



UC Riverside Educational Engagement Programs CAMPUS INVENTORY

Name of Program	Teachers/Admin.	K-12 Students	Parents	Undergraduates	Graduates	Mathematics	Science	Technology	Engineering	Humanities	History/Social Science	College Awareness	Research/Evaluation
Advanced Placement Certificate	X					X	X			X	X		
Annual Chicano/Latino Youth Conference		X										X	
Apollo		X				X	X		X			X	X
Aurora	X	X		X		X	X						X
Biliteracy Specialist Certificate Program	X									X			
Bourns Science and Engineering Day	X	X		X		X	X	X	X			X	
Building Bridges Across Riverside Through Water Quality Research		X		X			X	X	X				
CAMP (California Alliance for Minority Participation)				X		X	X	X	X			X	X
CMST (California Mathematics and Science Teacher Initiative)	X	X		X		X	X						X
CUSP (College University School Partnership)	X	X		X		X							X
CNID (Center for Nanoscience Innovation for Defense)	X			X	X		X	X	X				X
CEPCEB (Center for Plant Cell Biology)				X	X		X	X					X
Certificate in Early Childhood Studies	X												
Certificate in Education for the Gifted and Talented	X												
Certificate in Teaching Language Arts and Writing	X									X			
Certificate in the Study of Multiple Intelligences	X					X	X			X	X		
Certificate in Visual and Performing Arts for Educators	X									X			
Chief Business Officials Certificate	X												
CHAMP (Climbing Higher with the Academy for Mathematics Performance)	X	X		X		X						X	X
College Admissions Counseling	X	X	X									X	
College Information Day	X	X	X									X	
The Community College Collaborative (C4)													
Community College Day	X	X	X									X	
Conflict Resolution for Educational Environments	X												
COMPASS (Content Opportunities in Mathematics Programs for ALL Secondary Students)		X				X		X				X	X
CTEI (Comprehensive Teacher Education Institute)	X	X		X									X
Copernicus Project	X	X	X	X	X	X	X	X					X
Designated Subjects Adult Education Credential	X					X	X	X		X	X		
Designated Subjects Vocational Education Credential	X												
EADP (Early Academic Development Program)		X	X									X	
Edge Academy	X	X	X	X		X						X	X
Educational Facilities Planning Certificate	X												
ETS (Educational Talent Search)	X	X	X									X	
Educational Therapy	X												
Exemplary Teaching and Instructional Leadership Certificate Program	X									X			
Expanding Horizons		X				X	X					X	
Exploring Algebra		X				X						X	
FastStart		X		X		X	X						
Frontiers in Nanotechnology and Engineering Summer Program	X	X					X		X				X
Frontiers in Nanotechnology High School Research Program	X						X		X			X	X
Galileo Project				X	X			X					X
GATE (Girls Achieving Technological Excellence)		X				X		X				X	X
GEAR UP	X	X	X	X								X	X
GEMS (Girls Excelling in Mathematics with Success) (Middle School)		X	X			X	X					X	X
GEMS (Girls Excelling in Mathematics with Success) (West End)													
Gluck Fellows Program of the Arts	X	X		X	X					X			
HBHM (Healthy Body-Healthy Mind)		X	X	X		X	X					X	X
HSP (Health Sciences Partnership)		X				X	X					X	
IARP (Inland Area Reading Project)	X									X			X
IASP (Inland Area Science Project)	X						X						X
IAWP (Inland Area Writing Project)	X									X			X



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Instructional Aid Certificate Program	X							X					
Inquiry-Based Learning Certificate Program	X					X	X	X		X	X		
ISIS (I Strive I Succeed) Project	X	X			X	X	X					X	X
Kaleidoscope of Learning	X					X	X						
Learning Skills for Grades 6-8		X										X	
MARC U* Research Group (Minority Access to Research Careers)				X			X						X
MARC U* Star Undergraduate Research Training Program				X			X						X
MATE (Mathematics Academy for Teaching Excellence)	X			X	X	X							X
MESA K-12 (Mathematics, Engineering, Science Achievement)		X				X	X		X			X	
Mathematics for Educators Certificate Program	X					X							
MSP (Medical Scholars Program)				X			X						
MSRIP (Mentoring Summer Research Internship Program)				X	X	X	X	X	X				X
Minds for Design Summer Programs		X						X	X				
NSF GAANN Fellows					X		X						
NSF Math ACTS (Achievement & Collaboration for Teachers & Students)	X	X		X	X	X	X	X					X
NSF NOYCE	X	X		X	X	X	X						X
P-20 Regional Alliance	X	X		X	X	X	X	X				X	X
Parent and Communication Skills	X	X	X										
PROMISE (Providing Research Opportunity Through Mentoring in STEM Education)	X	X		X	X	X	X						X
Pupil Personnel Service Credential	X												
Reading Certificate Program	X									X			
Reading and Language Arts Specialist Credential	X									X			
REU (Research Experiences for Undergraduates)				X			X	X					X
Riverside Unified School District Science and Engineering Fair	X	X	X				X		X			X	
San Bernardino CARES Project		X	X										
San Bernardino CONNECTIONS Project	X	X	X										
Science for Educators Certificate Program	X						X						
SMI (Science/Mathematics Initiative)	X	X		X		X	X	X	X				X
SUP (School University Partnership Initiative)													
Science QUEST (Queries to Understanding Excellence in Science Teaching)	X			X	X	X							X
Secondary Mathematics Blended Program				X	X	X							
Society of Women Engineers				X	X			X					
STEP (Science and Technology Education Partnership Conference)	X	X				X	X	X	X			X	X
Subject A High School Outreach Program	X	X								X		X	
Summer Academy for Advanced H. S. Students		X				X	X			X	X	X	
Summer Bridge Fridays in Engineering				X				X	X				
SUNRISE REU				X		X	X	X	X				X
Supplementary Authorization in Computer Concepts and Applications	X							X					
Supplementary Authorization in Mathematics for Teachers	X					X							X
Supplementary Authorization in Introductory Science	X						X						X
Technology in Education Certificate Program	X							X					
UC LEADS (UC Leadership in Advanced Degrees)	X			X	X	X	X	X	X				X
UCR Communities for Virtual Research	X	X						X					
UCR Model United Nations	X	X										X	
UCR Space Science and Engineering Day	X	X	X			X	X	X	X			X	
UECC (University Eastside Community Collaborative) AmeriCorps Project		X		X		X	X						X
University Honors Program				X		X	X	X	X	X	X		
University Library: Project Connect	X	X	X										
Upward Bound		X				X	X					X	X
Young Writers Camp	X	X								X		X	
Young Writers Program	X	X								X		X	

UC Riverside Education Programs
CAMPUS INVENTORY

Advanced Placement Certificate

Throughout the state of California, school districts are experiencing difficulty in finding well-qualified teachers for Advanced Placement courses. To meet this need, University Extension has designed the Certificate in Teaching Advanced Placement Courses in collaboration with the College Board. The certificate program provides teachers with content knowledge, pedagogical skills, leadership approaches and instructional strategies. **Contact: Mary Ellen Gruendyke, Education Extension (951) 827-1665-Funding Source: Self Support**

Annual Chicano/Latino Youth Conference

Each spring, University of California, Riverside hosts 400-500 high school students for a full day of presentations and workshops on such topics as preparing for college, careers, education motivation and special interests. The goal of the conference is to encourage students to pursue education and become involved in community affairs. **Contact: Estella Acuna, Chicano Student Programs (951) 827-3821-Funding Source: Students Initiated Outreach**

Apollo

Apollo is a summer program for freshmen and sophomore high school boys, which focuses on developing a well-rounded individual by balancing the role of academics, fitness and positive mental attitude. Students receive instruction in mathematics, science, technology, fitness, physical education, motivation and character development.

