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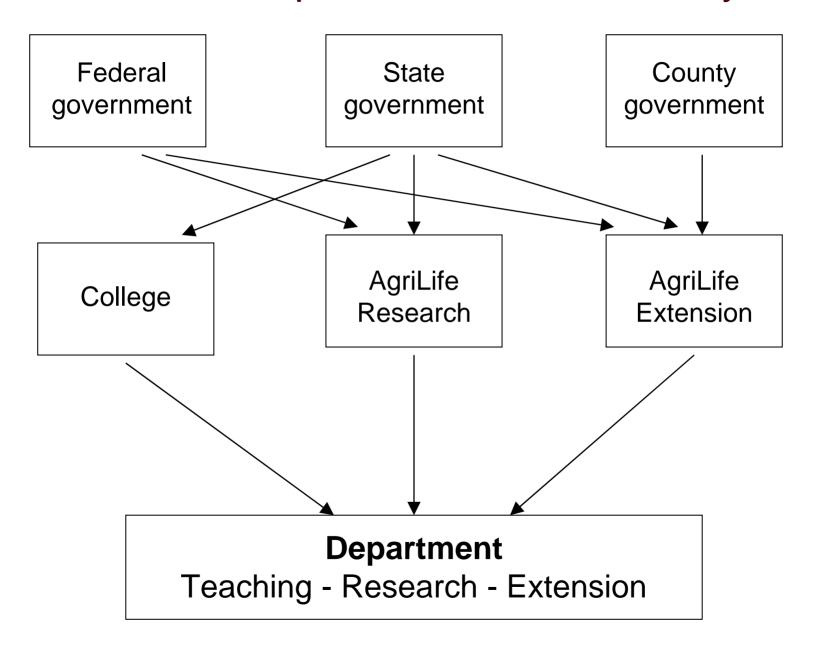
USDA Economists Group

CHANGING STUDENTS, EVOLVING CURRICULA, AND EXPANDING OPPORTUNITIES FOR PUBLIC SERVICE

February 23, 2009
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Professor
Department of Agricultural Economics

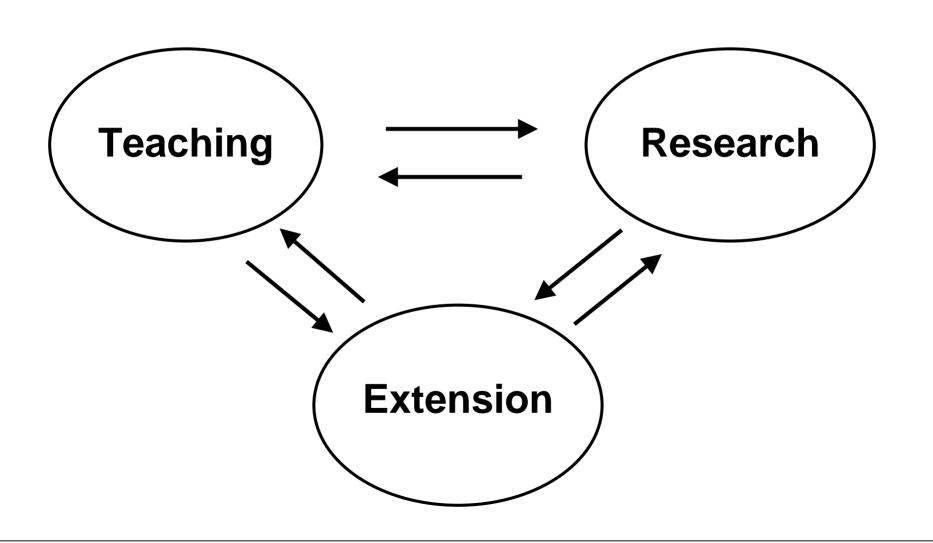


Inter-relationships in the Land Grant System



Land Grant Synergies

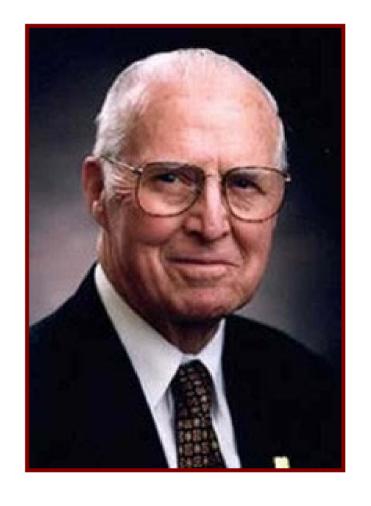




College of Agriculture and Life Sciences



Our Purpose: "To conduct teaching, research, and extension programs in agriculture, the life sciences, and natural resources that impact the quality of life, equity, and economic growth of Texas and beyond."



