



Annual Report

2003

College of Arts & Sciences

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College: of Arts and Sciences
Annual Report – CY 2003

A. Academic Unit

College of Arts and Sciences

B. Key Administrators

Dean, Mark A. Burkholder; Associate Deans, Teresa Thiel and Sharon Clark

C. Mission Statement

The College of Arts and Sciences is the academic core of the University of Missouri-St. Louis, a public, metropolitan research university that serves Missouri's most populous and economically and socially diverse region. Through academic programs offered on and off campus, it educates traditional and nontraditional students who will supply knowledge, skills, and intellectual leadership in both the private and public sectors. Active engagement in research and scholarship enables College faculty in every department to advance knowledge and to impart research methods and results directly in their classroom teaching. In addition to providing extensive opportunities in general education and undergraduate and graduate degree programs in many disciplines, the College emphasizes multi-disciplinary programs in life and environmental sciences as well as metropolitan and regional studies.

D. Executive Summary of Key Accomplishments

The College had a very successful year as measured by both faculty achievements and student achievements.

- Professor Joseph Carroll (English) won the UM President's Award for Research and Creativity.
- Professor John Gillingham (History) won the UMSL Chancellor's Award for Excellence in Research and Creativity.
- Associate Professor Sally Ebest (English) won the UMSL Chancellor's Award for Outstanding Teaching.
- Lecturer Elizabeth Eckelkamp (Foreign Languages and Literature) won the UMSL Chancellor's Award for Excellence to a Non-Academic Regular.
- The Board of Curators and the CBHE approved new B.S. and M.S. degree programs in Biochemistry & Biotechnology that will be offered starting in the Fall of 2004.
- The Philosophy Department continued to be nationally ranked among the top three M.A.-only degree programs.
- Faculty in the College were awarded 71 grants from external sources totaling \$5,846,490 to support their research and creative activities.
- The College received over \$708,000 in gifts, including a \$100,000 donation from Mrs. Alice Meehan.
- College faculty published 403 scholarly works, including books, book chapters, and journal articles, an average of over 2 works per regular faculty member.
- The College graduated 631 undergraduates (day and evening) and 215 graduate students of whom 31 earned a Ph.D. Certificates were awarded to 51 undergraduates

and 20 graduate students.

- A total of 50 students in the College were awarded the Golden Key and 28 were named to Who's Who. Departments in the College awarded scholarships, fellowships and other awards to over 150 students. These awards ranged in value from \$50 to \$15,000.
- The number of courses/sections taught in the College was 896 at the undergraduate level and 246 at the graduate level (both exclusive of independent study, directed study, directed readings, and theses).
- Total Student Credit Hours produced by the College (exclusive of Evening College, Video Instruction and Outreach) were 88,996 at the undergraduate level and 8234 at the graduate level.
- Several departments in the College are now offering degree programs at St. Charles Community College, Jefferson College, and Mineral Area College and others plan to offer more programs in the future.

E. Faculty Key Accomplishments

In addition to grants and scholarly publications, which are highlighted in the next two sections of the report, highlights of the key accomplishments include:

- Professor Michael Cosmopoulos (Anthropology): won the Archeological Institute of America's Award for Excellence in Undergraduate Teaching in Archeology, a prestigious international teaching award.
- Associate Professor Godfrey Bourne (Biology): accepted a one-year position as a Program Officer at the National Science Foundation to begin in Fall 2004.
- Professor Elizabeth Kellogg (Biology): received an honorary doctorate from the Universidad Nacional de Córdoba, Argentina, and was also elected an honorary member of the Golden Key Honor Society.
- Professor Robert Marquis (Biology): received an Exceptional Service Award from the Association for Tropical Biology and Conservation.
- Professor Patricia Parker (Biology): was elected Councilor for the American Ornithologists Union, named a Fellow for the Animal Behavior Society, and received the Fellow's Award of the Saint Louis Academy of Science.
- Curators' Professor Robert Ricklefs (Biology): received the Lifetime Achievement Award from the Pacific Seabird Group and the Margaret Morse Nice Medal from the Wilson Ornithological Society.
- Professor Eric Baumer (CCJ): received the American Society of Criminology's Outstanding Young Scholar Award.
- Professor Richard Rosenfeld (CCJ): was appointed to the national Academy of Science's Committee on Law and Justice.
- Professor Howard Schwartz (English): his book, *Invisible Kingdoms: Jewish Tales of Angels, Spirits and Demons*, was selected as Best Children's Book of the Year by the Bank Street College of Education's Children's Book Committee, and received the National Jewish Book Association's Children's Literature Award.
- Professor Ronald Munson (Philosophy): his book, *Raising the Dead*, was named a "Best Book in Science or Medicine" by the American Library Association.
- Professor Lana Stein (Political Science): her book, *St. Louis Politics: The Triumph of*

Tradition, won the Eagleton-Waters Award for Best Book on Missouri Political History from the State Historical Society of Missouri.

- Professor Jayne Stake (Psychology): was named editor of the *Journal of Psychology of Women Quarterly*.
- Arts and Sciences faculty members gave 381 professional conference papers and presentations in 2003.
- The number of Arts and Sciences faculty memberships in professional associations and/or honor societies totals 515.