Contact: Mary Simons, ALPHA Center (951) 827-7034-Funding Source: UC Office of the President

Aurora

Aurora provides select community colleges with resources to help identify and prepare STEM students for careers in education. Course articulation and scholarship opportunities are special elements of this program. **Contact: Linda Scott-Hendrick, (951) 827-5722-Graduate School of Education (951) 827-5590-Funding Source: ARCHES**

Biliteracy Specialist Certificate Program

The Biliteracy Specialist Certificate program provides methods and resources for developing learning and teaching about literacy in two languages and ways to implement two-way bilingual immersion (TWBT) Programs. Current theory and research on teaching literacy in two languages and analysis of ways to connect literacy, literature and writing across the curriculum are presented. **Contact: Dr. Sue Teele or Annette Webb, Education Extension (951) 827-1653-Funding Source: Self-support**

Bourns Science and Engineering Day

Sponsored by Bourns Inc., this special day includes lectures and demonstrations in engineering, computer science, physics, biology, chemistry and geology. There is also a luncheon and a tour of the Science Library. The participants are high achieving students in mathematics and science from high schools throughout Riverside and San Bernardino Counties. **Contact: Diane Viero, Office of Event Management (951) 827-3144-Funding Source: The Bourns Foundation**

Building Bridges Across Riverside Through Water Quality Research

This project provides Riverside Community College (RCC) students from underrepresented backgrounds an experiential learning opportunity in cutting-edge water quality research and exposure to a four-year college environment at the University of California, Riverside (UCR). The intention is that this experience motivates students to pursue a career in science and engineering. The collaboration addresses the USDA's priority for research in water resources and quality and goal to expand and diversify the nation's scientific work force. The outreach component involves Riverside residents from elementary school students participating in the Science Fair through students of all ages attending the seminar series. **Contact: Dr. Sharon Walker, Assistant Professor of Chemical and Environmental Engineering (951) 827-6094- Funding Source: Department of Agriculture (USDA)**

CAMP (California Alliance for Minority Participation)

The primary goals of CAMP-UCR are to encourage participants to excel in the sciences and to pursue graduate and professional degrees. CAMP-UCR offers a Summer Academic Enrichment Program in Mathematics and Chemistry for entering freshmen and a Summer Research Program for juniors and seniors. Opportunities to attend conferences are also available. **Contact: Christopher Olivera, CNAS (951) 827-5326-Funding Source: National Science Foundation/UC Office of the President**

CMST (California Mathematics and Science Teacher Initiative)

California Mathematics and Science Teacher Initiative (CMST) is a program that provides UC Riverside STEM majors with an annual \$5000 scholarship for teaching highly conceptualized mathematics or science to K-12 students in Riverside County while pursuing a career in teaching. The purpose is two fold: 1) to provide incentives and opportunities for college students to develop themselves as teachers and 2) to provide K-12 students with contemporary ideas and encouragement for continuing to study mathematics and science (ultimately preparing them for college entrance). **Contact: Leslie Bushong 951-827-4970 Funding Source: UC Office of the President**

CUSP (College University School partnership)

CUSP is a program that provides UC Riverside STEM majors with an annual \$5000 scholarship for teaching highly conceptualized mathematics or science to K-12 students in the west end of San Bernardino County while pursuing a career in teaching. The purpose is

two fold: 1) to provide incentives and opportunities for college students to develop themselves as teachers and 2) to provide K-12 students with contemporary ideas and encouragement for continuing to study mathematics and science (ultimately preparing them for college entrance). **Contact: Linda Braatz-Brown, ALPHA Center (951)827-2963- Funding Source: SB 70 Grant**

CNID (Center for Nanoscience Innovation for Defense)

CNID acts as a conduit through which industrial partners can recruit highly trained students in the areas of nanoscale science and engineering, and allows students to obtain contact with real world research and development in the private sector. The research at UCR is focused on the preparation of nanomaterials that will eventually be fabricated into nano devices when the University Nanofabrication and Clean Room facilities are complete next year. The UCR effort includes the preparation and construction of devices based on multiporphyrins, carbon nanotubes and neutral radical conductors. UCR also has a project designed to study the interaction between carbon nanotubes and neurons - both of these species transport charge over conducting channels that are of submicron dimensions. In recognition of the importance of homeland defense, there is also a strong component of work on sensors that are expected to have defense applications. The five areas of CNID research that UCR focus on are: nanoscale electronic devices, spintronic devices - organic and inorganic, multiporphyrin molecular memories, neurons and nanotubes, and sensors. **Contact: Nancy Jahr, Bourns, College of Engineering (951) 827-2233-Funding Source: Defense Advanced Research Project Agency (DARPA) and Defense MicroElectronics Activity (DMEA)**

CEPCEB (Center for Plant Cell Biology)

Undergraduates are invited to apply to the Center for Plant Cell Biology (CEPCEB) to pursue individual research projects in the area of plant cell biology. Eight to twelve students are accepted each summer to this 10-week residential summer program. Each student has a faculty and a graduate or postgraduate mentor. In the initial week of the program, students are introduced to the basics of plant cell biology as well as developing areas in plant cell biology in which UCR has expertise, including genomics, proteomics and bioinformatics, through a series of lecture/laboratory exercises. Students then spend nine weeks on a research project of their choice. To further enrich the students and to guide them toward graduate studies, students participate in workshops to enhance learning skills and professional development, and to discuss ethics in science. **Contact: Dr. Julia Bailey-Serres, Plant Cell Biology (951) 827-3738-Funding Source: UC Riverside and the National Science Foundation**

Certificates in Early Childhood Studies

The certificate is offered in two phases, both of which prepare individuals to work with young children. Phase I provides individuals with information regarding child growth and development, strategies for effective classroom teaching, developmentally based curriculum and current research and trends. Phase II is designed to increase knowledge of administration and supervision of early childhood programs. **Contact: Dr. Margi Wild, Education Extension (951) 827-1660-Funding Source: Self Support**

Certificate in Education for the Gifted and Talented

This certificate program is offered to help teachers meet state educational training requirements for teaching gifted and talented students and to keep teachers informed about recent research and curriculum development in the field. **Contact: Eileen Johnson, Education Extension (951) 827-1655-Funding Source: Self Support**

Certificate in Teaching Language Arts and Writing

This program is a comprehensive course of study providing practical knowledge of theories and instructional methods for teaching English, language arts and writing in the classroom. Certificate courses emphasize the practical applications of theories and current research in English/language arts instruction. They also provide a thorough examination of both effective teaching methodologies for the classroom and current issues affecting English/language arts teachers. Participating educators should gain the skills and knowledge to select, adapt and employ appropriate instructional materials and methods for use in other curricular areas that require good communication skills of the student. This program is designed for teachers, administrators and resource and program specialists at levels of instruction K-12. **Contact: Dr. Sue Teele, Education Extension (951) 827-1663-Funding Source: Self-Support**

