
STEVEN W. RUNGE, Ph.D.
Executive Vice President and Provost
University of Central Arkansas

EDUCATION

- **Ph.D.** (August 1991) in the Ohio State Biochemistry Program, Department of Medical Biochemistry, The Ohio State University. Dissertation entitled, "Characterization of an Oncofetal Protein (OFF) and Cloning of It's cDNA".
- **B.S.** (August 1986) in Biology, Chemistry, and Human Adaptability, University of Wisconsin-Green Bay.

PROFESSIONAL APPOINTMENTS

- **Executive Vice President and Provost**, University of Central Arkansas (July 2014 – present)
 - Provost and Vice President for Academic Affairs**, University of Central Arkansas (March 2013 – June 2014)
 - Interim Provost and Vice President for Academic Affairs**, University of Central Arkansas (March 2012 – February 2013)
- **Dean**, College of Natural Sciences and Mathematics, University of Central Arkansas (July 2010 –February 2012)
 - Interim Dean**, College of Natural Sciences and Mathematics, University of Central Arkansas (August 2009 – June 2010)
- **Professor and Chair**, Department of Biology, University of Central Arkansas (July 2004 – August 2009)
 - Interim Chair**, Department of Biology, University of Central Arkansas (July 2003 – June 2004)
- **Associate Professor**, Department of Biology, University of Central Arkansas (August 1995 to June 2004)
- **Assistant Professor**, Department of Biology, University of Central Arkansas (August 1991 to August 1995)

ACCOMPLISHMENTS IN ACADEMIC LEADERSHIP ROLES

As Executive Vice President and Provost (VPAA and Interim VPAA) (2012 –Present)

- **Reorganized Division of Academic Affairs** in response to the decision to dissolve the Division of Enrollment Management and to merge many of those operations with Academic Affairs. Responsible for:
 - Six academic colleges (Business, Education, Fine Arts and Communication, Health and Behavioral Sciences, Liberal Arts, Natural Sciences and Mathematics)
 - Schedler Honors College
 - Graduate school
 - Sponsored Programs
 - Academic Advising Center
 - Athletic Academic Advising
 - Office of Student Success
 - Residential Colleges/Learning Communities
 - University College (transitional education)
 - General Education
 - Concurrent Enrollment
 - Registrar
 - Veterans Services
 - Center for Teaching Excellence
 - International Engagement
 - Library
 - Information Technology
 - Institutional Research
 - Campus-wide Assessment

- **Strategic Planning and Accreditation**
 - Provided leadership for the UCA response to being placed on monitoring status by the Higher Learning Commission (HLC) in 2010.
 - Worked as part of a team of campus stakeholders to successfully establish a comprehensive, long-range strategic plan for UCA including a budgeting process based on strategic priorities.
 - Plan accepted by the Higher Learning Commission
 - Oversaw, in collaboration with the President's Office, Executive Staff, and Board of Trustees, the establishment and refinement of our Institutional Key Performance Indicators.
 - Served on the HLC Monitoring Report Team
 - Created processes to establish a culture of continuous improvement in academic and non-academic programs (e.g. Police, Physical Plant, etc.).
 - Established a culture where our operations always stay a little "hungry" in their quest for excellence.
 - Served on the Focused Visit Report Team and site visit team.

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- Focused Visit final report from HLC indicated no deficiencies and affirmed UCA's reaccreditation through 2017.
 - Working with our HLC Compliance Steering Committee in preparation for our scheduled comprehensive visit in Fall 2016.
 - Continuing to work with our faculty and staff team on completion of our three-year commitment to the HLC Assessment Academy. Final project reports due June 2016.
 - Member of our university Strategic Planning Task Force which is actively working to build the next iteration of the UCA Strategic Plan.
 - Assisted Psychology Department with reaccreditation of Ph.D. program. Maximum reaccreditation period (7 years) was granted.
 - Assisted Nursing Department with reaccreditation. Maximum reaccreditation period (10 years) was granted.
 - Transitioned Academic Affairs from paper-based annual reporting for faculty, departments and colleges to electronic reporting through *Digital Measures*.
 - **Developed university enrollment management plan** focused on domestic recruitment, international recruitment, student success, retention, and graduation.
 - Oversaw increase in freshmen enrollment and graduate school enrollment. Overall campus enrollment increased in Fall 2013 for the first time in five years with continued growth in Fall 2014 and Fall 2015.
 - Developed One-Stop-Shop. Renovations and relocations have been completed to consolidate Admissions, Academic Advising, Financial Aid, Athletic Academic Advising, Registrar, and Veteran's Services in a central location.
 - Implemented stronger undergraduate admission standards to attract better prepared students and increase retention. Changes effective Fall 2015, Fall 2016 and Fall 2018.
 - Secured funding to hire ten additional professional advisors for the Academic Advising Center. These professional advisors are responsible for the primary academic advising of freshman and sophomore students and incoming transfer students. Advisors are assigned to the academic colleges to assist with the transition to faculty advisors and to conduct graduation audits for undergraduate students.
 - Established a new residential college to focus on health promotion and wellness and reorganized two older residential colleges into one unit to streamline operations and improve student success.

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- Purchased and implemented *DegreeWorks* as a tool for students and advisors to efficiently and effectively track progress toward degree completion and to easily explore degree options at the undergraduate and graduate levels.
 - Recognized the importance of growing our population of highly qualified transfer students. Established the position of “Director of Transfer Services” to focus full-time on the establishment of degree articulation agreements with two-year colleges within and outside of Arkansas. Director will also work to develop reverse transfer agreements and dual-enrollment agreements.
 - As of Fall 2015 we have signed 2+2 articulation agreements with 19 of 22 two-year colleges in Arkansas (we had two agreements in July 2014). With our two primary partners we have articulated over 50% of our baccalaureate degree programs. We are adding approximately 15 new agreements per quarter.
 - Currently building transfer course database and web interface for prospective students and advisors.
 - Developed summer bridge programs to improve success and retention of new students and students who need transitional/remedial coursework.
 - Science and Mathematics Boot Camp modeled after the Louisiana State University program developed by Drs. Bill and Sheri Wischusen.
 - Read for Success (transitional)
 - Math Academy (transitional)
 - Write to Succeed (transition)
 - Recognized the impact of social media on recruitment, engagement, and student success. Re-engaged admissions, advising, international engagement in social media including Twitter, Facebook, and Instagram.
 - Purchased the Banner *Recruiter* module to significantly upgrade our software capabilities for domestic and international student application and admissions at both the undergraduate and graduate levels.