F. Grants

Faculty in the College of Arts and Sciences were very successful last year in obtaining external funding for their research programs and scholarly activities. The College portion of these 91 awards totaled almost \$6.5 million (see Table below); the overall award totals, including the College portion, was just under \$9 million, with 29 total project awards of \$100,000 or more. Just under \$3.5 million of the awards came from departments that represent the sciences, with departments in the social sciences accounting for about \$3 million. The College is proud of the large number of faculty that has been successful in receiving grants to support their work and hopes to see increases in the future as faculty are strongly encouraged to apply for more external grants.

Grant Awards by Department, CY 2003

Department	Number of Awards	CAS Portion of Awards
Anthropology	4	\$192,146
Biology	49	\$1,511,613
Center for Neurodynamics	2	\$109,382
Chemistry	12	\$1,521,534
Criminology and Criminal Justice	3	\$1,703,158
Economics	2	\$107,176
English	1	\$4,000
Foreign Languages and Literature	1	\$900
Physics and Astronomy	5	\$228,893
Psychology	8	\$691,274
Social Work	3	\$418,116
Total	90	\$6,488,191

G. Scholarly Publications by Department, CY 2003

A summary of the number of scholarly publications and the number of faculty who published in each department is provided in the table below. One hundred thirty nine of 170 regular faculty published in 2003. The average number of publications per faculty member who published was about three.

Scholarly Publications

Department	Number of Faculty Who Published	Number of Publications
Anthropology	8	14
Biology	11	41
Chemistry & Biochemistry	14	50
Criminology & Criminal Justice	14	55
Economics	4	15
English	11	18
Foreign Languages & Literature	1	2
History	7	13
Math & Comp. Science	11	31
Philosophy	7	33
Physics & Astronomy	4	32
Political Science	12	20
Psychology	14	24
Political Science	12	38
Social Work	6	10
Sociology	3	7
Total	139	403

H. Faculty Service Accomplishments by Department, CY 2003

The faculty in the College are actively involved in service to the institution at all levels and in service to the community. Some particularly noteworthy activities include the following:

- Anthropology: Professor Van Reidhead began his second year as chair of the Faculty Senate and University Assembly and continued his service on the Intercampus Faculty Council.
- Biology: The International Center for Tropical Ecology (ICTE), under the direction of Associate Professor Bette Loiselle (Spring 2003), Professor Peter Stevens (Fall 2003) and Patrick Osborne, has been active in fund raising and development activities. Some of the service activities and programs of the ICTE included Earth Day; EarthLinks: Ecology in Transit; Conservation Forum; and the annual Jane & Whitney Harris Lecture. Curators' Professor Robert Ricklefs served on the UM Research Board.
- Chemistry and Biochemistry: All faculty members in the department are involved in reviewing manuscripts for publication in professional journals and grant proposals for external agencies. Professor Joyce Corey continued to serve as a UM Research Board member, and Professor Lawrence Barton, who serves as Councilor to the American

Chemical Society, was the editor of *The UMSL Chemist*.

- Criminology and Criminal Justice: Several faculty in CCJ, including G. David Curry, Scott Decker, Bruce Jacobs, David Klinger, Richard Rosenfeld, and Jody Miller contributed their expertise in various areas of criminology to the popular media via newspaper, magazine, television, and radio interviews. Professor Richard Rosenfeld chaired the UM Research Board.
- Economics: Professor Anne Winkler served as VP for the Midwest Economics Association, and Professor Susan Feigenbaum served as a Trustee of the Missouri Consolidated Health Care Plan.
- English: Assistant Professor Mary Troy was Director of the MFA Program, and Professor Eamonn Wall was Director of the UM-St. Louis Irish Summer Program. Judy Linville, Senior lecturer, once again served as Academic Advisor to the student newspaper, *The Current*.
- Foreign Languages and Literature: the department provided ongoing major services to other units on campus such as CIS, Honors College, International Business, and Secondary Education. Elizabeth Eckelkamp, Lecturer, co-organized (with Allan Bird, Business) a Japan Study Tour, while Assistant Professor Maite Núñez-Betelu worked with CIS in implementing a summer abroad exchange in Mexico.
- History: The department continued to host the St. Louis Regional National History Day competition, with history faculty serving as judges. Professor Carlos Schwantes served as Historian/Professional Lecturer for several activities leading up to the commemoration of the Lewis and Clark Expedition.
- Mathematics and Computer Science: Charles Chui served as a reviewer at two NSF review panels, and was an advisor to Elsevier in two book divisions.
- Philosophy: Several faculty members serve as reviewers for professional publications. Professor Paul Roth was co-chair of the International Philosophy of Social Science Round Table, and Professor Ronald Munson served as Medical Ethicist, NIH/National Eye Institute Multicenter Ocular Hypertension Treatment Study.
- Physics and Astronomy: Professor Frank Moss was invited to write an editorial commentary for the October issue of *Nature* on the use of stochastic resonance to aid the balance of elderly people. Professor Bernard Feldman served as a board member of the NSF Small Business Innovation Research division, and Professor Peter Handel was a member of the International Committee on Noise in Physical Systems. Professor Ta-Pei Cheng instituted a Physics Learning Center – a place for students in Physics 2112 to meet and work on physics problems.
- Political Science: Professor David Robertson served as political analyst for KSDK TV, and provided political analysis for KMOX and KWMU radio stations. Professor Terrance Jones was elected chair of the University Senate Budget and Planning Committee.
- Psychology: Professor Ann Steffen served as the Vice Chair of the Board of the St. Louis Alzheimer's Association. Community Psychological Services and the Center for Trauma Recovery treated well over 1,000 clients from the St. Louis area in 2003. Professor George Taylor served on the UM Research Board.
- Sociology: Chikako Usui served as president of the Association of Japanese Business Studies. Many faculty members organized sessions and panels at conferences.
- Social Work: Faculty members served on 17 social services agency Boards of

Directors or Advisory Boards. Professor Lois Pierce served as one of the campus representatives to the Inter-campus Faculty Council.