Teaching Roadmap



College of Agriculture and Life Sciences

A member of The Texas AAM University System

 Offer academic programs that are relevant and effective in developing students' lifelong learning skills.

 Improve teaching effectiveness and learning excellence.

 Attract and retain students with high potential who represent diverse backgrounds and experiences.

College of Agriculture and Life Sciences



Designing Curricula for Professional Education:

To Produce <u>Market-Ready</u> Graduates

About the College



- Is the third-largest college at Texas A&M University.
- Has one of the largest enrollments of any college of agriculture in the United States
- Consistently ranks as one of the top colleges of agriculture and life sciences in the nation.



Diverse Needs - Diverse Programs

Food and Fiber Production Systems

- Animal Science
- Biological and Agricultural Engineering
- Horticultural Sciences
- Nutrition and Food Sciences
- Poultry Science
- Soil and Crop Sciences

Social Sciences and Business

- Agricultural Economics
- Agricultural Leadership, Education and Communications



Diverse Needs - Diverse Programs

- Natural Resources and Environment
 - Ecosystem Science and Management
 - Recreation, Park and Tourism Sciences
 - Wildlife and Fisheries Sciences
- Biological and Life Sciences
 - Biochemistry and Biophysics
 - Entomology
 - Plant Pathology and Microbiology

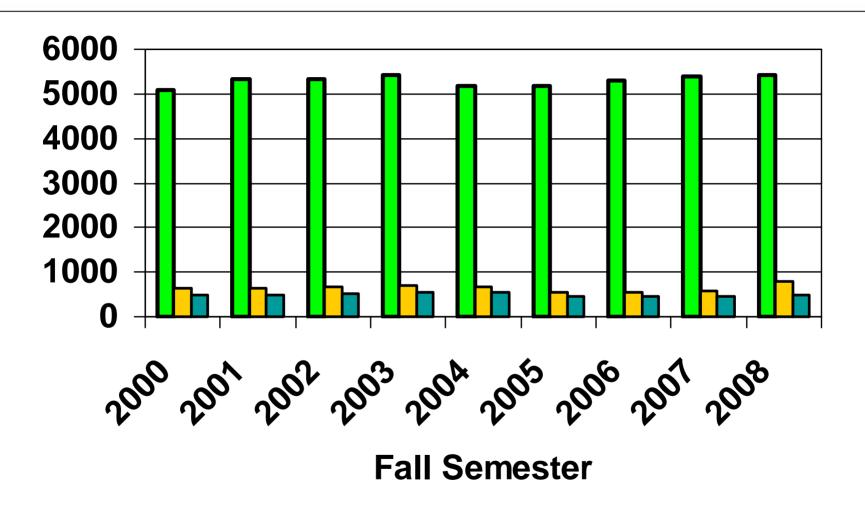




	Bachelors	Masters	Doctoral
Interdisciplinary	3	8	5
Interdepartment	2	8	2
Departmental	25	35	19
Total	30	51	26

Total Enrollment





■ Undergraduate ■ Masters ■ Doctoral

Changing Students

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Millennials, AKA, Generation Y (born 1980 – 2000)

- Expect instant feedback and convenience (24/7).
- Proficient in use of modern technology.
- Variety of learning styles and level of skills.
- Thrive on variety, change, and stimulation easily bored.
- Relate to real-world tasks and examples education must be meaningful and relevant.
- Want to hear truth instructors must be "real," credible.
- Holistic seeking balance between school and life, work and life.
- Interested in service volunteerism is of interest.

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Self-Entitled Students

- Research by Greenberger, Lessard, Chen, and Farruggia in J Youth Adolescence in 2008
- Study at University of California-Irvine assessed "academic entitlement" (AE)
- Expectations of high grades for modest effort and demanding attitudes towards teachers.
- Caused by their parents exerting achievement pressure marked by social comparison with other youth and rewards for good grades.
- AE was not significantly associated with GPA.

Academic Motivation in Ag Economics

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- Study by Siebert, Litzenberg, Gallagher, Wilson, Dooley, and Wysocki in AJAE.
- A study of undergraduates at Texas A&M University, Purdue University, and the University of Florida.
- Motivation was measured as class attendance.

Academic Motivation in Ag Economics

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Motivators

- Agreed that grades are a good predictor of career success.
- Women tended to be more motivated students.
- Those who expected to attend graduate school within a year following graduation.
- Negatives were work, TV and video games, social time, sleep, and sports.