Program Changes and Innovations

- Revised general education program for the first time in over 20 years
 - Accomplished through collaboration with our Director of General Education and a faculty-led team.
 - New UCA Core launched Fall 2013 (38 hour lower-division).
 - Upper-division core complete for all degree programs in Spring 2015.
 - Helped UCA meet Higher Learning Commission and state requirements.

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- Initiated identification and development of ***Programs of Distinction*** to recognize academic and non-academic programs that surpass excellence. Programs known nationally exemplary work are being recognized.
 - Facilitated the implementation of a campus-wide centralized scheduling system. Beginning in November 2015, all campus spaces that can be reserved will be managed through our *Event Management System* housed and managed in the Office of the Registrar.
 - Collaborated with the Office of Human Resources and Risk Management on the implementation of the *PeopleAdmin* applicant tracking system (functional Fall 2014).
 - Transitioned campus to a *GoogleApps* for Education campus (Academic year 2014-15).
 - Implemented campus-wide service-learning program. Program has served over 1500 students in its first two years.
 - Incentivized the College of Business to complete the transition of the MBA program to on-line delivery. Implemented beginning Fall 2014.
 - Added a multi-disciplinary BBA in Innovation and Entrepreneurship and a BS in Information Science.
 - Added BS/BA programs in Anthropology and Criminology.
 - Assisted Department of Nursing in the establishment of a Doctorate of Nursing Practice program. Inaugural class accepted June 2014.
 - Facilitated the move of the Department of Geography from the College of Liberal Arts to the College of Natural Sciences and Mathematics.
 - Facilitated the move of the linguistics program from the Department of Writing (College of Fine Arts and Communication) to the Department of World Languages, Literatures and Cultures (College of Liberal Arts). Department renamed “Department of Languages, Linguistics, Literatures and Cultures.”
 - Initiated a reorganization of the departments in the College of Fine Arts and Communication. Discussions are ongoing through the 2015-16 academic year.
 - Increased the budget for Faculty Development grants in the Instructional Development Center to allow for more faculty travel.
 - Initiated the “Adjunct Academy” through the Instructional Development Center to provide professional development for our part-time faculty members.

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- Worked closely with the Chief Technology Officer to develop a campus-wide Technology plan.
 - Working with deans, department chairs and the Office of the Registrar on establishing a two-year, rolling class schedule for the campus. This will assist in planning for students and faculty.
 - Launched “UCA Online” initiative to expand educational opportunities to local, national, and international students. Initial undergraduate program offerings include: Nursing (RN to BSN), Professional Studies-Health and Safety (BS), and General Business (BBA). Existing graduate programs are included as part of UCA Online. Two to three new programs are anticipated to be added each academic year.
- **Budget Management**
 - Initiated the strategic reallocation of positions within the division through attrition. Positions are allocated based on need and decisions are data-informed. Added:
 - Institutional Research analyst
 - Sponsored Programs grant writer
 - Chief Technology Officer
 - Multiple faculty positions in growing programs.
 - Implemented plan to allow colleges to manage authorized salary dollars “in bulk” rather than by individual positions. This will allow colleges to more strategically use budgeted amounts to hire the best faculty.
 - Built consensus for a plan to allocate a standard amount of maintenance and operations funding based on the number of full-time faculty in a department.
 - Worked to provide a cost-of-living salary adjustment and merit/equity adjustments for faculty and staff over the past three years.
 - Provided \$134,000 in additional faculty travel money to departments in Fall 2014; \$200,000 provided in collaboration with the President in Fall 2015.
 - Returned \$2-3 million per year from Academic Affairs budget to help build university strategic reserves.
 - Established \$1.2 million construction and renovation fund for Academic Affairs projects.
 - Recognized as a capable budget manager by the Vice President for Finance and Administration. Academic Affairs is the only Division at UCA that has full autonomy over its annual budget (~\$85 million).

- **Development and Fund-Raising**

- Partnered with officials in state government and on our campus to secure \$915,000 (4 yrs of support) from the National Math and Science Initiative (NMSI) to support our UTeach replication program (UCA STEMteach).
- Worked to raise \$250,000 toward the construction and maintenance of a new planetarium.
- Worked as part of a team to successfully establish an endowment for the College of Business deanship beginning with a \$250,000 donation.
- Worked with directors at Louisiana Tech University (Dr. Galen Turner) to secure funding of \$150,000/year for three years from the Department of Homeland Security for establishing a “Cyber Discovery” replication program for high school students and teachers starting summer 2014.
- Assisted in development of a gift of over \$3 million to create an economics research and learning center in the College of Business. Opened Fall 2014.
- Facilitated development of a memorandum of understanding between the UCA College of Business and Dassault Falcon Jet, Corp. to provide executive and management training to the full leadership array for the corporation. Falcon Jet will be compensating faculty and making donations to the UCA Foundation to support activities in the College of Business.
- Laid the groundwork for a \$300,000 donation for undergraduate student research in environmental science, geography and physics from Southwestern Energy Co.

- **Strengthened International Engagement**

- Assisted in the establishment of the *Leaders of the World* (LOTW) conference on the UCA campus. Inaugural conference held March 2014 with leaders attending from Africa, Asia, Europe, Latin America, and North America.
- *Leaders of the World-Judicial Program* held in September 2014 at UCA.
- *LOTW Culture and Language* immersion programs held at UCA. Program for 30 international students completed in August 2014 and August 2015. Program for 35 professionals completed in January 2015. Includes an intensive English component along with multiple cultural events.
- *LOTW April 2015* at UCA. Leaders from across the globe will attend.
- *LOTW (Brazil) 2016* Scheduled for July 2016 at Varginha, Brazil.