- Numerous faculty provided professional service to journals and publishing houses. A complete list of those faculty serving in editorial positions is provided below:

Journal Editors by Department, CY 2003

Name	Department	Journal	Position
Michael Cosmopoulos	Anthropology	<i>Journal of Modern Hellenism</i>	Co-Editor
Bette Loisel	Biology	<i>American Naturalist</i>	Associate Editor
Robert Marquis	Biology	<i>Biotropica</i>	Editor
Patricia Parker	Biology	<i>American Naturalist</i>	Associate Editor
Elizabeth Kellogg	Biology	<i>Molecular Biology and Evolution</i>	Associate Editor
Hal Harris	Chemistry	<i>Journal of Chemical Education</i>	Feature Editor
James Chickos	Chemistry	<i>Structural Chemistry</i>	Member, Advisory Board
Christopher Pigge	Chemistry	<i>Current Organic Syntheses</i>	Member, Advisory Board
Scott Decker	CCJ	<i>Criminology</i>	Associate Editor
Scott Decker	CCJ	<i>Justice Quarterly</i>	Associate Editor
Robert Burskirk	CCJ	<i>Criminology</i>	Editor
G. David Curry	CCJ	<i>Criminology</i>	Associate Editor
Jody Miller	CCJ	<i>Justice Quarterly</i>	Associate Editor
Jody Miller	CCJ	<i>Journal of Contemporary Ethnography</i>	Consulting Editor
Sel Dibooglu	Economics	<i>International Business and Economic Review</i>	Consulting Editor
Sel Dibooglu	Economics	<i>Journal of Administrative Sciences</i>	Consulting Editor
Sel Dibooglu	Economics	<i>Journal of Comparative Economics</i>	Consulting Editor
Sel Dibooglu	Economics	<i>Journal of Applied Economics</i>	Consulting Editor
Sel Dibooglu	Economics	<i>Journal of Macroeconomics</i>	Consulting Editor
Sel Dibooglu	Economics	<i>Review of International Economics</i>	Consulting Editor
Sel Dibooglu	Economics	<i>Contemporary Economics</i>	Consulting Editor
Anne Winkler	Economics	<i>Journal of Human Resources</i>	Consulting Editor
Anne Winkler	Economics	<i>Population Research and Policy Review</i>	Consulting Editor
Anne Winkler	Economics	<i>Review of Economics of the Household</i>	Consulting Editor
Anne Winkler	Economics	<i>Journal of Policy Analysis and Management</i>	Consulting Editor
Anne Winkler	Economics	<i>Demography</i>	Consulting Editor
Anne Winkler	Economics	<i>Public Finance and Management</i>	Consulting Editor
Larry White	Economics	<i>Review of Austrian Economics</i>	Associate Editor
David Rose	Economics	<i>J. of Economic Behavior and Organization</i>	Consulting Editor
Howard Schwartz	English	<i>Natural Bridge</i>	Senior Editor
Frank Grady	English	<i>Studies in the Age of Chaucer</i>	Editor
Lorna Williams	Foreign Languages and Literature	<i>Afro-Hispanic Review</i>	Co-Editor
Jeanne Zarucchi	Foreign Languages and Literature	<i>Cahiers du dix-septieme siecle</i>	Member, Editorial Board

