

CNAS 2006 Annual Report
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I. Academic Programs

A. Curriculum

We have nearly 2200 undergraduate majors in CNAS: agricultural business; agronomy; animal science; agriculture; horticulture; wildlife conservation and management; clothing, textiles and merchandising; hospitality and restaurant administration; housing and interior design; biology; microbiology/biotechnology; wildlife biology; ecology/evolution; physiology; chemistry; computer science; geography; geology; planning; mathematics; engineering physics; and physics. CNAS also has teacher education programs in agriculture, biology, chemistry, earth science, mathematics, physics, technology and vocation family and consumer sciences. We have graduate programs in biology, chemistry, geospatial sciences, education, mathematics, materials science, plant science, and natural and applied sciences. We provide pre-professional programs in pharmacy, alleopathic and osteopathic medicine, veterinary medicine, dentistry and engineering. In addition we administer the interdisciplinary minor in Environmental Sciences and Policy.

Minor changes were made in academic programs over the past year.

B. Accreditation and Certification

See Appendix 1 for a summary of accreditation/certification and program review cycles.

C. Access

- a. Telecourses – Chemistry and Biology
- b. Evening courses – All units
- c. Dual Credit – Agriculture, Biology, Chemistry, Mathematics, Physics
- d. Web-based courses – Mathematics (MTH135 – College Algebra), Agriculture (pathways program)
- e. CD interactive – GEP397 (biology)
- f. Intersession – Biology, Agriculture, Chemistry
- g. ITV – Agriculture (pathways program)

D. Faculty/Student Awards and Recognition

- a. 2006 University awards – 1 teaching award – Mark Richter
- b. 2006 College awards – 7 teaching awards (see appendix 5)
- c. Anson Elliott – Agriculture Leader of the Year Award (State)
- d. Faculty won teacher appreciation awards from Greek organizations.

E. Undergraduate Student Initiatives

- a. Honors courses in biology, chemistry, and mathematics

- b. Service learning courses in agriculture, biology, chemistry, computer science, geography, mathematics, housing and interior design.
- c. Undergraduate Research – 14 Biology (3 pubs), 35 Chemistry (5 pubs). 24 Physics, Astronomy, and Materials Science
 - i. Math – Funded NSF REU Program
- d. Undergraduate Internships – 101 Agriculture and significant numbers in Applied Consumer Sciences and Planning and Biology (11)
- e. International – Two trips planned to Belize – January and May (Ag and Bio)

F. Graduate Student Initiatives

- a. Theses
- b. Publications
- c. Presentations
- d. # of Students

Department	# of Grad. Students (FA06)	Publications	Presentations	Theses
Agriculture (MNAS/Plant)	16/6	*	*	*
ACS (MNAS)	1	0	0	0
Biology/MNAS	40/5	19	27	9
Chemistry/MNAS	10/4	4	9	4
Computer Science (MNAS)	4	*	*	0
GGP – Geospatial Sci. (MNAS)	23/3	*	*	6
GGP - Planning	2	*	*	(part of 6 above)
Mathematics/MNAS	12/5	*	*	*
Material Science/MNAS	13/1	5	*	5
MS Education (all CNAS disciplines)	12	*	*	*

*Not reported

- f. Several CNAS students won awards at the annual Interdisciplinary Forum and at the annual meeting of the Missouri Academy of Science.

II. Research and Scholarship – Faculty (see also appendix #6 for a log of submitted grants)

Department	# of Pubs	# of Presentations	# of Proposals Submitted	Sources of Funding	Total Funding	# of Funded Projects
Agriculture (includes Mt. Grove)	11 (peer) 44 (non-peer)	62	25	USDA, MODA, Grape/Wine Board	\$1,045,413	54
ACS	1 textbook 1 chapter 2 (peer) 2 juried projects	2	0		0	0
Biology	36	67 (peer) 10 technical reports	15	DOD, EPA, MDC, NIG, USFWS, City of Spfd	\$1,554,260	25
Chemistry	19	32	7	NSF, ACS-PRF, Research Corp	\$501,058	7
Computer Science	6 2 book chapters	4	2			
Geography, Geology, Planning	19	26	20	USGS, EPA, MoDOT, DNR, NSF, SW MO Council of Gov.	\$1,025,714 *includes OEWRI and CRPM	16
Mathematics	19	22	13	NSF, Mo DHE, MAA	\$640,000	13
Physics, Astronomy, Materials Science	17	15	7	NASA, NSF, DESE, ACS-PRF		8