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- Strengthened our Confucius Institute (the only CI in Arkansas) and helped maintain our *Teach Chinese Arkansas* program through collaboration with the Arkansas Department of Education and the U.S. Department of State.
 - Established Intensive English Programs for professionals from partner countries.
 - Refined our *Global Education Project (GEP)*, which provides a one or two semester cultural and academic experience for international students.
 - Continuing to establish sustainable partnerships with international high schools, colleges and universities to bring degree-seeking students to UCA.
 - Working with International Engagement staff and faculty to broaden opportunities for students to gain a study abroad experience through short-term faculty-led programs or semester exchange programs. Collaborating with the President on raising private funds to support more robust scholarships for these programs.
- **Shared Governance and Student Support**
 - Worked as a member of the Faculty Handbook Committee to complete substantial revisions of the Faculty Handbook including clarification of ranks for tenure-track and non-tenure-track faculty.
 - Led effort, through collaboration with faculty senate, to convert long-serving, visiting faculty positions to continuing faculty positions. Multiple positions were converted during the 2012-13 and 2013-14 academic years.
 - Attended virtually all meetings of the Faculty Senate to deliver reports and answer questions. Held semi-monthly lunch meetings with the Faculty Senate Executive Committee to discuss concerns and provide activity updates.
 - Established a methodology for distributing faculty equity dollars based on CUPA national median salaries by discipline. Goal is to achieve equity at all ranks in all disciplines. Approach has been endorsed by the Faculty Salary Equity Committee.
 - Collaborated with the Council of Deans and the faculty to secure Board approval for a 50,000 sq. ft. expansion of the university's science building. Project budgeted at \$17.5 million. Construction is underway with an anticipated completion in summer or early fall of 2016.
 - Supported Microsoft Imagine Cup team from our Computer Science Department that represented the United States against 35 other teams in the World Citizenship category of the competition at the finals in St. Petersburg Russia (2013). About 500,000 students worldwide entered the competition.

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- Established biannual meetings of the Council of Deans with the Student Government Association.
 - Initiated annual planning and assessment retreat for Academic Affairs.
 - Collaborated with UCA President to hold joint meetings of the Council of Deans and the President's Executive Staff
 - Worked with the Faculty Senate on completion of a faculty workload (teaching load) analysis (completed Fall 2015). Analysis of the final report will continue during the 2015-16 academic year.
 - **Completed successful searches** for the following positions:
 - Dean of the Graduate School
 - Dean of the College of Health and Behavioral Sciences
 - Dean of the College of Natural Sciences and Mathematics
 - Chief Technology Officer
 - Registrar
 - Director of Academic Advising Center
 - Director of Athletic Academic Advising
 - Director of University College
 - Director of Instructional Development Center
 - Director or Institutional Research
 - Associate Vice President for International Engagement
 - Associate Provost for Instructional Support
 - Director of General Education (UCA Core)
 - Dean, College of Business and Dean, College of Fine Arts and Communication appointed following interim year. Appointments made at the request of the faculty and following a rigorous, inclusive process of faculty input.
 - Dean, College of Education
 - Director of Online Learning (in association with the launch of UCA Online)
 - Director of Admissions and Enrollment Services
 - Numerous department chair, faculty and staff positions

As Dean and Interim Dean, College of Natural Sciences (2009 – 2012)

- **Strategic Planning and Accreditation**
 - Redesigned annual, two-day College leadership planning and assessment retreat. Established one-day, mid-year retreat for the leadership team.
 - Developed, with the leadership team, one-year, five-year, ten-year and twenty-year goals for the college. This helped us formalize the vision for the college.

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- Coordinated establishment of the mission and vision statements for the UCA STEM Institute. This STEM Center, which serves K-12 schools, is recognized as the strongest in Arkansas.
 - Developed college marketing and recruitment plan that included coordinated high school visits and branded marketing materials.
 - Established a monthly college newsletter that was distributed electronically to all campus stakeholders and college alumni.
 - Received reaffirmation of ABET Accreditation of BS degree in Computer Science.
 - Used ABET method of assessment as a model for establishing assessment and continuous improvement programs for all academic programs in the college. Led two faculty teams to ABET assessment workshops in Dallas and Houston, TX.
- **Program Changes and Innovations**
 - Oversaw the creation of the STEM Residential College. Involved many campus stakeholders from Learning Communities, University Police, Physical Plant, Housing, and the Office of the President.
 - Guided the process of establishing the UCA STEMTeach program, a replication site for the UTeach program initiated at the University of Texas-Austin. UCA STEMTeach is designed to expand the pipeline of students pursuing teaching credentials in the STEM disciplines.
 - Secured a portion (~\$200,000) of UCA's ARRA (American Recovery and Reinvestment Act) funding to build a new research greenhouse.
 - Assisted in the development of the "Science and Society in Rwanda" study abroad program that sends 15-20 students and 2 faculty members to Rwanda each spring to learn about the culture and perform service learning projects related to elementary science education.
 - Implemented an ACS-certified Biochemistry track in the BS in Chemistry degree.
 - Established Computer Science Department 5-year BS/MS degree program.
 - Worked with the College of Business and the College of Fine Arts and Communication to create the EPIC[®] Residential College. EPIC[®] (Entrepreneurship, Public Scholarship, Innovation, Community Engagement) is designed primarily for sophomore, junior, and senior students and engages them in multidisciplinary projects that can lead to new business development. An important goal is building public communication skills in these students. Established partnerships with local businesses in this effort.