Kimberley Sallee	Foreign Languages and Literature	Thomson/Heinle, pubs.	Consulting Editor
Susan Yoder-Kreger	Foreign Languages and Literature	Vista Higher Learning	Consulting Editor
Charles K. Chui	Math and Computer Science	<i>Applied and Computational Harmonic Analysis</i>	Editor-in-Chief
Charles K. Chui	Math and Computer Science	<i>Journal of Approximation Theory and Applications</i>	Editor
Charles K. Chui	Math and Computer Science	<i>Journal of Approximation Theory</i>	Member, Editorial Board
Charles K. Chui	Math and Computer Science	<i>Advances in Computational Mathematics</i>	Member, Editorial Board
Charles K. Chui	Math and Computer Science	<i>Elect. Journal of Differential Equations</i>	Member, Editorial Board
Charles K. Chui	Math and Computer Science	<i>International Journal of Wavelets & Multiresolution</i>	Member, Editorial Board
Uday K. Chakraborty	Math and Computer Science	<i>Journal of Computing and Information Technology</i>	Member, Editorial Board
Uday K. Chakraborty	Math and Computer Science	<i>Information Sciences Journal</i>	Guest Editor
Paul Roth	Philosophy	<i>Philosophy of Social Sciences</i>	Editor
Thaddeus Metz	Philosophy	<i>South African Journal of Philosophy</i>	Editor
Stephanie Ross	Philosophy	<i>Journal of Aesthetics and Art Criticism</i>	Editor
James. Buickerood	Philosophy	<i>Journal of Eighteenth Century Thought</i>	Editor-in-Chief
Frank Moss	Physics	<i>Chaos</i>	Associate Editor
Frank Moss	Physics	<i>Cambridge Nonlinear Science Series</i>	Senior Editor
Frank Moss	Physics	<i>International J. of Bifurcation and Chaos</i>	Member, Editorial Board
Phil Fraundorf	Physics	<i>Journal of Computer-Assisted Microscopy</i>	Member, Editorial Board
Lyman Tower Sargent	Political Science	<i>Utopian Studies</i>	Editor
David B. Robertson	Political Science	<i>CLIO</i>	Editor
David B. Robertson	Political Science	<i>Journal of Policy History</i>	Associate Editor
Samuel Marwit	Psychology	<i>Omega</i>	Member, Editorial Board
Samuel Marwit	Psychology	<i>Death Studies</i>	Member, Editorial Board
Samuel Marwit	Psychology	<i>Journal of Death and Dying</i>	Member, Editorial Board
Paul Notaro	Psychology	<i>Journal in Support of the Null Hypothesis</i>	Member, Editorial Board
Miles Patterson	Psychology	<i>Journal of Nonverbal Behavior</i>	Member, Editorial Board
Miles Patterson	Psychology	<i>Human Communication Research</i>	Member, Editorial Board
Jayne Stake	Psychology	<i>Psychology of Women</i>	Associate Editor
Chikako Usui	Sociology	<i>Asian Business and Management</i>	Member, Editorial Board
Chikako Usui	Sociology	<i>Theory and Society</i>	Editorial Associate
Margaret Sherraden	Social Work	<i>Journal of Ethic and Cultural Diversity</i>	Member, Editorial Board
Margaret Sherraden	Social Work	<i>Journal of Community Practice</i>	Member, Editorial Board
Lia Nower	Social Work	<i>e-Gambling</i>	Member, Editorial Board
Uma Segal	Social Work	<i>Health and Social Work</i>	Member, Editorial Board
Uma Segal	Social Work	<i>Journal of Ethnic and Cultural Studies</i>	Member, Editorial Board

I. Number of Faculty, Staff, Teaching Assistants and Research Assistants

The total number of regular faculty is 170, or 157.0 FTE (in CY 2002 179 or 169.3 FTE), non-regular faculty is 83 or 79.9 FTE (in CY 2002 90 or 86.9 FTE), adjunct faculty is 121 or 51.0 FTE (in CY 2002 104 or 37.6 FTE), teaching assistants is 123 or 60.6 FTE (in CY 2002 121 or 59 FTE), research assistants is 69 or 34.4 FTE (in CY 2002 77 or 37.8 FTE) and administrators and staff is 56 or 45.5 FTE (in CY 2002 67 or 57.4 FTE). Of the 170 regular faculty in the college, 39 are assistant professors, 56 are associate professors, 64 are professors, 8 are Curators' Professors and 3 are distinguished professors. The largest number of regular faculty is in English (18), with 17 in each of biology and political science. The smallest number is in sociology (3). As indicated in the above comparisons with CY 2002, the number of faculty in the College is declining rapidly as faculty who leave are not replaced. As a result of VERIP the decline in faculty was much worse in FY 2003 than in FY 2002. This trend toward an ever-smaller regular faculty base is one of the most serious concerns of the College.

J. Student Accomplishments, Awards, and Indicators of Success

Many undergraduate and graduate students in the college were actively involved in research projects with faculty mentors and many of those were included as coauthors of publications or presentations at professional conferences. A few key accomplishments are highlighted here:

- Anthropology: 3 graduates became members of Lambda Alpha National Honor Society; two majors were accepted into top graduate programs, one on full scholarship; two majors spent the summer in study abroad programs on scholarship; and 15 students were engaged in internships.
- Biology: 17 graduate students received at least one competitive grant to support research. Particularly noteworthy was the award to Noah Whiteman of the NSF International Dissertation Enhancement Fellowship (\$25,100).
- Chemistry and Biochemistry: of the department's refereed publications, 17 had graduate student co-authors and 1 had an undergraduate co-author; of the department's presentations at professional meetings, 28 had graduate student co-authors and 1 had an undergraduate co-author. Kim Gorman (BA, chemistry, 1993), was honored with an UMSL Distinguished Alumni Award in September, 2003.
- Criminology and Criminal Justice: 19 Ph.D. students received various fellowship awards. Three 2003 Ph.D. graduates were appointed to assistant professorships at various institutions.
- Economics: Ian Schmutte was awarded a Fulbright Fellowship to the University of Sydney, Australia. Four majors were accepted into top graduate programs.
- English: Seven MFA students have published poetry and short stories in literary journals. Past MFA graduates are pursuing a variety of writing, editing and teaching careers around the county.
- Foreign Languages and Literature: 15 students received Study Abroad placements.
- History: Three students were awarded E. Desmond Lee Museum and Community History Studies Fellowships. Two students won graduate school scholarships.
- Mathematics and Computer Science: A team of undergraduates represented UMSL at the MAA Collegiate Mathematics Competition in April, 2003.
- Philosophy: Two M.A. graduates went on to enroll in doctoral programs.

- Physics and Astronomy: Graduate student Kari van Brunt received a NASA/Missouri Space Grant Consortium Graduate Fellowship (\$13,000), and Eric Mandell was named an Outstanding Graduate Teaching Assistant by the American Association of Physics Teachers.
- Doctoral student Matt McLaughlin co-authored a book chapter and undergraduate Courtney Stirrat was selected to attend the 2003 US Naval Academy Foreign Affairs Conference in Annapolis. Majors continued to be very active in UMSL campus affairs.
- Psychology: Five Clinical Ph.D. students were accepted for internships, all at their first choice sites. 20 graduating majors were accepted into graduate schools.
- Dan Flynn served as the student representative to the Missouri Sociological Society, and M.K. Stallings was the third-place winner in the Missouri Sociological Society student paper competition.
- Social Work: Eighty students were in agency internships during the Spring and Fall semesters; 35 students were in agency internships during the Summer period. Six students were awarded Title IVE stipends (\$7,500).