Certificate in the Study of Multiple Intelligences

This program provides a comprehensive course of study in both the principles and practical applications of the theory of multiple intelligences. It is intended for teachers, administrators, resource and program specialists, curriculum specialists, board members, parents and support staff at all levels of elementary, secondary and university education. The program includes the psychological and educational research underlying the theory of multiple intelligence, and emphasizes practical applications for teaching in every content area at all grade levels. Educators can learn how to integrate curriculum and assessment mandates and content standards with the theory of multiple intelligences. **Contact: Dr. Sue Teele, Education Extension (951) 827-1663 or Annette Webb (951) 827-1653-Funding Source: Self-Support**

Certificate in Visual and Performing Arts for Educators

This program provides participants with an in-depth examination of the arts and the role they play in educational environments. The program is designed for K-12 teachers who want to learn how to integrate the visual and performing arts into their existing curriculum and improve student academic achievement through the arts. Educators also learn how to assist their students in becoming more aware of carriers in the arts and learn about career pathways available in theater, dance, music and visual arts. Both elementary and secondary educators can participate in the program to learn how to effectively integrate the arts into other content areas. **Contact: Dr. Sue Teele, Education Extension (951) 827-1663-Funding Source: Self-Support**

Chief Business Officials Certificate

This certificate program offers a unique sequence of courses that will provide participants with the knowledge and broad range of skills and multiple responsibilities required to become an effective chief business official. Both existing and prospective chief business officials can participate in the program to learn. **Contact: Mary Ellen Gruendyke, Education Extension (951) 827-1665-Funding Source: Self Support**

CHAMP (Climbing Higher with the Academy for Mathematics Performance)

CHAMP is a weeklong lab school sponsored by MATE (Mathematics Academy for Teaching Excellence). Students from grades 4th-11th are identified by local school campuses and invited to participate in the program. CHAMP's content rich program is designed and taught by MATE teacher/leaders, 4th-11th grade teachers from participating school sites, university California Mathematics and Science Teacher Initiative (CMST) students, and UCR staff. The goal of this collaborative project is to raise mathematical and college awareness in students and teachers at these grade levels that are often considered gatekeepers to future success in mathematics, science and technology. **Contact: Candy McReynolds, ALPHA Center (951) 827-2961-Funding Source: National Science Foundation**

College Admissions Counseling

This program is developed to provide the knowledge and expertise necessary to assist students in identifying post-secondary college options. The program provides information on the application calendar for private and public schools, financial aid planning admission procedures, and preparing students for college entrance exams. It is designed for junior and senior high school counselors, teachers, parents, and community college and private counselors. **Contact: Dr. Margi Wild, Education Extension (951) 827-5995-Funding Source: Self Support**

College Information Day

The College Information Day is an annual event for 200 Native American high school students, designed to introduce Native Americans to higher education. The day includes a workshop on "Preparing for College," a University of California, Riverside Native American students Association, alumni and faculty panel and a campus tour. This is a University of California, system wide event. Participants have an opportunity to meet University of California recruiters. (Open to All) **Contact: Earl Sisto or Joshua Gonzalez Native American Student Program (951) 827-4143, UCOP American Indian Councilors/ Recruiters Association/Native American Student Programs**

The Community College Collaborative (C4)

C4 provides much needed valuable information to the current and future educational leaders of California by supporting and conducting empirically-based research on community colleges and creating a program for the professional development for educational leaders. **Contact: John Levin, Professor, Graduate School of Education, (951) 827-4976: UCOP and Systemwide Community College**

Community College Day

Structured to provide students with pertinent information regarding the transfer process, support services, academic programs and student life. **Contact: Lydia Enriquez, Chicano Student Programs (951) 827-3821-Funding Source-Chicano Education and Cultural Fund**

Conflict Resolution for Educational Environments

This program has been developed for school administrators, teachers, counselors, nurses, school psychologists, pupil services personnel, classified staff, school security police, parents, school trustees, and representatives of community agencies. The goals are to help participants understand principles of conflict resolution, positive communication and intervention skills in order to manage situations in educational environments which have potential of escalating into violent confrontations. Participants completing the program will explore mediation and problem-solving skills and will be able to identify and share with other professionals ways to resolve conflict without violence. This program provides demonstration models for participating in productive and positive dialogues, share techniques for dealing with conflict and develop intervention skills. **Contact: Margi Wild, Education Extension (951) 827-5995-Funding Source: Self Support**

COMPASS (Content Opportunities in Mathematics Programs for ALL Secondary Students)

Project COMPASS is a summer program for high school students, which focuses on developing student understanding of technology which aids them in their capabilities to do mathematics. Students receive instruction in mathematics in technology, and how to combine both to develop deeper understanding of critical thinking. **Contact: Mary Simons, ALPHA Center (951) 827-7034-Funding Source: UC Office of the President**

CTEI (Comprehensive Teacher Education Institute)

The Comprehensive Teacher Education Institute (CTEI) represents a number of collaborative partnerships: University of California, Riverside's Graduate School of Education, academic departments at University of California, Riverside and school districts in Riverside and San Bernardino counties. The purpose of CTEI is to prepare prospective teachers in diverse settings, to promote the professional development of experienced teachers, and to encourage research related to education practice. **Contact: Kathy Evans, School of Education (951) 827-4691**

Copernicus Project

The mission of this project is to improve student learning by bringing about fundamental change and improvement in teacher preparation programs. Such changes include increasing teachers' academic content preparation in areas they intend to teach integrating reliable research-based teaching methods into the education curriculum; providing sustained and high quality preservice clinical or field

experience; and creating opportunities for professional development activities that improve the academic content knowledge of teachers in their target certification areas and strengthen teaching skills. The central focus is on improving the achievement of students in science through improved teacher quality in science. **Contact: Linda Scott-Hendrick, (951) 827-5722-Graduate School of Education (951) 827-5590-Funding Source: U.S. Dept. of Education, Office of Post Secondary Education**

Designated Subjects Adult Education Credential

The Adult Education Credential authorizes the holder to teach courses offered through unified school districts, military settings and correctional facilities primarily for adults. **Contact: Kim Lane, Education Extension (951) 827-1654-Funding Source: Self-Support**

Designated Subjects Vocational Education Credential

The Vocational Education Credential authorizes the holder to teach those subjects designated as vocational, technical or trade in grades 12 and below in classes organized primarily for adults. The Vocational Education Credential is required for those persons teaching through Regional Occupational programs (ROP), and is often requested by those teaching in California Correctional Facilities: including Driver Education and Training Subject Matter, Basic Military Drill, and ROTC. **Contact: Kim Lane, Education Extension (951) 827-1654-Funding Source: Self-Support**

EADP (Early Academic Development Program)

Established in 1975, EAOP is operated out of the Office of the President, but each campus has its own EAOP office. UC Riverside's EAOP currently reaches some 6,000 students in 41 high schools. EAOP offers academic counseling and information regarding the application process for college admission and financial aid to low income and/or educationally disadvantaged high school students.. Students are encouraged to take the requisite courses to meet the University's admissions requirements, to take the appropriate college entrance exams and to pursue post-secondary education. **Contact: Francis Calvin, Early Academic Development Program (951) 827-4695-Funding Source: UC Office of the President, California Education Fund**

The Edge Academy

This Algebra/Geometry Academy for incoming ninth graders, made possible by a partnership between San Geronio High School, University of California, Riverside ALPHA Center and University of California Office of the President. The goals of the Academy are:
For Students

- To get an "edge" in mathematics so that students will be better prepared to succeed in their ninth grade Algebra 1 or Geometry course;
- To gain "college knowledge"-- knowledge about college eligibility requirements, financial aid, as well as familiarity with university campuses and faculty.
- To ease the transition into high school.