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- Coordinated with the UCA Foundation to establish UCA as a site for “Girls of Promise/Girls of Power in STEM” through which eighth grade girls engage in activities and are inspired to pursue education and careers in the STEM disciplines.
 - **Development and Fund-Raising**
 - Successfully cultivated, in collaboration with our Division of Advancement, a \$250,000 donation to establish the *Acxiom Professor of Computer Science*.
 - Helped secure private funding from Southwestern Energy (\$250,000 over ten years) and state funding (\$75,000/year) for the annual Southwestern Energy Arkansas State Science and Engineering Fair.
 - Assisted Computer Science Department in securing National Science Foundation funding (\$325,000) for the establishment of the REU program, “HIT at UCA” (Health Information Technology).
 - Collaborated with Institutional Advancement to secure a \$25,000 Walker Foundation grant to support the science education program. Funding used to start the UCA STEMteach program.
 - Established a partnership with the Department of Management Information Systems (College of Business) and our Computer Science Department for offering a Summer IT Camp for high school students. Helped secure funding from Acxiom Corp. to sponsor camp.
 - Enhanced the focus of women students in computer science. Established privately-funded scholarships from a private foundation donor (\$1,000) and a private individual (\$50,000) who is a UCA alumnus.
 - In first year as dean (2009-10), college faculty received 45 external grant awards
 - **Shared Governance, Faculty, Staff, and Student Support**
 - Worked with college representatives on Faculty Senate to establish a third rank (Senior Lecturer) for non-tenure-track faculty members at UCA.
 - Worked with Faculty Senate President, Staff Senate President, and Student Government Association President to design a “Children in the Workplace” policy for the University. Policy was adopted by the Board of Trustees.
 - Established “Dean’s Advisory Council’ consisting of one faculty member from each department. Council advised me on matters of importance to the faculty and worked on special projects for the College.

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- Redesigned the annual Faculty Performance and Planning documents for the College.
 - Developed college-level guidelines for tenure and promotion
 - Rewrote college by-laws
- Negotiated agreement with Arkansas Department of Education for a UCA mathematics faculty member to be the lead designer for the Common Core State Standards implementation for the state of Arkansas.
 - During my third year as dean, faculty in the College of Natural Sciences and Mathematics received all three university-wide faculty awards for excellence (Teaching Excellence; Research, Scholarship and Creative Activity; Service).
 - Held annual meeting with all college staff to listen to their concerns.
 - Funded STEM Residential College using existing college resources.
 - Secured a 5-year moratorium on development in the 17.5 acre Jewel Moore Nature Reserve on the UCA campus from the UCA Board of Trustees.

As Chair and Interim Chair, Department of Biology (2003 – 2009)

- **Program Changes and Innovations**

- Established “Clusters of Excellence” within the department that drove resource allocations including redefining faculty positions when faculty retired. Targeted excellence as opposed to mediocrity; depth as opposed to breadth.
- Grew Biology graduate program from approximately 12 students to 28 students. 9 graduate teaching assistantship (GTA) positions expanded to 18 GTA positions and 25 fully funded graduate assistantship positions (7 grant funded).
- Collaborated with faculty on rewriting our non-majors biology laboratory manual: “Biology 1400; Biology for General Education Lab Manual. Peppers, K.C., Dussourd, D.E., Hirrel, M.C., Miller, J.D., Runge, S.W., and Waggoner, B.M. Hayden-McNeil. Updated annually.
- Built a 2-year rolling academic schedule to aid students and faculty schedules.
- Redesigned and expanded our student internship program to include more opportunities with non-profit organizations and medical practices.
- Redesigned the upper-division curriculum for the BS in Biology.
- Successfully managed a significant enrollment increase (53% increase from 2002-2008).

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- Doubled summer enrollment through strategic increases in course offerings.
 - **Grants and Budget Management**
 - Increased grant activity substantially, with increasing numbers of assistantships included in the funded projects (2003: ~\$50,000; 2008: >\$450,000) annual grant expenditures.
 - Secured funds to provide tuition/fee waivers for graduate teaching assistants.
 - Updated computing equipment in teaching laboratories.
 - Received funding for renovating selected teaching and research spaces.
 - Increased number of successful student research and travel awards to undergraduate and graduate students.

COMMUNITY SERVICE ACTIVITIES

- Arkansas STEM Coalition Board of Directors. Chair, Jan. 2013-Dec. 2014. Vice-Chair, Jan. 2011-Dec. 2012. Immediate Past Chair, Jan. 2015 – present. Board Member, 2009 – present.
- University of Central Arkansas/East China Normal University, Confucius Institute Board of Directors. Board Member, 2012 – present.
- UCA/Conway Regional Healthcare Education Foundation, Inc., Board Member, 2011-present
- Arkansas Preschool⁺/Lifelong Learners, Inc. Board Member, 2011-present
- Arkansas INBRE (Innovation Network for Biomedical Research Excellence; NIH) Steering Committee (UCA Campus Representative). 2003-present.
- Board of Education, Mayflower Public Schools, Mayflower, AR. 2000 – 2010. President, 2004-07; 2009-2010. Vice President, 2003-04; 2007-2009.
- Director - Arkansas Science Talent Search (In association with the national Westinghouse/ Intel Science Talent Search), 1995 - 1998.
- Judging Committee, Arkansas Science Talent Search, 1999 (chair), 2000.
- Mayflower Affiliate of AGATE (*Arkansans for Gifted and Talented Education*), Founding member, 2006-present. Vice President, 2008-2011.
- K-5 classroom “teacher” for projects including “microbial cultures,” “adaptations,” and “energy transformations.”

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- Instructor – UCA Junior University (Residential summer program for at-risk 5th grade students to encourage them to go to college), 2001 – 2007
 - Judge, Arkansas State Science Fair, multiple years through 2011.
 - Worker, Habitat for Humanity of Faulkner County, AR (1998-2000)