College of Arts and Sciences Golden Key and Who's Who – 2003

Bachelor's

Department	Golden Key	Who's Who
Anthropology	4	2
Biology	6	2
Chemistry & Biochemistry		1
Computer Science	5	
Criminology & Criminal Justice	4	1
Economics	3	
English	6	1
Foreign Language	1	2
History	1	1
Mathematics	1	
Philosophy		1
Physics & Astronomy		1
Political Science	3	4
Psychology	12	6
Social Work	3	
Sociology		1

Master's

Economics		1
Physics and Astronomy		1
Sociology		1

Ph.D.

Physics and Astronomy		1
Political Science		1

Totals

Undergraduate	50	23
Master's & Ph.D.		5
Grand Total	50	28

K. Academic Programs**New Programs**

- Anthropology: Certificate in Archeology.
- Biology and Chemistry departments: The B.S. and M.S. degrees in Biochemistry and Biotechnology were approved by the Board of Curators and CBHE and will begin in Fall 2004.
- The Department of Biology and Logan College of Chiropractic developed an articulation agreement that allows freshmen to complete a 6 year (3 + 3) program resulting in a B.S. in Biology from UM St. Louis and a Doctor of Chiropractic degree from Logan College.
- Criminology and Criminal Justice: In Fall 2003 the department implemented a new professional masters option with courses on-line.
- English: A new 18-hour Certificate in Creative Writing was under consideration.
- Foreign Languages and Literature: The following course were offered for the first time: Spanish Practicum (3275); Spanish Syntax (4320); and Spanish for Business (3260).
- History: The new Ph.D. in Regional and Metropolitan Studies is under review by the UM System.
- Philosophy: The department was developing certificate programs in technical writing; bioethics; and health informatics.
- Physics and Astronomy: A new 3+4 degree option in optical biophysics was under consideration. In partnership with the School of Optometry, this will allow a student to complete a B.S. in Physics and a Doctor of Optometry degree in 7 years.
- A new Bachelor's in Liberal Studies is under review by the UM System.

Changes in Programs

The Department of Biology and the Department of Mathematics and Computer Science both made changes to the curriculum to update and improve the quality of their degree.

Outreach

- Anthropology: The department offered 4 archeological field schools through Continuing Education at Greenwood cemetery; Old North St. Louis; Oak Grove Plantation; and Cahokia Mounds.

- **Biology:** Guided by Professor Charles Granger, the department was involved in several programs with local school districts that brought students from schools that are under-resourced and underserved, as well as students who are gifted and talented, to campus to participate in programs that promoted science as a possible career path.
- **Chemistry and Biochemistry:** Several faculty members served as mentors for high school students and as teachers in the above-mentioned Biology outreach programs.
- **Criminology and Criminal Justice:** The department offers 6 courses per year at Outreach locations at St. Charles Community College and Jefferson College.
- **Economics:** The department developed a proposal with the Modern College of Business in Muscat, Oman, for a joint 3+2 BS/MA Economics degree. The program will be offered via the Internet.
- **English:** in the Winter 2003 semester, the department offered Business Writing at Pattonville H.S.; Adolescent Literature at Lindberg H.S.; and Advanced Expository Writing at Fox H.S. In the Fall 2003 semester, the department offered Business Writing at Parkway North H.S.; Adolescent Literature at Lindberg H.S.; and Advanced Expository Writing at Jefferson College and South County Education Center.
- **Foreign Languages and Literature:** The department was involved in cooperative agreements with other area universities, and is developing plans to offer off-site instruction through Continuing Education.
- **History:** The department participated in the Video Instruction Program, offering introductory course work in European and United States history. Some seminars in the History MA program were offered to the community in a blended on-line format. This approach will be expanded in the future.
- **Mathematics and Computer Science:** Several faculty consulted on courses with the Modern College of Business and Science in Oman. Mathematics 2510 was taught at Jefferson College during the Winter 2003 Semester. Professor Richard Friedlander continued to coordinate AP calculus courses with about 20 local high schools, and Professor Cezary Janikow taught computer science to Amdocs Corporation employees through Continuing Education.
- **Philosophy:** In order to accommodate teachers, the Philosophy of Science course is now offered partially in a classroom setting and partially on-line using MyGateway. Professor Ronald Munson continues to work with the Washington University Medical School on the development of the new Center for Human Values.
- **Physics and Astronomy:** The popular monthly Public Open House continued at the Richard D. Schwartz Observatory. In August, Professor Bruce Wilking promoted via radio interviews and newsprint the upcoming "Mars watch", and over 400 people went to the Observatory over the two nights of optimum viewing. Faculty made presentations at the St. Louis Planetarium to various high school, Boy Scout, and area university groups.
- **Political Science:** The department offered Introduction to Public Administration by video transmission to Mineral Area College, with several site visits each time the course was offered.
- **Psychology:** In the Winter 2003 Semester the department offered Developmental Psychology at Barnes Jewish Christian Hospital. In the Fall 2003 Semester the department offered Psychology of Victims at St. Mary's Health Center.