For Parents

- To gain knowledge about college admission requirements, higher education options and financial aid.
- To provide parents with tools for supporting their student throughout high school in realizing the academic success necessary for college eligibility and admission.

For Teachers

- To use knowledge gained in professional development programs to diversify and enhance their instructional strategies.

For Future Teachers

To provide UCR undergraduate mathematics and science students an opportunity to apprentice with mathematics teachers, assisting in the classroom and in planning throughout the Edge Academy. **Contact: Maria Simani, ALPHA Center (951) 827-7932-Funding Source-P-20 Alliance, UC Office of the President and San Bernardino City Unified School District**

Educational Facilities Planning Certificate

To meet the unprecedented increases in student enrollment and the challenges in growth and change, Extension has developed a program designed to provide individuals involved with educational facilities the tools they need for decision-making in this critical area. This program offers a unique sequence of courses that provides participants with the information necessary to make demographically responsive, cost-effective and educationally sound decisions about present and projected educational facility needs. **Contact: Dr. Sue Teele, Mary Ellen Gruendyke, Education Extension (951) 827-1665-Funding Source: Self Support**

ETS (Educational Talent Search)

This program provides services to 600 low-income, disadvantaged middle school and high school students at selected schools in the San Bernardino City Unified School District and Moreno Valley School District. This program provides:

- Academic Guidance: Academic, financial, and career advising including entry or re-entry into secondary and/or postsecondary education.
- Tutorial Referrals: Referrals to tutorial programs at school sites or within the community and supplemental tutoring provided by ETS Mentors.
- College/University Tours and Educational Field Trips: Provided for eligible participants.
- College Entrance Examinations: Information and testing dates.
- Completion of College/University Admission and Financial Aid Applications: Assistance for eligible seniors in the completion of applications.

Parent/Guardian Workshops: Covering a variety of topics related to postsecondary education.

Contact: Alicia Velazquez, Office of TRIO Programs (951) 827-4865-Funding Source: US Dept. of Education

Educational Therapy

The purpose of the program is to provide individuals with the skills and knowledge necessary to interface educational therapy with school curricula, or with the demands of vocational and professional advancement, in the case of working adults. Completion of this program will enable private educational therapists, teachers, counselors, school personnel or resource/program specialists to use educational therapy techniques in conjunction with other pedagogical skills in current or new situations. The training is designed to assist the candidate in fulfilling two major roles of the practicing educational therapist, remediator and case manager. **Contact: Dr. Margi Wild, Education Extension (951) 827-5995-Funding Source: Self Support**

Exemplary Teaching and Instructional Leadership Certificate Program

The Certificate in Exemplary Teaching and Instructional Leadership program provides accomplished teachers with instructional and leadership skills to enhance their personal and professional growth and assists teachers who are interested in preparing for National Board Certification. Coursework is offered in instructional management; assessment and analysis; family, community and professional partnerships; writing skills, pedagogical skills and leadership approaches and instructional strategies. **Contact: Mary Ellen Gruendyke, Education Extension (951) 827-1665-Funding Source: Self Support**

Expanding Horizons (3rd-7th Grades)

UC Riverside, Extension offers a two-week summer program of academic and enrichment activities for eager learners, talented, high-achieving and gifted students in grades 3-7. During the session, students attend four courses (two in the morning and two in the afternoon) selecting classes from science, mathematics, writing, languages, art, drama and economics. **Contact: Eileen Johnson, Education Extension (951) 827-1655-Funding Source: Self-Support**

Exploring Algebra (6th-8th Grade)

This is a pre-algebra course for students to explore integers, order of operation, properties, number theory, linear equations and graphing functions with an emphasis on problem solving. **Contact: Eileen Johnson, Education Extension (951) 827-1655-Funding Source: Self-Support**

FastStart

The FastStart summer academy program provides a transition platform from high school to the University of California, Riverside. It is a five-week intensive program for disadvantaged students who aspire to medical and other science based careers. The goal of FastStart is to get students off to a strong start in their critical science curriculum and provide academic and social support needed to persist and succeed in their higher educational goals. **Contact: Dayna Moore, Division of Biomedical Sciences (951) 827-4334-Funding Source: California Wellness Foundation and Private Donors**

Frontiers in Nanotechnology and Engineering Summer Program

Frontiers in Nanotechnology and Engineering for teachers is a two-week summer program for 8th -12th grade teachers and students. The goal of the program is to introduce science teachers to an interdisciplinary approach to understanding the scientific foundation of nanotechnology and provide opportunities to create activities for students that meet national and state educational standards. **Contact: Dr. Cynthia Larive, Chemistry Dept., (951) 827-2990-Funding Source: Center for Nanoscience Innovation for Defense**

Frontiers in Nanotechnology High School Research Program

Outstanding high school students selected from the Frontiers in Nanotechnology and Engineering Summer Program are invited to work with professors for 5 to 6 weeks over the summer. Students learn scientific processes and laboratory procedures in areas such as neuroscience, nanotechnology, nanoelectronics, nanomedicine, nanofabrication, air purification, and magnetic semiconductors. **Contact: Dr. Cynthia Larive, Chemistry Dept., (951) 827-2990-Funding Source: Center for Nanoscience Innovation for Defense**

Galileo Project

The Galileo G*STAR Electronic Portfolio System: (A Technology-Rich Performance-Based System for New Teacher Assessment) is part of a UC system-wide consortium (with several private and CSU IHEs) designed to create significant and lasting change in the current methods and procedures for determining the professional capabilities and preparedness of California's new teachers. **Contact: Linda Scott-Hendrick, (951) 827-5722-Funding Source: U.S. Dept. of Education, Fund for the Improvement of Post Secondary Education**

GATE (Girls Achieving Technological Excellence)

The goal of Project GATE is to introduce middle school girls to technology and technology-based careers in a stimulating and intimate environment. Project GATE aims to familiarize participants with the computer, the Internet, the Microsoft Office package, and technology based careers. Participants are exposed to positive female role models by learning about women who have contributed significantly to the development of technology and hear directly from speakers currently working in technology in the Southern California region. As a result of the academic foundation provided by this academy, participants are more familiar with technology, have more positive attitudes toward technology and hopefully consider technology-based careers. **Contact: Mary Simons, ALPHA Center (951) 827-7034-Funding Source: UC Office of the President**

GEAR-UP

This program focuses on increasing participation in higher education and improving high school graduation rates in 5 low performing middle and high schools in Pomona Unified School District. Specifically GEAR-UP offers additional support to

students by providing UCR students for tutoring during class time, after school, and on weekends in mathematics and language arts. **Contact: Francis Calvin, Early Academic Development Program (951) 827-4695-Funding Source: US Dept. of Education**

GEMS (Girls Excelling in Mathematics with Success)

GEMS is a collection of academies for middle and high school girls focusing on mathematics as it relates to college and to life. The purpose is to empower girls with knowledge about mathematics, community service, mentoring and supporting one another. As a result girls are motivated to take more mathematics courses and consider careers that are mathematically based. **Contact: Mary Eggers-Simons, ALPHA Center (951) 827-7034-Funding Source: Athena Foundation, Anderson Foundation, Bank of America**