ACCOMPLISHMENTS IN SELECTED SERVICE ACTIVITIES

- **As Chair, Arkansas STEM Coalition (2013 – 2014)**
 - Led policy summit on STEM education and establishment of a knowledge-based economy for Arkansas. Attendees included the Governor's office; Commissioner, Arkansas Department of Education; Director, Arkansas Department of Higher Education; business and industry leaders; and education leaders. This meeting was held in preparation for the 2015 legislative session.
 - Lobbied for inclusion of computer science in K-12 curriculum and course offerings. By direction of Gov. Hutchinson, all Arkansas high schools are now offering computer science courses starting Fall 2015.
 - Convene quarterly meetings for education, business, and private sector leaders in STEM fields from across Arkansas.
 - Hosted first three meetings of engineering deans and employers of engineers in Arkansas. Group is now convening on a regular basis.
 - Developing plans to recruit high-achieving students who have left Arkansas to come back and contribute to the economy.
 - Planned and hosted first meeting of the computer science deans/chairs and business and industry representatives who employ computer science graduates.
 - Initiated plan for STEM education outreach to elementary students and teachers to engage more students in these disciplines.
 - Hosted the first regional meeting of the STEM Coalition at the University of Arkansas, Monticello. Subsequent meetings held in Magnolia, AR and Fort Smith, AR.
- **As Member, Mayflower Public Schools, Board of Directors (Chair and Vice-Chair) (2000-2010)**
 - Won two school board campaigns and two millage campaigns
 - Increased scholarship awards for graduating seniors from less than \$400,000 to over \$1.4 Million.

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- Renovated and expanded the High School, Elementary School and Middle School campuses. Formulated budget for Middle School project (\$5 Million) that allowed completion without a need for a millage increase.
 - Coordinated and conducted a successful search for a new superintendent.
 - Raised expectations for student achievement. Helped integrate Advanced Placement coursework into the curriculum.
 - Built new softball field and rebuild baseball field. Installed modern lighting.

AWARDS

- Distinguished Service Award – Department of Family and Consumer Sciences, Nutrition and Interior Design, University of Central Arkansas (2015)
- Arkansas Governor’s Volunteer Award (2010)
- Community Spirit Award (Citizen of the Year) – Mayflower, AR Chamber of Commerce (2008)
- “Master Board Member” award presented by the Arkansas School Board Association, December 2005.
- Finalist -University of Central Arkansas Research, Scholarship, and Creative Activity Award (1999, 2000, 2003, 2004)
- Finalist - University of Central Arkansas Teaching Excellence Award (1999)
- Finalist - Gamma Beta Phi Teacher of the Year (1997, 1998)

PROFESSIONAL ASSOCIATIONS

- American Association for the Advancement of Science
- American Association for Cancer Research
- Arkansas Academy of Sciences
- Project Kaleidoscope - Faculty for the 21st Century. Class of 1998.
- National Science Teachers Association
- National Association of Biology Teachers

TEACHING INTERESTS and EXPERIENCE

- Introductory Biology (majors and non-majors)
- Molecular Biology
- Cell Biology
- Proteins and Enzymes
- Biochemistry

RESEARCH INTERESTS

- Role of Intracellular pH in apoptosis (programmed cell death) in cancer cell survival
- Development of interactive learning tools for the science classroom and teaching laboratory

GRANTS

External

- Arkansas Science and Technology Authority grant - "Molecular and Biochemical Regulation of Apoptotic Cell Death by the Baculovirus Gene Product, p35, and Intracellular pH" (\$35,400; \$23,950 UCA match; 1994-95).
- National Science Foundation - Academic Research Infrastructure (ARI) grant (As Senior Personnel, Dr. Stephen R. Addison, PI)- "Renovation of the Lewis Science Center's Research Facilities" (\$351,280; August, 1995).
- Arkansas Space Grant Consortium (NASA) Faculty Enhancement Award (\$5000; February, 1996)
- National Science Foundation - Instrumentation and Laboratory Improvement (NSF-ILI) Grant. "Integration of Investigative Molecular Biology Laboratory Exercises into the Undergraduate Curriculum". (\$34,591-NSF; \$34,591-UCA match; August 1998).
- National Science Foundation – Major Research Instrumentation Program (NSF-MRI) Grant. "Acquisition of a Laser Scanning Confocal Microscope for Natural Sciences Research and Teaching – an MRI/RUI Proposal." Runge, S.W. (PI), Clancy, B. (Co-PI), Murray, J.A. (Co-PI), Ruehle, J. (Co-PI), and Senior Investigators (Choinski, Dussourd, Hirrel, Moran, Pierce, Waggoner). (\$225,155-NSF; \$53,638-UCA match; June 2002 – May 2006).
- National Science Foundation Major Research Instrumentation Program. "Acquisition of an Analytical Flow Cytometer for Natural Sciences and Teaching"(B. Rowley (PI), S.W. Runge (Co-PI). \$84,452; August 2009)
- National Center for Research Resources (National Institutes of Health) IDeA program. "Partners for Biomedical Research in Arkansas." Proposal submitted by UAMS (L. Cornette, PI). Alteration and Renovation sub-proposal (S. Runge, Project Leader). "Construction of two biomedical research laboratories and acquisition of a large capacity autoclave." (\$178,860-NIH; \$4998-UCA match; proposal funded June 2010).

Internal

- University of Central Arkansas Research Council grant - "Investigation of the Early Transcriptional Events Upon Induction of Apoptosis (Gene Directed Cell Death) in Cultured Mammalian Cells" (1992-94).
- UCA Summer Research Stipend (1994; 1995; 1996; 1997; 1998; 2000)
- UCA Faculty Development Award - "A Workshop on Advanced Cell Culture Concepts and Techniques" (April, 1994).
- UCA Research Council Grant. "Investigation of the Role of Intracellular pH in Regulating Fibroblast Apoptosis" (1994-95).
- UCA Research Council Grant. "Modulation of Intracellular pH as a Mechanism for Killing Tumor Cells". (1996-97).

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- UCA Research Council Grant - “Intracellular Acidification and Apoptotic Cell Death of Human Breast Cancer Cells” (Spring 1999).