- a. Efforts to support and promote research – See Appendix #1
 - b. Faculty/Student Awards and Recognition
 - a. Eric Bosch – Foundation Award for Research
 - b. 4 university research awards in 2006 – Ghosch (PAMS), Havel (Biology), Qiu (Agriculture), Shah (Mathematics)
 - c. 5 college research awards (see Appendix #5)
 - d. First place awards for designs - ACS
- III. Public Affairs and Community Outreach
- A. Program Evaluation – See Appendix #3 for a complete summary.
 - a. Computer Science had a site visit from ABET in fall of 2006. The final recommendation will be received during the summer of 2007.
 - B. Alumni Activities
 - a. 7 Advisory Boards for programs/departments met in 2006.
 - b. Participated in Homecoming and other university events.
 - C. Community Programs/Partnerships and statewide initiatives
 - a. Many, many partnerships related to water quality issues. (April 17 event will highlight all water quality research and partnerships.)
 - b. Ag has many partners throughout the state – FFA, Farm Bureau, USDA, and others.
 - c. Math education faculty have formed wonderful partnerships throughout the state to obtain significant grant funding.
 - d. Paul Rollinson (GGP) continues to work with groups to try to understand the homeless population in Springfield.
 - D. Faculty/Student Awards
 - a. 3 college service award winners
- IV. Resource Development, Allocation, Effective and Efficient Management
- A. Faculty
 - a. Recruiting, Hiring, Mentoring, Faculty Assignments, Tenure/Promotion, Career Paths – See appendix #4 for college hiring plans and current hiring successes.
 - a. We are currently reviewing faculty loads/assignments.
 - b. We will be reviewing tenure/promotion documents and compensation documents in 2007 in preparation for the next round.
 - B. Fiscal
 - a. Fundraising and Contracts – See faculty grants list above and development list below.
 - b. Budget Allocation and Management
 - a. CNAS was awarded 3 Future’s Proposals
 - b. College budgets have become more transparent. Goal is to also make all college/departmental budgets more transparent.
 - c. Cost Benchmarking – Delaware and other models

- a. At this point credit hour production that has been reviewed indicate that some departments are over-extended but mostly departments are where they ought to be.
- C. Equipment – Equipment needs continue to be a challenge. We have a very good inventory of equipment in CNAS but we currently do not have a replacement/renewal plan. This is being developed in 2007.
- D. Space – I toured all spaces in 2006. Needs include space for storage and more research space. In addition major renovations need to occur in Temple, Kemper, and Kings Street Annex in order to upgrade even more science labs. It would be cheaper to build a new science lab building if indeed the state would approve a capital project.
- E. Development – Jaimie Trussell - DOD

New Founder's Club members:

Gary and Sydney Tompkins
Pat Kimball
FCS Financial (pending signature)
Jerry Atwood (pending signature)

New Endowments:

Chemistry Summer Undergraduate Research Fund
Justice Jeweler's Food and Wine Scholarship
Justice Jeweler's Enology Fund
Pasta Express Scholarship
William J. Husa Scholarship
Dr. Richard Kimball Scholarship
Dr. Richard Martin Undergraduate Research Award (pending signature)
Bull Shoals Field Station Endowment

New Restricted Accounts:

Justice Jeweler's Wine Event fund
JN Smith/FCS Financial Scholarship
HRA Board of Advisors
PAM Advisory Board
Friends of Mountain Grove Event Fund (pending signature)
GeoTrip Fund (pending signature)

Funds YTD \$611,081

Last fiscal year (2006): **\$268,480**

V. Leadership and Management: Challenges and Opportunities

All department heads now have staggered 5 year terms since no one had terms prior to this year. There are a few heads who would like to finish terms soon. We will be challenged to replace them if indeed they want to go back to faculty rather than retire.

The college needs to develop leadership within the college. We will be working on a plan in the near future.

We have a number of centers/institutes/stations within the college with varying budgets. It is time to look at these and see if we are spending our money in the wisest of ways. This will be happening in 2007.

VI. Individual Professional Accomplishments

Teaching – I taught CHM107 (90 students) during the fall semester of 2006. I will be teaching CHM545 (Advanced Organic Chemistry) to seniors/graduate students during the fall semester of 2007.

Preparing for new engineering programs on the Missouri State campus.

Research/Scholarly Activity -

Two presentations (one in 2006 and one accepted in 2007)

Tamera Jahnke. “Leadership in Mission, Planning, Organizational Change, Accreditation, and Accountability,” Annual Meeting of the Higher Learning Commission, Chicago, IL, April 2007.

Tamera Jahnke. “Service-learning in chemistry: Minors only?” 19th Biennial Conference on Chemical Education, Purdue University, West Lafayette, IN, August 2006.

Service –

Consultant Evaluator for the Higher Learning Commission (North Central Association)
Site Visit in March 2006 to University of Wisconsin – Whitewater
Site Visit in March 2007 to Minnesota State University - Moorhead

Member of Missouri State University HLC Assessment Academy

Member of Leadership Springfield Class XXII

Chair of 2007 search for VP of Advancement

Administrative –

Transitioned from Acting Associate Provost to Dean in 2006.

Appendix #1 – CNAS Research Support Activities

Appendix #2 – Goals for 2006-2007 and italicized notes about accomplishments thus far

Appendix #3 – Accreditation/Certification/Program Review Document for CNAS

Appendix #4 – Hiring Plan/Salary Savings Plan for CNAS

Appendix #5 – CNAS Convocation 2006 (Powerpoint)

Appendix #6 – CNAS Grants submitted in 2006-2007

Appendix #7 – Jahnke Vitae