- Sociology: The department offered the following courses at Mineral Area College: Research Methods (3230); Research Methods Lab. (3231); Sociological Theory (3210); and Problems of Urban Community (4344). The department continued to offer the B.A. in Sociology at Mineral Area College.
- Social Work: The department offered the BSW program at both Mineral Area College and Jefferson College. Plans were under development for offering the MSW at Mineral Area College.

Student Data

Data concerning the number of graduates by degree/certificate, the number of courses /sections taught at undergraduate and graduate levels, the total student credit hours produced, and the number of majors by department are provided in Appendix 1.

L. Community Engagement

Faculty in the College are very active in community engagement. Most faculty regularly engage with members of the community in a variety of ways. These faculty activities include the following:

- Serve as directors, chairs, members and liaisons of professional associations, foundations, boards, and committees locally, nationally, and internationally.
- Help the community in various educational activities by organizing career days, speaking at schools, presenting workshops and panels, judging competitions, and serving as mentors or advisors.
- Host the public, especially K-12 students, on campus, providing presentations, panels, open houses, and workshops in their area of expertise.
- Work with government agencies, panels, boards, and police forces to share their expertise.
- Provide interviews and commentaries to newspapers, magazines, radio stations, and television stations in areas of their expertise.
- Serve as referees for journals, other publishers, and various types of funding agencies.
- Work with local companies to provide internships for students.
- Serve as elected officials in local government units, school boards, etc.

M. Gifts

Total Calendar Year 2003 Contributions to Arts and Sciences	\$477,992
Total Calendar Year 2003 Continuing Education and Outreach – A&S	\$230,374
Total	\$708,366

The College received a total of over \$708,000 in gifts in CY 2003. These include contributions to Arts and Sciences (\$477,992) and to Arts and Sciences divisions through Continuing Education and Outreach (\$230,374). The largest single donation was from Mrs. Alice Meehan in the amount of \$100,000. There were a total of 12 contributions of \$10,000 or more to programs in the College from a variety of donors. The College is proud of the success of its faculty and staff in obtaining these gifts, which help to support

the educational and research mission of this campus.

N. Critical Issues

Critical issues for the College include 1) growth of programs and student enrollment; 2) increased research, scholarship, and creative activities; 3) adequate funding; 4) Space.

Making Available New Programs and Increasing Enrollment and Retention

In order to ensure program growth the College needs UM System and CBHE approval of two new programs, the Ph.D. in Metropolitan and Regional Studies and the Bachelor's of Liberal Studies. The Ph.D. program embodies the campus mission as a public, metropolitan research university. The Bachelor's of Liberal Studies allows students to obtain a broad liberal arts education by combining two minors and/or undergraduate certificates in addition to a capstone course.

UM St. Louis has long served the interests of working students by providing an evening program; however, some students could be better served by program offerings on the weekend and by a trimester system that allows students to attend classes all year. If these ideas were implemented and the programs were under the direction of the CAS and advertised effectively, the ability to attract additional students would increase. Such growth is critical for both the CAS and the campus.

A major concern of the campus and the college is student retention. The college has made a detailed study of lower division math courses, which have a low success rate and, thus, contribute to the retention problem. Increasing student learning and academic success in these lower division math courses is one of the major goals of the college for the next two years. We are working with the math department and the instructors of these courses to identify the problems and work on solutions, which may include more use of computer technology to enhance student learning.

Other efforts by the College to ensure growth and to increase enrollment include: expanding the availability of selected degree programs through outreach; using technology for more flexible instruction, improving student retention and rate of graduation; and, revitalizing the Institute for Women's and Gender Studies under the leadership of Dr. Joyce Mushaben, which has been a priority for the college for the last two years.

Preprofessional Advising

Advising students who are interested in pre-law and in the pre-health professions is an important responsibility of the college. These students are among the best students on campus and, after completing their professional degrees, will become important members of the community. The competition for acceptance to professional schools increases every year and our students must be advised well if they are to be successful in gaining admission to these programs. The college does not currently have the resources to adequately staff preprofessional advising. Over two years ago the college submitted a

proposal to Vice-Chancellor for Academic Affairs to establish a preprofessional advising program in the college; however, that proposal has not been funded.

Increasing Research, Scholarly Productivity, and External Grant Support

Research and scholarly activities are a core responsibility of a land grant university and a major focus of faculty efforts in the College. The College is committed to supporting these efforts by hiring well-qualified faculty and encouraging and supporting their research efforts. Especially in the sciences, this support must include provision of competitive start-up funds.

Excellent departments have the greatest success in recruiting excellent new faculty. To increase external grant support for research, the College must fill vacant positions in strong departments with established records of securing such funding. Since Biology and Chemistry faculty bring in the largest amount of external grant funds in the College, it is mandatory to continue to support departments in the sciences with both positions and with space that will enable them to increase research and publication through external research funds awarded to this campus.

Budget

Rate and cost cuts and reallocations have eroded the College's fiscal base and undermined its ability to offer sufficient high-quality programs. The college deficit increases each year with externally imposed reductions to the budget. Reliance on soft money to support academic programs continues to be one of the major problems the College faces. Without rate funds to fill vacant faculty positions, the College must either hire adjunct faculty on soft money to teach the courses that were taught by these faculty or cancel them. Inadequate soft money has also forced the College to raise enrollment caps in courses, such as in mathematics, where higher class sizes jeopardize student achievement. The loss of faculty hurts the College not only in terms of fewer classes but also in lost opportunities to pursue research grants. Without a solution to the budgetary crisis, the College's ability to contribute to the research mission of the campus will diminish.