GRANTS TO MENTORED STUDENTS

- *Arkansas Science Information Liaison Office (SILO) Undergraduate Research Fellowships.*
 - Jon L. Wilkerson (1994-95)
 - Brandi R. Humes (1995-96)
 - Brad A. Clark (1996-97)
 - Dena P. Cantrell (1997-98)
 - Sarah Holloway 1998-99)
 - Shane Melton, Cory Morgan, and Melissa Johnson (2000-01)
 - Nelly Norrell (2001-02)
 - Kyla Shelton and Jeff Steele (2002-03).
 - Brandon Walser (2003-04)
 - Cody Cook (2004-05)
 - Kyle Basham (2005-06)
 - Anthony Manning (2006-07)
 - Tara Havens (2008-09/2009-10)
- *Arkansas Space Grant Consortium Undergraduate Student Scholarship*
 - Alexandra Ebie (1996)
 - Kimberly Burnette-Deaton (1996)
 - Brad A. Clark (1997-98)
- *Arkansas Space Grant Consortium Graduate Student Fellowship*
 - James P. Irwin (1996, 1997)
 - D. DeLynn Holleman (1998)
 - Kelly C. Johnson (2000).
- *National Science Foundation (NSF) EPSCoR Undergraduate Research Fellowship*
 - Kevin McElhanon (2008-09)

AWARDS TO MENTORED STUDENTS

- Brad A. Clark (1998). **Second Place – Undergraduate Student Presentation - Life Sciences.** Eighty-second Annual Meeting of the Arkansas Academy of Science
- D. DeLynn Hearn (2001). **First Place – Graduate Student Poster (Overall).** Eighty-fifth Annual Meeting of the Arkansas Academy of Science
- Nelly P. Norrell (2002). **First Place – Undergraduate Student Presentation – Life Sciences.** Eighty-sixth Annual Meeting of the Arkansas Academy of Science

GRADUATE THESES SUPERVISED

- Kathleen M. Boyle, M.S. - The Effect of pH and Manipulation of PKC and Na⁺/H⁺ Antiporter on Fibroblast Apoptosis. May 1995.
- Brent D. Chavis, M.S. - Expression of the Baculovirus Apoptotic Repressor, P35, in Murine Fibroblast and Lymphoma Cells. August 1995.
- James P. Irwin, M.S. - Intracellular Acidification Induces Apoptosis in C3H-10T1/2 Cells in the Presence or Absence of the Baculovirus Anti-Apoptotic Protein P35. August 1997.
- D. DeLynn Hearn, M.S. - Intracellular pH Regulation and Apoptosis: Comparisons Between Sprague-Dawley Rat and *Aplysia californica* Intestinal Epithelia. August 2002.
- Kyla R. Shelton, M.S. - Quantification of NHE and V-ATPase mRNA Levels in MCF-7 Tumor Cells (August 2006).
- Josiah H. Moody, M.S. - Apoptotic resistance and modulation of the unfolded protein response in human breast cancer (MCF-7) cells during adaptation to a tumor-like microenvironment (May 2009)
- Alyssa Papineau, M.S. - The Role of the Cytoskeleton in MCF-7 Cell pH Regulation (co-mentored with Dr. Kari Naylor. All but thesis complete)

UNDERGRADUATE HONORS THESES SUPERVISED

- Layne L. Jones, B.S. - The Incidence of Apoptosis: A Possible Explanation of Use to Control Human Lifespan and the Ethical Principles Behind It. UCA Honors College. May 1996.
- Brad A. Clark, B.S. - Differential Gene Expression in C3H-10T1/2 Cells Undergoing Intracellular Acidification-Induced Apoptosis. UCA Department of Biology, May 1998.
- Alexandra A. Ebie, B.S. - Identification of Phosphatidylserine Translocation as a Means of Apoptosis Assessment in C3H-10T1/2 Cells. UCA Department of Biology, Dec. 1998.
- Jeffery Steele, B.S. - Is Intracellular Acidification Necessary for Apoptosis Induced by Ultra-Violet Light? UCA Department of Biology, May 2003.
- Jared Beavers, B.S. – The Faces of Altruism. UCA Honors College. May 2005.
- Andres Chang, B.S. - Cancer Research: A Model of the Evolution of Science. UCA Honors College. May 2006.
- Kyle Basham, B.S. – From Molecules to Medicine Cabinets: Drug Development Through its Various Stages. UCA Honors College. May 2007.

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- Anthony Manning, B.S. – So Others May Live: Methods and Reasoning in Chemotherapy Research. UCA Honors College. May 2008.
 - Ashley N. Long, B.S. Breast Cancer: Problems, Promise, & Protons. UCA Honors College. May 2014

PUBLICATIONS

1. Runge, S.W., Larroya, S., Schumm, D.E. and Webb, T.E. Developmental Changes in Expression of a Tumor-associated Protein in the Rat Fetus. *J. Cell. Biochem.* 41:135-137. 1989.
2. Runge, S.W., Larroya-Runge, S., Schumm, D.E. and Webb, T.E. Development and Use of Monoclonal Antibodies Against an Oncofetal Protein Associated With Carcinogenesis and Tumorigenesis. *Immunological Investigations* 20(3):269-286, 1991.
3. Stromberg, P.C., Grants, I., Schumm, D.E., Runge, S.W., Larroya-Runge, S.N., Koolemans-Beynen, A., and Webb, T.E. Expression of an Oncofetal Protein (OFP) in Rat and Human Leukemia Cells. *Leukemia Res.* 15:427-433. 1991.
4. Runge, S.W. Rapid Analysis of Igt11 Fusion Proteins Without Subcloning or Lysogen Induction. *BioTechniques.* 12(5):630-631. 1992.
5. Boyle, K.M., Irwin, J.P., Humes, B.R. and Runge, S.W. Apoptosis in C3H-10T1/2 Cells: Roles of Intracellular pH, Protein Kinase C, and the Na⁺/H⁺ Antiporter. *J. Cell. Biochem.* 67:231-240. 1997.
6. Moran, W.M., Wilson, K., Denton, J., Williams, M., and Runge, S.W. A New, Simple, Inexpensive Method for Teaching how Membrane Potentials are Generated. *American Journal of Physiology -Advances in Physiology Education* 22(1): S51-S59. 1999.
7. Runge, S.W. and Haley, U.B. Intracellular pH Changes in the Initiation and Progression of Apoptosis. *Recent Res. Devel. Cell. Biochem.* 1:177-192. 2003. (*Invited Review*)
8. Keeton, R., Runge, S.W. and Moran, W.M. Alanine-Stimulated Exocytosis in *Aplysia* Enterocytes: Effect of Sodium Transport and Requirement for Actin Filaments. *Journal of Comparative Physiology B* 174: 129-138. 2004.
9. Keeton, R, Runge, S.W. and Moran, W.M. Constitutive Membrane Recycling in *Aplysia* Enterocytes. *Journal of Experimental Zoology* 3001A: 857-866. 2004.
10. Runge, S.W., Shelton, K.S., Melton, S., and Moran, W.M. Maintaining the Ionic Permeability of a Cellulose Ester Membrane. *Journal of Biochemical and Biophysical Methods* 64(3): 200-206. 2005.