GEMS (Girls Excelling in Mathematics with Success) West End

GEMS is a collection of academies for middle and high school girls from the west end of San Bernardino County focusing on mathematics as it relates to college and to life. The purpose is to empower girls with knowledge about mathematics, community service, mentoring and supporting one another. As a result girls are motivated to take more mathematics courses and consider careers that are mathematically based. **Contact: Jana Bernard, ALPHA Center (951) 827-2961-Funding Source: Alliance for Education, Chaffey College, BAE Systems**

Gluck Fellows Program of the Arts

Established in 1996, the Gluck Fellows Program of the Arts is the premier arts outreach program at UC Riverside. Each year, the Gluck Program provides fellowships to qualified UCR students and faculty to conduct arts-related presentations, performances, and workshops in Riverside County schools, nursing homes and community centers. Departments currently participating in the Gluck Fellows Program of the Arts include, Art, Creative Writing, Dance, History of Art, Music, Sweeney Art Gallery, Theatre and the UCR/California Museum of Photography. **Contact: John Medina, Arts Administration (951) 827-3518-Funding Source: The Gluck Foundation**

HBHM (Healthy Body-Healthy Mind)

Project Healthy Body-Healthy Mind is a program for middle school students that focuses on developing a well-rounded individual by balancing the role of health education, fitness, nutrition and positive mental attitude. Students receive instruction in mathematics as it relates to health, physical education as it relates to a healthy lifestyle, self-motivation and character development. The goal of this project is to stimulate an awareness and exploration of self through engaging and motivational activities, which inform and challenge the body and mind. Healthy Body-Healthy Mind is where students develop confidence and a positive mindset for success in life. **Contact: Candy McReynolds, ALPHA Center (951) 827-4899 -Funding Source: Children's Spine Foundation**

HSP (Health Sciences Partnership)

In HSP UC Riverside students work with area high schools in identifying and mentoring disadvantaged students who are currently enrolled in their schools' Health Academy Programs. University faculty collaborate with high school teachers to create a sustainable, long-term pipeline of students who seek and are prepared for medical careers. Outreach is currently provided to the following participating high schools: AB Miller HS (Fontana), Arlington HS (Riverside), Canyon Springs HS (Moreno Valley), La Sierra HS (Riverside), John North HS (Riverside), and Valley View HS (Moreno Valley). **Contact: Faye Dawson Brock, Division of Biomedical Sciences (951) 827-4540-Funding Source: National Schools-to-Career**

IARP (Inland Area Reading Project)

A collaborative project designed to provide Inland Area Pre-K-3 teachers with knowledge and skills for improving the reading skills of K-3 students and to link literacy development and reading readiness to the state's K-3 goals. **Contact: Dr. Sue Teele/Carol McKinney, Education Extension (951) 827-3912-Funding Source: California Subject Matter Project**

IASP (Inland Area Science Project)

K-12 teacher development is the goal for the Science Project. Involving thirteen days of intensive earth sciences, physics, biology and chemistry immersion with special emphasis on the Science Content Standards. **Contact: Dr. Sue Teele, Education Extension (951) 827-1663-Funding Source: California Subject Matter Project**

IAWP (Inland Area Writing Project)

The IAWP is one of 17 sites of the California Writing Project. This project identifies academic leaders among the ranks of K-12 local teachers. It invites them to a 5-week summer institute where, in the company of expert colleagues from the schools and the university, they write, read, share and critique the ideas, pedagogies and writing of each other. After the institute, the IAWP helps local schools and districts set up professional development programs that draw on the teachers who have experienced the summer institute. **Contact: Dr. John Briggs, Dr. Martha Plender, Denise Alvarez, English Department (951) 827-3666-Funding Source: California Subject Matter Project**

Instructional Aide Certificate Program

The Instructional Aide Certificate provides instructional aides with training and practical knowledge of their roles and responsibilities as an important component of K-12 educational teams. The certificate provides coursework in learning strategies, classroom management strategies, using technology in the classroom, diversity in the classroom. Specific training for aides assisting teachers of English language learners and/or special education students is a part of the certificate. **Contact: Mary Ellen Gruendyke, Education Extension (951) 827-1665-Funding Source: Self Support**

Inquiry-Based Learning Certificate Program

This program is based on the premise that students must be engaged in activities that build on prior knowledge and allowed them to apply that knowledge to new situations. Coursework explores curriculum development and assessment, project-based and problem-based learning, and integrating inquiry into teaching thematic, interdisciplinary and content approaches. **Contact: Annette Webb, Education Extension (951) 827-1653-Funding Source: Self-Support**

ISIS (I Strive I Succeed) Project

Project ISIS is designed to cultivate the mathematical talents and interests of women at two critical points in their academic careers—middle school and college. ISIS focuses on middle school girls to motivate interest, strengthen academic preparation and increase informational resources for parents/guardians so that they can support their daughters in pursuing college preparatory courses and experiences. Female undergraduates who demonstrate interest in mathematics are guided on a pathway to careers in mathematics and teaching. In this vein, the goals of Project ISIS are: 1) Provide educational opportunities and support for middle school girls to improve their mathematics academic performance and encourage them to pursue higher education and careers in mathematics related fields; 2) Establish an academic, financial, and mentoring support structure for female undergraduates who are considering teaching as a career, or who are pursuing advanced degrees in mathematics related professions; and 3) Implement evaluation and dissemination strategies to maximize project impact, support replication, and advance the knowledge of the mathematics community. **Contact: Linda Braatz-Brown, ALPHA Center, (951) 827-2963-Funding Source: US Dept. of Education, WEEA**

Kaleidoscope of Learning

An interdisciplinary conference focusing on the integration of mathematics, science, language arts, writing and performing arts in relation to teaching strategies and the ways students learn. **Contact: Annette Webb, Education Extension (951) 827-1653-Funding Source: Self Support**

Learning Skills for Grades 6-8

A learning skills course for students in grades six through eight that assists them in increasing their efficiency by identifying how they learn and process information and demonstrating how to adapt their learning styles to different learning situations. Topics include time management, note taking, test taking, organizational skills, building self-esteem, learning styles, and communication. Group activities involve problem solving and methods for developing an individual education plan. **Contact: Eileen Johnson, Education Extension (951) 827-1655-Funding Source: Self Support**

MARC U* Research Group (Minority Access to Research Careers)

This is a 4-year study that seeks to clarify the relationship between science curriculum, federal policy, and identity formation by providing a comprehensive description and analysis of the long-standing NIH intervention, MARCU*STAR (Minority Access to Research Careers, Undergraduate Science Training and Research), whose purpose is to increase the number and competitiveness of underrepresented minorities in careers as research scientists. Results from the research promise to inform developments in school practice, educational policy, and curriculum and socio-cultural theory. **Contact: Reba N. Page, Graduate School of Education (951) 827-2508-Funding Source: National Institutes of Health**

MARC U* Star Undergraduate Research Training

The purpose of the program is to encourage minority students in the sciences to pursue graduate research in the biomedical sciences. The MARC U* Star grant expands research opportunities on campus for underrepresented minority students and provides an opportunity for them to participate in two programs. The MARC U* Star Summer Pre-trainee Research Program introduces sophomores to scientific research in faculty laboratories. The MARC U* Star Trainee Program provides an opportunity for juniors and seniors to conduct mentored research in laboratories for a full 2-year period. Underrepresented students in the Biological Sciences, Biochemistry, Biology, Cell Biology and Neuroscience, Chemistry and Statistics who are selected for the Trainee program will receive a fellowship which includes tuition, fees and insurance as well as a monthly stipend. **Contact: Nancy Day, Program Coordinator, (951) 827-5449 or Dr. Jolinda A. Traugh, Director, Department of Biochemistry (951) 827-4239, Funding Source: National Institute of Health-MARC website at www.marcu.ucr.edu**

