero,

Oga L.V. Cbet

Dedman College Faculty (continued)

Victor Farris Lecturer of Political Science, Ph.D., SUNY (Albany)
Sam Fernandez Senior Lecturer of Spanish, Ph.D., Complutense de Madrid
Keith Fetscher Senior Lecturer of Japanese, M.A.T., Schulich School of Business (York)
Daryl Fisher Lecturer of ESL, M.A., Texas A&M (Albany)
John Fisher Associate Professor of Philosophy, Ph.D., Auburn
Marie-Francoise Fournier Assistant Professor of French, Ph.D., Michigan
Nel Foy Robert H. and Nancy Dedman Professor of History, Ph.D., Michigan
Thomas B. Foy Professor of Economics, Ph.D., Michigan
Debra A. Fox

Dedman College Faculty (continued)

Jared Lak, Assistant Professor of Economics, Ph.D., **Johanna**
John C. Lamm Associate Professor of Religious Studies, Ph.D., **Dia**
Shir Lader Professor of Practice of Jewish Studies, Jewish Studies Director, Ph.D.,
Pelja
Paul Lage, Senior Lecturer of English, M.A., SMU
Michael Lamm Professor of Chemistry, Ph.D., **Cynthia New**
Bay Lee, Associate Professor of Mathematics, Ph.D., **Chdo**
Verónica León Senior Lecturer of Spanish, Ph.D., **Texs**
Ahm Lester Research Assistant Professor of Earth Sciences, M.A., **Vigin Tech**
Bre Ley Senior Lecturer of English, Ph.D., **Bw**
Ann E. Linn Associate Professor of Sociology, Ph.D., **Wahig Sat**
Scott E. Linn Associate Professor of Religious Studies, Ph.D., **Texs**
Abdel Lipt Assistant Professor of Chemistry, Ph.D., **Pelja**
Chuan Liu Research Assistant Professor of Physics, M.S., **Texs (Alb)**

Dedman College Faculty (continued)

Alia E. Merritt Associate Professor of Psychology, Ph.D., **Habersham**
Daniel Miller Professor of Economics, Ph.D., **Baylor**
Luis Molina Professor of Practice of Spanish, Ph.D., **Texas Tech**
Peter Moore Professor of Mathematics, Ph.D., **Reiner Po** **Technische**
Facundo Mora Professor of Spanish, Ph.D., **Georgetown**
Agne M. Nolasca Lecturer of Spanish, M.A., **Madison**
Sheila

Dedman College Faculty (continued)

Wei Qu Professor of Practice of Chinese, M.A., Beijing Normal University
Jan E. Quirk Professor of Earth Sciences, Ph.D., California Institute of Technology
Bin Qin Research Assistant Professor of Earth Sciences, B.S., Harbin Institute of Technology
Soham Radhakrishnan Research Associate Professor of Biological Sciences, Ph.D., University of Michigan (Ann Arbor)
Patricia Ramirez Professor of Practice of Latin, M.A., Texas A&M University
Daphne A. Reinert Professor of Mathematics, Ph.D., California Institute of Technology
Danielle Reiss Associate Professor of Mathematics, Ph.D., Rice University
Heidi Reiss Senior Lecturer of Economics, Ph.D., SMU
Robert Righer Research Professor of History, Ph.D., California State University, San Bernardino
Thomas Ritz Professor of Psychology, Ph.D., Harvard University
Stephen Roberts Senior Lecturer of Statistical Science, Ph.D., SMU
Linda Rubin Associate Professor of Philosophy, Ph.D., California State University, San Diego
Cheryl R. Ross Associate Professor of Anthropology, Ph.D., Arizona State University
Theresa Roubal, Associate Professor of English, Ph.D., Northern Illinois University

Dedman College Faculty (continued)