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11. Runge, S.W., Hill, B.J.F. and Moran, W.M. A simple classroom teaching technique to help students understand Michaelis-Menten kinetics. *Cell Biology Education (CBE) - Life Sci Educ.* 2006 Winter; 5(4):348-52.

UNPUBLISHED MANUSCRIPTS

1. Irwin, J.P., Horton, L., Ebie, A.A. and Runge, S.W. Intracellular Acidification Induces Apoptosis Independent of P35 Expression: Evidence for a pH Threshold for Apoptotic Induction in C3H-10T1/2 cells.
2. Nixon, M., Runge, S.W., and Moran, W.M. Use of the electrical resistance method to characterize the water transport properties of the apical membrane in the *Aplysia* intestine.

INVITED PRESENTATIONS

“Apoptosis and its Broad Applications in Gene-Directed Cell Death.” Department of Biochemistry, Postgraduate Institute of Medical Education and Research, Chandigarh, India. June 20, 1992.

“Apoptosis and Intracellular pH.” University of Wisconsin-Green Bay, November 24, 1998.

“What do you do as a School Board Member?” *In: School Board Service: a mechanism for STEM professionals to help enhance K-12 education (Moderated by Dr. J. Miller, Michigan State University).* Annual Meeting of the American Association for the Advancement of Science. Boston, MA. February 2008/San Francisco, CA. February 2009.

“The Deanship: Myth and Reality in the Early Years.” National Conference of Academic Deans, University of Central Arkansas, Conway, AR, July 29-31, 2010.

“To Be or Not to Be an Interim.” National Conference of Academic Deans, University of Central Arkansas, Conway, AR, July 28-29, 2011.

“Starting a STEM Residential College.” National Conference of Academic Deans, University of Central Arkansas, Conway, AR, July 28-29, 2011.

ABSTRACTS PRESENTED

The abstracts listed below include only those that were presented at State, National and International meetings. Several projects from my laboratory are also presented each spring at the UCA College of Natural Sciences and Mathematics Student Research Symposium.

1. Larroya, S., Schumm, D.E., Runge, S.W. and Webb T.E. Evaluation of an Oncofetal Tumor Marker Protein by Use of Specific Monoclonal Antibodies. American Association for Cancer Research. San Francisco, CA. May 24-27, 1989.
2. Schumm, D.E., Larroya, S., Runge, S.W. and Webb, T.E. Characteristics of an Oncofetal Tumor Marker Protein. American Association for Cancer Research. Washington D.C. May 23-26, 1990.

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3. Runge, S.W., Larroya-Runge, S.N., Webb, T.E. and Schumm, D.E. Characterization of an Oncofetal Protein (OFP) and Cloning of It's cDNA. Federation of American Societies for Experimental Biology. Atlanta, GA, April 1991.
 4. Boyle, K.M. and Runge, S.W. Analysis of the Role of Intracellular Acidification in Fibroblast Apoptosis. American Association for Cancer Research. Toronto, ON, Canada. March 17-23, 1995.
 5. Wilkerson, J.L. and Runge, S.W. *Subcellular Localization of the Insect Virus Apoptotic Regulatory Protein, p35, in Mouse Cells Expressing the Transgene.* SILO Undergraduate Research Conference, University of Central Arkansas, Conway, AR, October 1995.
 6. Ebie, A.A. and Runge, S.W. Modulation of Intracellular pH as a Mechanism for Enhanced Cell Killing by Cisplatin. Third Annual Arkansas Undergraduate Research Conference, Henderson State University, Arkadelphia, AR. April 19-20, 1996.
 7. Humes B.R. and Runge, S.W. Assessing the Roles of Protein Kinase C and the Plasma Membrane Na⁺/H⁺ Antiporter in S49.1 Cell Apoptosis. Third Annual Arkansas Undergraduate Research Conference, Henderson State University, Arkadelphia, AR. April 19-20, 1996.
 8. Irwin, J.P., Clark, B.A. and Runge, S.W. Determination of intracellular acidification as a late event in C3H-10T1/2 cell apoptosis. American Association for Cancer Research, San Diego, CA, April, 1997.
 9. Runge, S.W., Boyle, K.M. and Irwin, J.P. "Apoptosis in C3H-10T1/2 Cells: Roles of Intracellular pH, Protein Kinase C, and the Na⁺/H⁺ Antiporter". Arkansas Space Grant Symposium, Fayetteville, AR, April 1997.
 10. Irwin, J.P. and Runge, S.W. "Determination of Intracellular Acidification as a Late Event in C3H-10T1/2 Cell Apoptosis". Arkansas Space Grant Symposium, Fayetteville, AR, April 1997.
 11. Clark, B.A. and Runge, S.W. Differential Gene Expression in C3H-10T1/2 Cells Undergoing Intracellular Acidification-Induced Apoptosis. Arkansas Academy of Sciences Annual Meeting, Little Rock, AR, April 3, 1998.
 12. Hirrel, M., Choinski, J.S., Jr., and Runge, S.W. The Use of Computer Work Stations in General Biology Laboratories. Botanical Society of America, Baltimore, MD, August 1998 (Amer. J. Botany 85:1805)
 13. Ebie, A.A., Young, B.M., Irwin, J.P. and Runge, S.W. Apoptosis in C3H-10T1/2 Cells: Evidence for a pH Threshold for Apoptotic Induction. American Association for Cancer Research, Philadelphia, PA, April 10-14, 1999.
 14. Ebie, A.A. and Runge, S.W. "Apoptosis in C3H-10T1/2 Cells: Evidence for a pH Threshold for Apoptotic Induction." Arkansas Undergraduate Research Conference and Space Grant Symposium. Henderson State University, Arkadelphia, AR, April 24, 1999.
 15. Cantrell, D.P. and Runge, S.W. "Temporal Relationship Between Intracellular Acidification and Caspase Activation During Apoptosis in C3H-10T1/2 Cells." Arkansas Undergraduate Research Conference and Space Grant Symposium. Henderson State University, Arkadelphia, AR, April 24, 1999.