Team Borlaug in Iraq



- Texas A&M University graduates Blaze Currie (left) and Jonathon Glueck (right)
- Spent summer and fall 2008 developing 4-H clubs in central Iraq.
- Seven clubs with 350 Iraqi youth.



Holding soil samples.

"Conquering Fear - 8 Legs at a Time"



- Kristie Reddick and Jessica Honaker, Entomology graduate students, traveled to Kenya in 2007.
- Studied the elusive Solpugid, a fuzzy cousin of the spiders and scorpions.
- Working with youth to reduce fear and prejudices.







- Emphasize our interdisciplinary and application strengths
- Update traditional degree programs
- Provide more flexibility
- Develop the soft skills that are hard to teach
- Experiential learning study abroad, internships

Responding to New Needs and Opportunities



- BS in Forensic & Investigative Sciences
- Bachelors Degree in Spatial Sciences
- University Studies degree
- Master of Biotechnology
- Master of Agribusiness
- Graduate Programs in Water Management



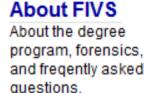
discover forensic and investigative sciences

Texas A&M University

CONTACT SEARCH









Faculty & Staff
Faculty and staff
contacts, profiles, and
research information



Professional Links
Interesting and useful links
about forensic and
investigative sciences
around the world.



Career Opportunities
Forensics careers, tips and
advice for students,
information for internships
and other career information



Students
Prospective and
current students,
course descriptions,
forms and calendars

2475 TAMU • College Station, Texas 77843-2475 • forensics@tamu.edu

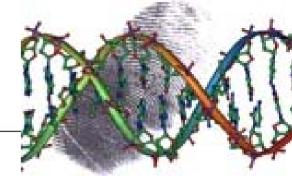
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Forensic & Investigative Sciences Degree



- Prepares students for more than a career as a crime scene investigator like CSI.
- The curriculum emphasizes the use of evidentiary information to solve problems.
- Students apply state-of-the-art science and technology as tools to help answer critical questions.
- Career opportunities include law, medicine, homeland security, public safety, environmental quality, and public health.

It's up to you...

Air and Water Quality Management Bioenvironmental Science

Business

Consulting

Forestry

Homeland Security

Local, State and Federal Agencies

Natural Resource Management

Oil and Gas Industry

Public Health

Rangeland Ecology

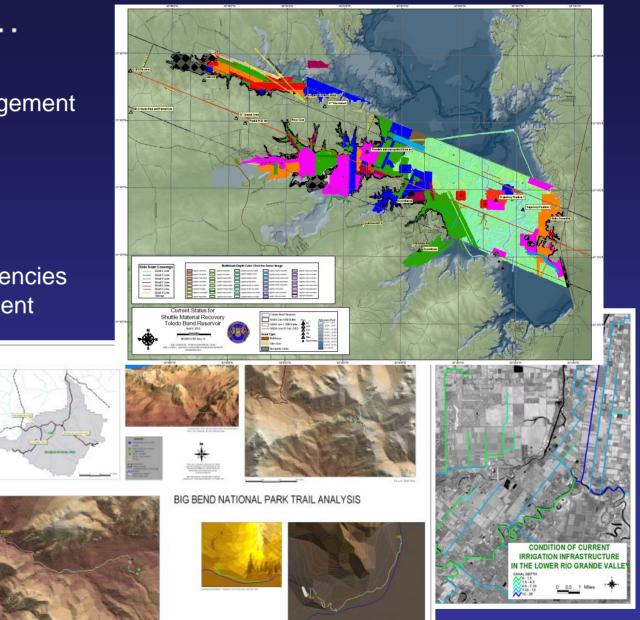
Soil and Crop Science

Transportation

Urban Planning

Watershed Management

Wildlife Management





Spatial Sciences Degree

- University-level bachelors degree administered by College of Agriculture and Life Sciences and College of Geosciences (Department of Geography).
- Uses cutting edge computing technology to address issues in sociology, economics, environmental, and natural resources.
- Expect to enroll 75-100 students.