- Cher P. Sign** Research Assistant Professor of Earth Sciences, B.S., Texas (Dah)
- Li Singan** Associate Professor of English, Ph.D., Jordan
- Sara Sign** Lecturer of English, M.A., SMU
- Sheyl. Sign** University Distinguished Professor of History, Ph.D., Washington
- Carl Sign** Associate Professor of Anthropology, Health and Society Program Director, Ph.D., Arizona
- Dail Y. Sign** Professor of Chemistry, Ph.D., Massachusetts Tech
- Whid Lee Spgeh** Professor of English, Duwain E. Hughes, Jr. Distinguished Chair for English, Ph.D., Hawaii
- Hab Saly** Professor of Political Science, Garin-Pettus Distinguished Chair in American Politics and Political Economy, Ph.D., Yale
- Lia Sapa** Lecturer of English, Ph.D., Texas (Dah)
- Nich Sapia** Assistant Professor of Anthropology, Ph.D., Hawaii
- Bard Siger** Associate Professor of Mathematics, Ph.D., Virginia Tech
- S. Lyn Sigs** Professor of Statistical Science, Ph.D., North Carolina (Chapel Hill)
- Tim Sign** Senior Lecturer of English, Ph.D., Denver
- Tera Stecker** Senior Lecturer of Biological Sciences, Ph.D., California (Los Angeles)
- Rud Sign** Professor of Physics, Ph.D., Geneva (Switzerland)
- Brian W. Sign** Professor of Earth Sciences, Claude C. Albritton, Jr. Chair in Earth Sciences, Ph.D., California (Berkeley)
- Rajai Sign** Associate Professor of English, Ph.D., Colorado
- Steven D. Sign** Professor of Philosophy, Ph.D., China
- Nel J. Sign** Professor of Earth Sciences, Ph.D., California (Dah)
- Hil Takchi** Associate Professor of Political Science, Ph.D., California (Los Angeles)
- Peg Tao** Assistant Professor of Chemistry, Ph.D., Ohio State
- Juan Tash** Professor of Mathematics, Ph.D., Colorado
- Heidi Thann** Assistant Professor of French, Ph.D., Pennsylvania
- Brad Thann**

Dedman College Faculty (continued)

- Shelley Weber** Professor of Economics, Robert H. and Nancy Dedman Trustee
Professor in Economics, Ph.D., Hebrew University
- Stephen K. Wegner** Professor of Political Science, International and Area Studies
Director, Ph.D., China
- Steven Weisberger** Professor of English, Professor of Humanities, Jacob and
Frances Sanger Mossiker Endowed Chair, Ph.D., Washington
- Katherine A. Wehm** Professor of History, Ph.D., Chicago
- A. Philip Wesley** Assistant Professor of Biological Sciences, Ph.D., Yale
- Laura Caccia Wesley** Lecturer of Biological Sciences, Ph.D., Yale
- Ruth K. Weheing** Professor of Anthropology, Ph.D., Michigan
- Elizabeth Wheat** Senior Lecturer of Economics, Ph.D., Texas
- Alan Brian Wheeler** Associate Professor of English, Medieval Studies Director,
Ph.D., Brown
- J. Maheshwari** Associate Professor of Political Science, Ph.D., Delhi
- Laura H. White** Senior Lecturer of History, Ph.D., Michigan
- John White** Associate Professor of Biological Sciences, Ph.D., Rochester
- Paul Wiarne** Professor of Chemistry, Ph.D., Texas
- Agnes Wood** Professor of Practice of English, M.A., SMU
- Walter A. Wood** Professor of Statistical Science, Department of Statistical
Science Chair, Ph.D., Texas Tech
- Yan Xia**

Dedman College Emeritus Faculty (continued)

- Rh Mgan** Professor Emerita of Political Science, Ph.D., **LiamStae**
- Dahl L. Nieky** Professor Emeritus of History, Ph.D., **Tha**
- LadkyP. Nok** Professor Emeritus of Anthropology, Ph.D., **Miro**
- BejainbyPet** Professor Emeritus of Philosophy, Ph.D., **Ba**
- Bre Pige,** Professor Emeritus of Sociology
- ChapB. Read,** Professor Emeritus of Statistical Science, Ph.D., **Nb Cal**
(ChapH)
- Gege W. ReddienJr;** Professor Emeritus of Mathematics, Ph.D., **Gega Tech**
- Lawre S. Rben** Professor Emeritus of Biological Sciences, Ph.D., **Miro**
- WahR. Rel** Professor Emeritus of Economics, Ph.D., **Wahigh**
- C. Gah Sagn** Professor Emeritus of Anthropology, D.Phil, **Ofo**
- WahR. Schcap** Professor Emeritus of Statistical Science, Ph.D., **SMU**
- Lawre F. Shajn** Professor Emeritus of Mathematics, Ph.D., **Calia**
Inf6Techy
- Kerh Dal Shields** Professor Emeritus of English, Ph.D., **Edingh**
- DWytSin** Professor Emerita of Mathematics, M.A., **SMU**
- DahlJ. Spe,** Professor Emeritus of Economics, Ph.D., **Texas&M**
- C.W. Sin** Professor Emeritus of English, M.A., **Nberis**
- FahSgandersBem** Professor Emeritus of Biological Sciences, Ph.D.,
Nebra
- Lila BetStean** Professor Emerita of Sociology, Ph.D., **NewVhSta**
Bb
- WahH. Tedfo, Jr;** Professor Emeritus of Psychology, Ph.D., **Egn**
- VgdL. Telp** Professor Emeritus of Physics, Ph.D., **Majrd**
- MahalN. Tey** Professor Emeritus of English, M.A., **SMU**
- JhdE. Ubehkr** Professor Emeritus of Biological Sciences, Ph.D., **ChdSat**