MATE (Mathematics Academy for Teaching Excellence)

MATE (Mathematics Academy for Teaching Excellence) is a summer intensive program for teachers designed to provide participants with mathematics content, pedagogy for teaching the content and research issues related to student achievement/teacher development. Algebra, geometry and analysis form the core of the program as these topics are a key to higher mathematics and for college entrance. They also form the mathematical foundation of understanding for many career choices. Mathematics is presented as a relevant, interesting topic related to life. Teachers are exposed to useful, content rich interactive classroom ideas; they are given a stipend along with a professional library of resource materials to be used in the implementation of the new ideas in the classroom. Participants are expected to share the information learned in this academy with interested people (parents, other teachers, community leaders, administrators, and students). **Contact: Candy McReynolds/ALPHA Center (951) 827-4899-Funding Source: National Science Foundation and UC Office of the President**

MESA K-12 (Mathematics, Engineering, Science Achievement K-12)

Mathematics, Engineering, Science Achievement is an academic preparation program of the University of California, working through schools and colleges throughout the state. It is designed to bolster the academic skills needed for students to pursue rigorous mathematics and science based courses of study in college and to provide support for them to go on to careers in technology-based industries. MESA

works through four program components: the MESA Schools Program (MSP) for K-12 students, the MESA Success Through Collaboration Program (MESA STC) a K-12 partnership with American Indian Education programs and the California Department of Education, the MESA California Community College Program (CCCP) which serves community college students so they can transfer to four year institutions in mathematics-based fields of study, and the MESA Engineering Program (MEP) for university-level engineering and computer science students. **Contact: Carlos Gonzalez, College of Engineering (951) 827-2887-Funding Source: State of California**

Mathematics for Educators Certificate Program

The purpose of the Mathematics for Educators Certificate is to provide educators in K-12 classrooms with practical knowledge of theories, mathematical content and instructional methods for teaching mathematics. The certificate program has been designed to meet the changing needs of teachers and students. The program emphasizes mathematics skills, conceptual understanding and problem solving strategies, the use of new technology, and hands-on activities that assist students in solving mathematical problems that occur in the real world. **Contact: Annette Webb, Education Extension (951) 827-1653-Funding Source: Self-Support**

MSP (Medical Scholars Program)

The goal of the UC Riverside Medical Scholars Program (MSP) is to increase the diversity of UCR students who succeed in their undergraduate years and achieve their goal of entering medical school or allied health disciplines. This new program offers a variety of academic enrichment activities and career advising. A special two-quarter course provides training on how to use campus resources, develop communication skills, and workshops on time/money management. Other components include peer mentoring, faculty advising and a special speaker series. Beyond the first year, MSP students will become more involved in workshops/ activities aimed at preparing them to apply to professional schools in the health sciences. **Contact: Teresa Cofield, Division of Biomedical Sciences 951-827-4935-Funding Source: Division of Biomedical Sciences**

MSRIP (Mentoring Summer Research Internship Program)

The Mentoring Summer Research Internship Program (MSRIP) is an eight-week intensive mentoring program which offers hands-on research experience under close faculty mentorship, to juniors, seniors and first-year master's students from diverse backgrounds who are pursuing graduate degrees (preferably the Ph.D.). Student-faculty matches are based on mutual research interests and the availability of faculty. MSRIP has positions available across many disciplines -- from the humanities and social sciences to life and physical sciences, math and engineering. Workshops and seminars prepare students to take the GRE, apply to graduate school, find financial support, learn about academic and research ethics. Research talks at the end of the program highlight the work of the student researchers. The program offers units of academic credit, a stipend, airfare and room and board (for students living outside the local area). **Contact: Maria Franco-Aguilar, Graduate Recruitment & Outreach (951) 827-3680-Funding Source: Various**

Minds for Design Summer Program

This program, a partnership between the Bourns College of Engineering and the Girl Scouts of San Geronio Council was designed to introduce middle girls to the world of engineering. Participants learn the process of conceptualizing and creating projects of their own design. Through hands-on activities, field trips to engineering firms, guest speakers, and professional mentoring, the girls have an opportunity to learn what it would be like to work in the field of engineering. The goal of the program is to increase the number of women entering science, technology, engineering and math (STEM) fields. By the program's end the girls "think like an engineer" and become inspired to continue taking math and science courses and potentially pursue careers in STEM fields. **Contact: Dr. Sharon Walker, Dept. of Chemical and Environmental Engineering (951) 827-6094 or Roderick Smith, College of Engineering (951) 827-2887**

NSF GAANN Fellows

As part of their graduate school research experience, graduate students engage in teaching with undergraduates and the K-12 community. **Contact: Dr. Richard Cardullo-Biology Department, (951) 827-6457-Funding Source: National Science Foundation**

NSF Math ACTS (Achievement & Collaboration for Teachers and Students)

ACTS is a 5-year project funded by the National Science Foundation based on the partnership between UC Riverside and Jurupa Unified School District. The goal is to improve student preparation for and achievement in Algebra I, by providing professional development to preservice and inservice teachers and by providing additional support and enrichment activities to students. **Contact: Dr. Richard Cardullo-Biology Department, (951) 827-6457-Funding Source: National Science Foundation**

NSF NOYCE

The College of Natural and Agricultural Sciences, the Graduate School of Education and the ALPHA Center for Academic Partnerships formed an alliance with the fast growing high need, low performing Moreno Valley Unified School District (MVUSD), to prepare exceptional Science, Technology, Engineering and Mathematics (STEM) undergraduate majors for secondary school teaching careers. Building on the unique infrastructure established at UCR by the Science Mathematics Initiative, the California Mathematics and Science Teacher Initiative and the Copernicus Project, the UCR Noyce Scholarship Program will provide a continuum of teacher preparation and professional development experience that will commit Noyce Scholars to teach in a nearby under-performing, low socio-economic, school districts. **Contact: Dr. Maria Chiara Simani, ALPHA Center, (951) 827-7932-Funding Source: UC Office of the President**

P-20 Alliance

The P-20 Alliance is an initiative that engages UCR with other educational organizations across the educational continuum (K-12 districts, community colleges, and universities) in the Inland Empire to improve educational opportunities for students in the region. Partnerships that result from participation on P-20 councils and similar educational reform networks result in collaborative efforts targeting professional development for Inland Empire teachers who serve underrepresented student populations, establishing data consortia to enable data-sharing among institutions to inform program improvement and development designed to improve access to higher education, and providing students with opportunities in and out of school to enhance their academic preparation with a focus on preparing for higher education. The two principle goals of the P-20 Regional Alliance are: 1) to increase the number and diversity of Inland Empire students motivated to attend and academically prepared for success in college; and 2) to improve teacher quality in Inland Empire schools. In concert with state and national trends in educational reform, the substantive work of UCR's P-20 Regional Alliance has centered on mathematics education (high quality teaching and student achievement), with an increasing emphasis on secondary school reform, particularly in schools serving underserved and underrepresented student populations. **Contact: Dr. Maria Chiara Simani, ALPHA Center (951) 827-7932-Funding Source: UC Office of the President and Irvine Foundation**