Budget problems over many years, moreover, have led to severe salary compression and the loss of excellent faculty to other institutions. Losses due to VERIP and voluntary departures for other institutions have adversely affected nearly every department in the College. In addition, the College finds it very difficult to offer competitive salaries to new faculty, particularly in the sciences, and especially in computer science. Since departments whose faculty have strong programs of research and scholarship typically attract the best new faculty, the loss of these senior colleagues can quickly erode the quality of departments.

Space

The College faces serious space problems in several areas. Biology desperately needs to expand; this need will only grow as we hire new assistant professors with very active research programs. The paucity of space for graduate students is an additional problem.

Social Work is inadequately housed in Lucas Hall. Its expansion in size to meet accreditation requirements exacerbated an existing problem. Anthropology has long faced the problem of inadequate space for its archaeological collection.

O. Future Directions

Research and scholarly activities will continue to be a major focus of faculty in the College. To support these activities the College will continue to adjust faculty effort distribution, encourage increased applications for external research funding, seek increased support for GRAs, and improve setup for new faculty. Departments may be strengthened by providing new joint faculty appointments between departments in the College and potentially with other units on campus. If finances permit, the quality of the departments will be improved by the appointment of more full-time faculty with a concomitant reduction in reliance on adjunct faculty. This increase in full-time faculty will not only improve the quality of the teaching, and thus help in the efforts of the College to retain students, but also will strengthen the College's ability to fulfill its research mission.

Over the last two years the college has increasingly supported the involvement of undergraduate students in research. Departments are strongly encouraged to make research a component of the undergraduate experience and students are encouraged to present their research at the annual Undergraduate Research Symposium. In 2003 the UM St. Louis campus joined the other campuses of the UM System in preparing selected undergraduate students to present their research to state legislators as part of Undergraduate Research Day at the Capitol. We hope to use the research symposium and the presentations at the Capitol to encourage faculty and students in their research efforts.

In the future the College expects to offer carefully selected new degree programs. These include the Ph.D. in Metropolitan and Regional Studies and the BS. and M.S. degrees in Biochemistry and Biotechnology. A Ph.D. in Biochemistry and Biotechnology is expected to follow within a few years, and a Ph.D. in Social Work also will be considered. The College has also approved a multi-disciplinary baccalaureate program, the Bachelor of Liberal Studies. It will consider developing a Master of Liberal Studies.

In both the short and intermediate term, increased revenues to this campus will depend primarily on increased enrollment. The College is committed to expanding future enrollment by providing more flexibility in the delivery of courses and programs through offerings on the weekend and in the evening and through outreach efforts that are combined with evening and weekend offerings. In addition, we hope to see the idea of a trimester, in which students attend classes all year, implemented by Fall 2005. In combination with other efforts by departments in the College, flexibility in the offering of courses and programs should help to increase enrollment as well as to improve retention of students and increase the graduation rate.

Appendix 1

UNIVERSITY OF MISSOURI - ST. LOUIS
 COLLEGE OF ARTS AND SCIENCES
 DAY UNDERGRADUATES (PER MAJOR)

<u>DEPARTMENT</u>	<u>Degree</u>	<u>May</u> <u>2003</u>	<u>August</u> <u>2003</u>	<u>Dec.</u> <u>2003</u>	<u>Total</u> <u>Majors</u>
Anthropology	BA	6	2	5	13
Biology	BA	6	3	3	12
	BS	20	5	18	43
Chemistry	BA	5	1	2	8
	BS	5	1	-	6
Crim. and Crim. Justice	BS	43	17	33	93
Economics	BA	2	1	4	7
	BS	2	-	2	4
English	BA	25	7	15	47
Foreign Lang. and Literatures	BA				
French		4	1	1	6
German		3	-	6	9
Spanish		6	1	3	10
History	BA	10	2	5	17
Mathematics & Comp. Sci.					
Mathematics	BA	2	-	3	5
Applied Mathematics	BS	na	na	na	na
Classical Applied		-	-	-	-
Computational Math		-	-	-	-
Probability & Stats.		1	-	-	1
Computer Science		na	na	na	na
Computer Science	BS	18	10	9	37
Philosophy	BA	6	2	2	10
Physics and Astronomy	BA	1	1	-	2
	BS	4	1	4	9
Polical Science	BA	11	6	8	25
Public Administration	BSPA	-	-	-	-
	BSPPA	4	1	1	6
Psychology	BA	53	14	44	111
Social Work	BSW	12	13	16	41
Sociology	BA	7	2	1	10
	BA w.SW	na	na	na	na
	BS	4	1	7	12
TOTALS		260	92	192	544

UNIVERSITY OF MISSOURI - ST. LOUIS
COLLEGE OF ARTS AND SCIENCES
EVENING UNDERGRADUATES (PER MAJOR)