University Studies Degree



- One area of concentration and two minors.
- Existing area of concentration:
 - Leadership Studies
- Pending area of concentration:
 - Global Agr. & Environmental Studies

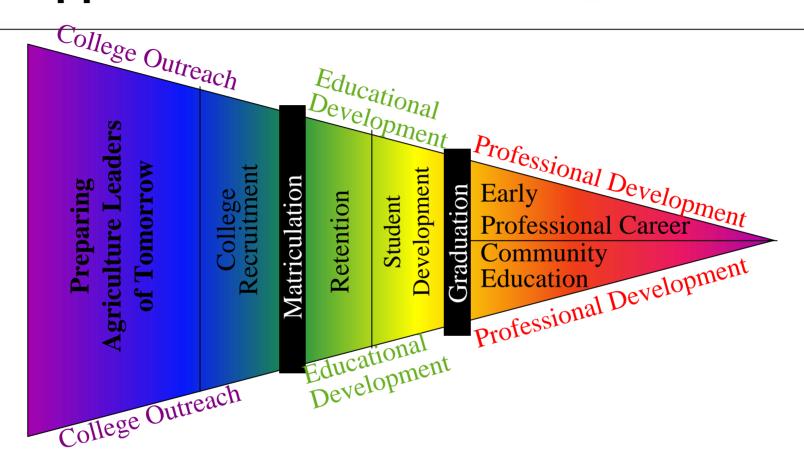
Innovative Teaching Methods



- Team teaching
- Recognize different learning styles
- Diverse students learn differently
- Focus on outcomes
- Engage the students
- Why do you need to learn this?

A Total System Approach





Undergraduate Educational Initiative Model

The Abriendo Puertas Parental Communication Initiative

Texas A&M University
College of Agriculture and Life Sciences



Abriendo Puertas

The "Abriendo Puertas" (Opening Doors) Parental Communication Initiative is a 501(c)3 entity that was developed by and is supported by Texas A&M University's College of Agriculture and Life Sciences to provide a parental support system that assists Hispanic students in high school completion and college graduation.



Cornerstones

- Abriendo Puertas is a grass-root, communitybased initiative, built on the foundation that:
- (1) every parent desires a better life for their children, and
- (2) educating our future leaders is a familial and community responsibility.



Accomplishments

Abriendo Puertas has trained over 2,000 volunteers and has provided outreach to over 25,000 families in its short five year existence.



Abriendo Puertas

Abriendo Puertas:

- Is built on a replicable, and sustainable researchbased, model which utilizes trained "volunteer" parent-to-parents to accomplish its objective;
- Works in conjunction with community agencies, educational entities, municipalities, and industry;
- Has trained over 2,000 volunteers and has provided outreach to approximately 30,000 families in its short five year existence, and
- Has received local, state, and national accolades.

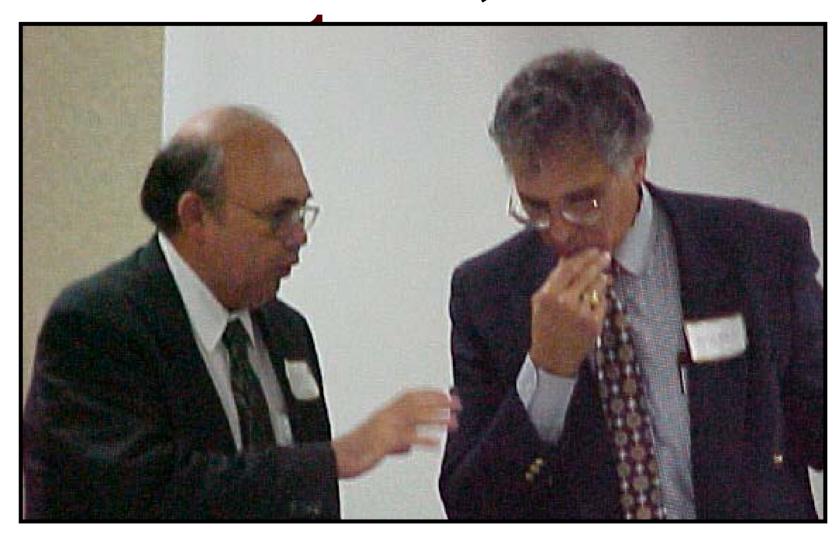


Hispanic Leaders in Agriculture and the Environment



Recruiting and training graduate students.