Parent and Communication Skills

This certificate explores positive parenting and communication techniques and their ability to prevent or ameliorate negative family or classroom situations. The program also focuses on family adjustments to change or traumatic circumstances, like broken family relationships or the death or incarceration of a family member. The program is for school administrators, teachers, counselors and parents. It helps individuals understand child development and use parenting and communication skills in new ways. Parent and educators who communicate clearly on a daily basis are able to provide valuable feedback to students in terms of their capabilities and academic self-concept. Completion of the program will enable participants to improve their understanding of child development, parenting programs, communications skills, and to act purposefully in designing classroom curricula. **Contact: Dr. Margi Wild, Education Extension (951) 827-5995-Funding Source: Self Support**

Pupil Personnel Services Credential

Credential authorizes the holder to develop, plan, implement and evaluate a school-counseling program that includes academic, career, personal and social development. Those receiving their credential will provide school wide prevention and intervention strategies and counseling services. Counselors will also provide consultation; training to parents and staff development to teachers regarding students' needs and supervise a district-approved advisory program. **Contact: Pascale McCafferty, Education Extension (951) 827-1654-Funding Source: Self Support**

PROMISE (Providing Research Opportunity Through Mentoring in STEM Education)

Promise is a strategy comprising a series of outreach initiatives that aim to create engaging and sustainable partnerships between high school students, their teacher, and UCR faculty members from science, technology, engineering and mathematics (STEM) fields. High achieving K-12 students from low-performing high schools are given the unique opportunity of a close interaction with UCR STEM faculty as they teach, and do cutting-edge research. **Contact: Dr. Maria Chiara-Simani, ALPHA Center (951) 827-7932-Funding Source: UC Office of the President**

Reading Certificate Program

The Reading Certificate program is designed to prepare educators to assist their students to read and write clearly, creatively, critically, skillfully and effectively. The program emphasizes the early and continuing development of reading and language arts skills, as the expeditious implementation of strategies for avoidance or correction of reading difficulties. **Contact: Pascale McCafferty, Education Extension (951) 827-1654-Funding Source: Self Support**

Reading and Language Arts Specialist Credential

This credential allows candidates who complete the program to provide appropriate content knowledge, skills and experiences for individuals who want to assume a leadership role at a school site, district or county level. The program emphasizes research skills, ways to assist students experiencing difficulties learning to read, and ways to present professional development to improve reading instruction and facilitate decision making for selection, adaptation and application of instructional materials. **Contact: Pascale McCafferty, Education Extension (951) 827-1654-Funding Source: Self Support**

REU (Research Experiences for Undergraduates)

The Center for Plant Cell Biology (CEPCEB) in association with the Institute for Integrative Genome Biology at the University of California, Riverside is committed to providing fulfilling research experiences to undergraduates. As a National Science Foundation Research Experiences for Undergraduates (REU) Site, CEPCEB provides research experiences to students of two- and four-year colleges who have limited opportunity to learn about the excitement and career options in plant cell biology. Eight to twelve qualified students participate in stimulating ten-week residential summer research programs. Each student has a faculty and a graduate or postgraduate mentor. In the initial week of the program, students are introduced to the basics of plant cell biology as well as developing areas in plant cell biology in which UCR has expertise, including genomics, proteomics and bioinformatics, through a series of lecture/laboratory exercises. Students then spend nine weeks on a research project of their choice. To further enrich the students and to guide them toward graduate studies, students participate in workshops to enhance learning skills and professional development, and to discuss ethics in science. In addition to the ten-week research experience, a three-week summer laboratory course called Arabidopsis Biology is offered. During this course, students use Arabidopsis to study basic concepts in plant biology. Students who complete this course are given priority for admission to the 10-week research experience the following summer, although the course is not a prerequisite. The anticipated impacts of the NSF-sponsored REU include an increased awareness of research options in the broad area of plant cell

biology and expanded research opportunities for students at "Hispanic Serving Institutes" and "Minority Post Secondary Institutes" in Southern California. **Contact Dr. Julia Bailey-Serres (951) 827-3738 or the Center for Plant Cell Biology (951) 827-2152-Funding Source: National Science Foundation**

Riverside Unified School District Science and Engineering Fair

The College of Natural and Agricultural Sciences hosts the Riverside Unified School District Science Fair. Nearly 300 projects are presented each year at the University of California, Riverside's facilities allowing greater access for public viewing than is possible in a public school setting. More than 35 faculty each year serve as judges for the junior and senior divisions of the fair. Faculty working independently from the college, advise and guide students in their projects for science fair and other science competitions. **Contact: Mindy Matthew (951) 827-4597 or Carol Lerner, College of Natural and Agricultural Sciences (951) 827-5089-Funding Source: College of Natural and Agricultural Sciences, Riverside Unified School District and Bourns, College of Engineering**

San Bernardino CARES Project

The goal of SBC-CARES is to provide or support educational services and provide incentive stipends to eligible family child care providers and staff at eligible child care centers. Stipend amounts vary based upon experience, training hours, Early Childhood Education units and longevity at current center of family child care home. **Contact: Dr. Margi Wild, CONNECTIONS Project Office, Education Extension (951) 827-5995-Funding Source: First "5", San Bernardino, State of California**

San Bernardino CONNECTIONS Project

An educational program designed to recruit new child development students and support early care professionals, including teachers and caregivers working in licensed and license-exempt setting. The program offers five pathways of educational support and teaches the skills necessary to advance young children's development, improve the quality of care, and encourage progression along the childcare career ladder. **Contact: Dr. Margi Wild, CONNECTIONS Project Office, Education Extension (951) 827-5995-Funding Source: First "5", San Bernardino, State of California**

SUP (School University Partnership Initiative)

SUP is a program that provides UCR undergraduates with a paid apprenticeship to engage with low performing high minority high schools and their surrounding community. The focus will be on opportunities to expand written and oral communication skills and the mastery of good citizenship attributes Apprentices will cultivate activities that focus K-12 students on college eligibility goals and provide them with a 'road map' and 'roadside assistance' for the journey especially in the needy area of mathematics. **Contact: Mary Eggers-Simons, ALPHA Center (951) 827-7034-Funding Source: ALPHA Center**

Science for Educators Certificate Program

The Certificate in Science for Educators program provides K-12 educators with practical knowledge of theories, science content and instructional methods for teaching science. This certificate program, co-sponsored with the Inland Area Science Project, has been designed in response to recommendations from state and national educational groups to more effectively meet the changing needs of teachers and students. The certificate program includes emphasis on science content, assessment, science skills, conceptual understanding, problem-solving strategies, the applications of new technology, and hands-on activities that assist students in solving problems from science situations that occur within the real world. **Contact: Annette Webb, Education Extension (951) 827-1653-Funding Source: Self-Support**

SMI (Science/Mathematics Initiative)

California Teach Science/Mathematics Initiative (CaTEACH-SMI) is a program designed to increase the number of highly qualified teachers in California classrooms by providing academic and career planning. Through SMI, pre-teacher candidates will have as undergraduates, the opportunity to: 1) participate in field experiences in K-12 classrooms. 2) participate in a peer-mentor program. 3) complete foundation Education courses. 4) and explore multiple pathways to become a science or mathematics teacher. **Contact: Leslie Bushong, College of Natural/Agricultural Science, (951) 827-4970-Funding Source: UC Office of the President**

Science QUEST (Queries to Understanding Excellence in Science Teaching)