		May	Aug.	Dec.	Total
<u>DEPARTMENT</u>	<u>Degree</u>	<u>2003</u>	<u>2003</u>	<u>2003</u>	<u>Majors</u>
Anthropology	BA	-	-	-	-
Biology	BA	2	-	-	2
	BS	2	1	5	8
Chemistry	BA	4	-	1	5
	BS	-	-	-	-
Criminology & Crim Justice	BS	8	2	3	13
Economics	BA	-	-	-	-
	BS	-	-	1	1
English	BA	1	1	1	3
Foreign Lang. & Lit.	BA				
French		-	-	-	-
German		-	-	-	-
Spanish		-	-	-	-
History	BA	1	1	1	3
Mathematics & Comp. Sci.					
Mathematics	BA	-	-	-	-
Applied Mathematics	BS	-	-	-	-
Classical Applied		1	-	-	1
Computational Math		-			

			-	-	-
Probability & Stats		-	-	-	-
Computer Science		na	na	na	na
Computer Science	BS	7	2	6	15
Philosophy	BA	1	-	-	1
Physics & Astronomy	BA	-	1	-	1
	BS	-	-	1	1
Political Science	BA	1	2	-	3
Public Administration	BSPA	-	-	-	-
Public Administration	BSPPA	-	-	-	-
Psychology	BA	7	2	5	14
Social Work	BSW	3	2	6	11
Sociology	BA	1	-	1	2
	BS	2	-	1	3
TOTALS		<u>41</u>	<u>14</u>	<u>32</u>	<u>87</u>

3-18-04 gcd, per Eve College

UNIVERSITY OF MISSOURI - ST. LOUIS
COLLEGE OF ARTS AND SCIENCES
MASTERS AND DOCTORATES (PER MAJOR)

DEPARTMENT	Degree	May	August	December	Total
		2003	2003	2003	Majors
Biology	MS	11	4	6	21
	PhD	0	1	4	5
Chemistry	MS	5	2	1	8
	PhD	1	3	1	5
Computer Science	MS	19	4	20	43
Criminology	MA	6	2	2	10
	Ph.D.	1	0	2	3
Economics	MA	3	2	1	6
English	MA	3	3	3	9
	MFA	6	1	2	9
Gerontology	MS	2	2	2	6
History	MA	14	6	1	21
Mathematics	MA	1	0	3	4
Applied Math	Ph.D.	0	0	0	0
Philosophy	MA	1	3	0	4
Physics	MS	0	0	3	3
	PhD	0	0	1	1
Political Science	MA	0	1	2	3
	PhD	2	0	0	2
Psychology	MA	8	1	1	10
	PhD	0	4	2	6
Public Policy Admin.	MPPA	9	3	19	31
Social Work	MSW	16	0	20	36

Sociology	MA	1	1	2	4
TOTAL:		109	43	98	
					250

3-18-04 gcd

UNIVERSITY OF MISSOURI - ST. LOUIS
COLLEGE OF ARTS AND SCIENCES
UNDERGRADUATE CERTIFICATES (PER CERTIFICATE)

		May	Aug.	Dec.	Total
<u>DEPARTMENT</u>	<u>Certificate</u>	<u>2003</u>	<u>2003</u>	<u>2003</u>	<u>Cert</u>
Interdisciplinary *	Africana St	-	-	-	-
					-
Interdisciplinary *	Afric Diasp	-	-	-	-
Biology	Biochem	-	-	1	1
Biology	Biotech	4	-	-	4
Biology	Consv Bio		1	-	1
Interdisciplinary *	E.Asian St	1	-	-	1
Interdisciplinary *	European St	-	-	-	-
					-
Inst Women & Gender Studies	Inst Wm Gn	4	2	1	7
Interdisciplinary *	Internat Bus	-	-	-	-
Interdisciplinary *	Internat St	-	-	-	-
Interdisciplinary *	Latin Am St	-	-	-	-
Interdisciplinary	Stud Relig	-	-	-	-
Interdisciplinary	Trauma St	8	1	-	9
English Department	Writ Cert	15	3	12	30
English Department	Writ w/Tec	-	-	-	-
TOTALS		32	7	14	53

*International Certificates are offered through A&S, but administered by CIS.
Also, Non-Profit is not included, since it is offered through Continuing Education.

UNIVERSITY OF MISSOURI - ST. LOUIS
COLLEGE OF ARTS AND SCIENCES
GRADUATE CERTIFICATES (PER CERTIFICATE)

<u>DEPARTMENT</u>	<u>Certificate</u>	<u>May</u> <u>2003</u>	<u>Aug.</u> <u>2003</u>	<u>December</u> <u>2003</u>	<u>Total</u> <u>Cert</u>
BIOLOGY	Biotech	2	1	-	3
	Tropical Biology	1	1	-	2
INTERDEPT	Institute Wom&Gen	-	1	-	1
CENTER INT'L STUDIES	Internat'l Studies	1	-	1	2
HISTORY	Museum Studies	9	2	1	12
PSYCHOLOGY	Psy-Clinical Respecialization	-	-	-	-
TOTALS		<u>13</u>	<u>5</u>	<u>2</u>	<u>20 **</u>

** Non-Profit is not included, since it is offered through Con't Education.

**3-18-04 gcd, per
Graduate School**

Number of courses /sections taught at undergraduate and graduate levels. (exclusive of independent study, directed study, directed readings and theses)

Level	WS2003	SS2003	FS2003	Total
Undergraduate	387	94	415	896
Graduate	122	10	114	246

Total Student Credit Hours produced (exclusive of Evening College, Video Instruction and Outreach)

Level	WS2003	SS2003	FS2003	Total
Undergraduate	38,073	8,069	42,854	88,996*
Graduate	3,883	692	3,659	8,234

* College of Fine Arts and Communication courses separate beginning WS03