Initial contact, 1998

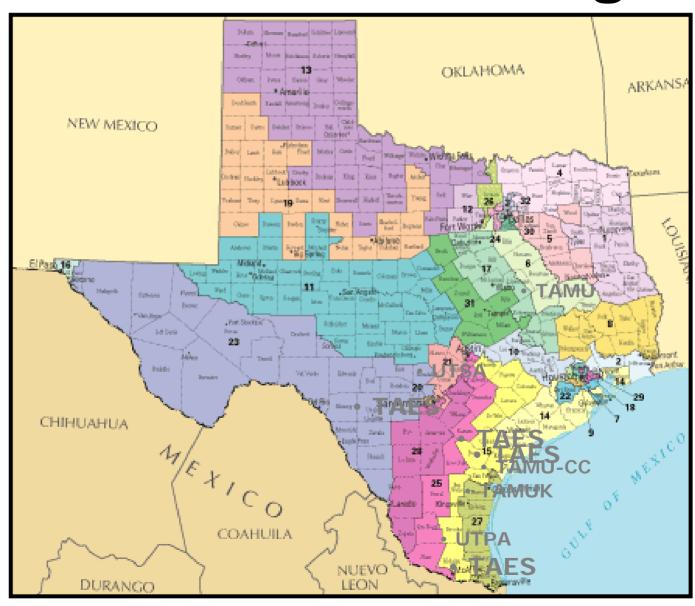


Jose Salinas
Special Assistant to the Deputy Chief (Retired)
USDA-Forest Service

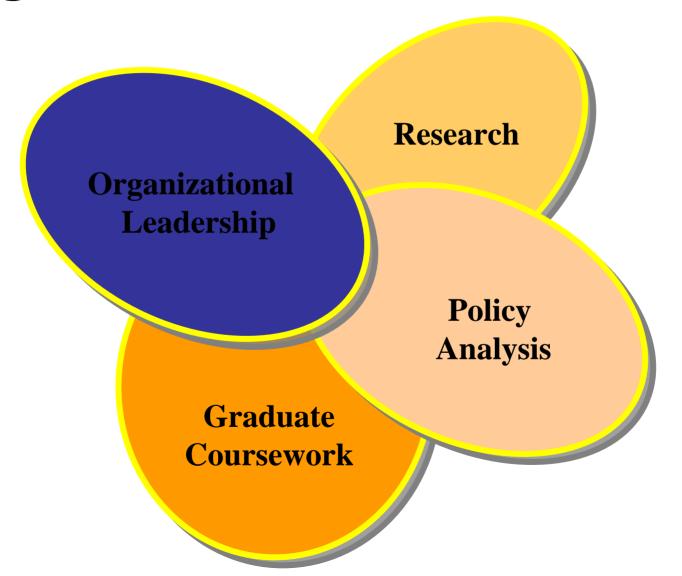
Goal: Increase number of Hispanic leaders in governmental and non-governmental organizations, colleges and universities, and private industries related to "agriculture and the environment"



Research-Based Bridges



Hispanic Leaders in Agriculture and the Environment

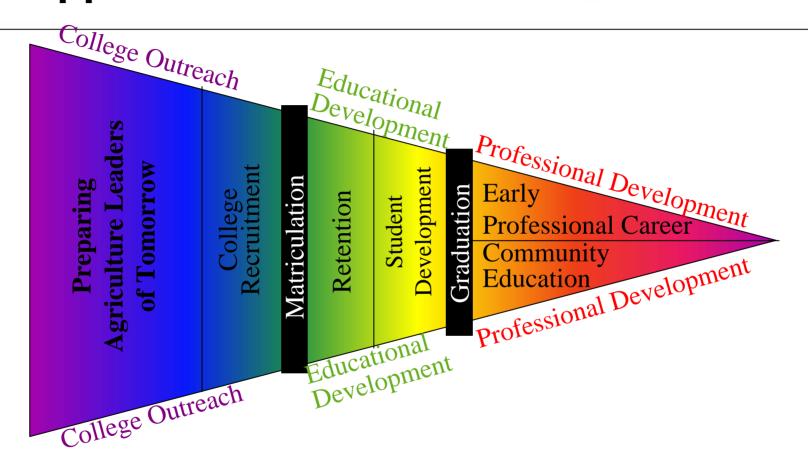


Major Outcomes!

- 73 students enrolled to date
- TAMU (48), UTSA (18), TAMUK (4), TAMU-CC (3)
- M.S. (39), Ph.D. (35)
- Hispanic (60), White (10), African-American (3)
- Male (36), Females (37)
- Graduated (27) (38%) [M.S. (20), Ph.D (7)]
- Currently enrolled (30) [TAMU (23), TAMUK (4), TAMU-CC (3), UTSA (1), UTPA (pending)

A Total System Approach





Undergraduate Educational Initiative Model

USDA Economists Group

Future Challenges

- How to make the connections between academia and federal employment opportunities?
- How to structure internships?
- What about short term experiences as a substitute for internships?
- Can we offer more academic credit to make these experiences more appealing to students?
- How do we develop collaborations between academics and federal employers?