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16. Young, B.M. and Runge, S.W. "The Role of Intracellular Acidification in the Progression of Apoptosis." Arkansas Undergraduate Research Conference and Space Grant Symposium. Henderson State University, Arkadelphia, AR, April 24, 1999.
 17. Holleman, D.D. and Runge, S.W. "Snail Gut Epithelium as a Model for Apoptosis". Arkansas Undergraduate Research Conference and Space Grant Symposium. Henderson State University, Arkadelphia, AR, April 24, 1999.
 18. Johnson, K.C. and Runge, S.W. "Role of Stress Activated Protein Kinases (SAPK) in Acidification-Induced Apoptosis". Arkansas Undergraduate Research Conference and Space Grant Symposium. Henderson State University, Arkadelphia, AR, April 24, 1999.
 19. Runge, S.W., Hirrel, M.C., Moran, W.M. and Choinski, J.S. Jr. Making Connections Using a "Less is More" Approach to Freshman Biology. Project Kaleidoscope Tenth Anniversary Conference and *Faculty for the 21st Century* National Assembly. University of Maryland College Park and Washington DC. October 22-24, 1999.
 20. Holleman, D.D. and Runge, S.W. A Comparison of Apoptotic Induction in the Gut of *Aplysia californica* and the Sprague-Dawley Rat. Arkansas Academy of Science - Eighty-fourth Annual Meeting, Hot Springs, AR. April 7, 2000.
 21. Johnson, K.C. and Runge, S.W. Role of jun-N-Terminal kinases in Acid-Induced Apoptosis. Arkansas Space Grant Symposium, Arkansas Tech University, Russellville, AR. April 14, 2000.
 22. Holloway, S. and Runge, S.W. Role of Intracellular Acidification and Apoptosis in Resistance of Cultured Cells to Dying. Arkansas Undergraduate Research Conference, Henderson State University, Arkadelphia, AR. April 28, 2000.
 23. Holleman, D.D. and Runge, S.W. Apoptotic Induction in the Intestinal Epithelium of the Marine Snail *Aplysia californica* and the Sprague-Dawley Rat. Ninety-Second Annual Meeting of the American Association for Cancer Research. New Orleans, LA. March 24-28, 2001.
 24. Hearn-Holleman, D.D., King, J.M. and Runge, S.W. Apoptotic Induction in the Intestinal Epithelium of the Marine Snail *Aplysia californica* and the Sprague-Dawley Rat. Arkansas Academy of Science - Eighty-fifth Annual Meeting. University of Central Arkansas, Conway, AR. April 13-14, 2001.
 25. Johnson, M., Melton, S., Morgan, C. and Runge, S.W. Significance Determination of an Intracellular Acidification in the Induction of Apoptosis in C3H010T1/2 Mouse Fibroblast Cells. Arkansas Undergraduate Research Conference, Henderson State University, Arkadelphia, AR. April 29, 2001.
 26. Norrell, N.P., Kubo, F., Morgan, G.C., Melton, S., Strassle, D.K. and Runge, S.W. The Role of Intracellular Acidification in Apoptotic Progression. Arkansas Academy of Science - Eighty-sixth Annual Meeting. University of Arkansas at Little Rock. April 5-6, 2002.
 27. Norrell, N.P. and Runge, S.W. *The Role of Intracellular Acidification in Ultraviolet Radiation-Induced Apoptosis*. Arkansas Undergraduate Research Conference, Henderson State University, Arkadelphia, AR, 2002.
 28. Shelton, K., Steele, J. and Runge, S.W. *Intracellular Acidification and Apoptosis*. Arkansas Undergraduate Research Conference, Henderson State University, Arkadelphia, AR, 2003.

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29. Walser, B. and Runge, S.W. Identification of the Regulatory Proteins Controlling Intracellular pH in Cultured Human Breast Cancer Cells. Arkansas Undergraduate Research Conference, Henderson State University, Arkadelphia, AR, 2004.
 30. Cook, C., Haley, U.B. and Runge, S.W. Acidification Induced Exocytic Response in MCF-7 Cells and Correlating Apoptosis. Arkansas BRIN Research Conference. Little Rock, AR. July 2005.
 31. Shelton, K.R., Ray, C., Chang, A. and Runge, S.W. Modulation of the Sodium-Hydrogen Exchanger (NHE) mRNA levels in MCF-7 Cells Under Acidic and Hypoxic Conditions. Ninety-seventh Annual Meeting of the American Association for Cancer Research. Washington, D.C. April 2006.
 32. Basham, K., Huffman, L., Desrochers, P. and Runge, S.W. Apoptotic Induction in MCF-7 Cells by [dppeNi²⁺CYSEt⁺]Cl⁻. Arkansas Undergraduate Research Conference, Henderson State University, Arkadelphia, AR, 2006.
 33. Manning, A., Desrochers, P. and Runge, S.W. Induction of Apoptosis in MCF-7 Human Breast Cancer Cells by [dppeNiCysEt⁺]Cl⁻. Arkansas Undergraduate Research Conference, Henderson State University, Arkadelphia, AR. April 2007.
 34. Manning A., K. Basham, L. Huffman, J. Moody, P. Desrochers and S.W. Runge. "Effects of Hypoxia and Acidosis on Apoptosis Induction in MCF-7 Breast Cancer Cells". 99th Annual Meeting of the American Association for Cancer Research. San Diego, CA. April 12-16, 2008.

Numerous additional student presentations at state and local meetings since 2008.