Science QUEST is a summer intensive program for teachers that want to rediscover the wonders of science. The Academy fosters an integrated approach to teaching science with emphasis on current science topics. Science QUEST is where teachers create a community of learners and the learning encourages deep thinking, exploration and analysis. Teachers are given a stipend along with a professional library of resource materials to be used in the classroom. **Maria Chiara Simani, ALPHA Center, (951) 827-7932**

Secondary Mathematics Blended Program

A faster track to teaching for students who take education and mathematics courses as undergraduates, thus earning a degree in mathematics and a mathematics teaching credential. Public School field experiences are combined with coursework and candidates are eligible for paid internships upon earning a B.A. **Contact: Dr. Ann Jones, Graduate School of Education (951) 827-5590-Funding Source: William Randolph Hearst Endowed Scholarship Fund**

Society of Women Engineers

The goal of this program is to develop programs to enable our members to improve their leadership, time management, communication and problem solving skills, encourage girls and women to study engineering, provide women with a sense of belonging in the College, the

University, the community and in the field of engineering, demonstrate the value of diversity and teamwork, promote the engineering profession as a positive force in improving the quality of life. **Contact: Dr. Sharon Walker, Dept. of Chemical and Environmental Engineering (951) 827-6094**

STEP (Science Technology Education partnership Conference)

This conference is spearheaded by Congressman Ken Calvert in partnership with UCR and business leaders. The intent is to expose 4th through 8th grade students to STEM fields and teachers to innovative teaching strategies. **Contact: Candy McReynolds, ALPHA Center (951) 827-4899 -Funding Source: Private Donations**

Subject A High School Outreach Program

Works with local high school students (mostly juniors) to help them prepare for the UC Subject A entrance test. A sample essay test is given to students ahead of time and trained teachers (usually from the English Department) will grade the essays then visit the class to discuss the results and present the students with ideas to improve their essays. Funding is provided by schools who sign up for the visits. Last year, we visited more than 75 classrooms and helped more than 2,600 students. **Contact: Dr. John Briggs, English Department, Dr. Martha Plender, Denise Alvarez (951) 827-3666-Funding Source: California Subject Matter Project**

Summer Academy for Advanced High School Students

The Summer Academy is an opportunity for advanced high school students to attend a University of California, Riverside class during one or both five-week summer sessions and to earn full University of California credits and grades. Students must have completed at least the 9th grade with a 3.5 G.P.A. and have a recommendation from a counselor or teacher. **Contact: Mely Fitzgerald, Extension Summer Sessions (951) 827-7128-Funding Source: Self-Support**

Summer Bridge Fridays in Engineering

Incoming engineering freshmen participating in the UCR summer bridge program are invited to take part in Friday activities aimed at building connections with students and professors in the College. Offerings include team building exercises, success strategies workshops, research center tours, projects with faculty, and social activities. **Contact: Tara Brown, College of Engineering (951) 827-2577-Funding Source: Bourns College of Engineering**

SUNRISE REU

SUNRISE REU program is committed to offering undergraduates challenging and unique research opportunities that explore the diverse, interdisciplinary nature of nanotechnology. Students are fully immersed in the research laboratory, collaborating with their faculty mentors and teams and using state-of-the-art equipment. These projects engage the student and provide the opportunity to see how biomedical, physical and engineering knowledge is applied to produce significant and tangible results. Each project is overseen by one of UCR's faculty members. The faculty has broad experience in multiple disciplines, and is nationally recognized for their contributions and publications in the fields of nanotechnology. They are also exceptionally committed to developing the role of undergraduates in the research process and will be acting as mentors to their assigned students. **Contact: Junlan Wang, College of Engineering (951) 827-6429-Funding Source: National Science Foundation**

Supplementary Authorization in Computer Concepts and Applications

Extension has been approved by the California Commission on Teacher Credentialing to offer technology courses acceptable toward a supplementary authorization in computer concepts and applications. Upon completion of courses, the holder of a valid Multiple or Single Subject Teaching Credential may add the subject of Computer Concepts and Applications to his or her credential and is authorized to teach departmental classes in computer concepts. **Contact: Annette Webb, Education Extension (951) 827-1653 Funding Source: Self-Support**

Supplementary Authorization in Mathematics for Teachers

Courses have been approved by the Commission on Teacher Credentialing as acceptable units towards a supplementary authorization in mathematics. Upon completion of courses, the holder of a valid Multiple Subject or Standard Elementary Teaching Credential may add the subject of "Mathematics" to his/her credential and are authorized to teach departmentalized classes in mathematics to grades K-9. **Contact: Annette Webb, Education Extension (951) 827-1653 -Funding Source: Self-Support**

Supplementary Authorization in Introductory Science

The courses have been approved by the Commission on Teacher Credentialing as acceptable units towards a supplementary authorization in science. Upon completion of courses, the holder of a valid Ryan Multiple Subject or Standard Elementary Teaching Credential may add the subject of "Introductory Science" to his/her credential and are authorized to teach departmentalized classes in general science to grades K-9. **Contact: Annette Webb, Education Extension (951) 827-1653-Funding Source: Self-Support**

Technology in Education Certificate Program

The program has been developed for teachers, administrators, resource and program specialists, and counselors at all levels of education. The purpose of the program is to assist educators in understanding how to integrate educational technology into the school curricula. Completion of the program will enable educators to utilize specific technologies within educational settings. **Contact: Annette Webb, Education Extension (951) 827-1653 Funding Source: Self-Support**

UC LEADS (University of California Leadership Excellence in Advanced Degrees)

The University of California recognizes its responsibility to educate California's future leaders and continually seeks to attract to its undergraduate programs individuals having a broad range of socioeconomic, cultural, ethnic, racial, linguistic, and geographical backgrounds. Increasingly, leaders must have a post-baccalaureate education. UC LEADS is designed to identify educationally or economically disadvantaged undergraduates pursuing courses of study in science, mathematics, or engineering who are likely to succeed in graduate school. This program provides students with educational experiences that prepare them to assume positions of leadership in industry, government, public service and academia following the completion of a doctoral degree, preferably, at the University of California. **Contact: Maria Franco-Aguilar, Graduate Division (951) 827-3680-Funding Source: UC Office of the President**

UCR's Communities for Virtual Research

This program offers computer-training programs to Riverside community members. Our mission focuses on fostering the continual acquisition of skills and knowledge that are part of life-long learning. Training programs are designed to promote an awareness and provide access to changing technologies and its impact on our lives. A wide variety of structured and unstructured services address the technological needs of the community to promote employment enrichment training, improving student's compositional, computational and computer skills, including documenting, identifying and the recording of "community funds of knowledge" for Riverside's under-served communities. **Contact: Jacalyn Lopez-Garcia, Community Digital Initiative (951) 827-3852-Funding Source: UCR Extramural Funds**

UCR Model United Nations

This program combines classroom instruction on the United Nations with extensive simulation and role-playing exercises. The University of California, Riverside Model United Nations club annually holds one of the oldest high schools Model United Nations Conferences in the nation. In 2000, the conference celebrated its 33rd anniversary. The conference allows high school students to interact with college students, and to practice the arts of diplomacy, negotiation, and speech making as they role-play the countries of their choice. **Contact: Dr. Jani Aragon, Department of Political Science (951) 827-5019**

UCR Space Science and Engineering Day

NASA's Jet Propulsion Laboratory and the Riverside Astronomical Society sponsor a fun solar system community event for 1,000 UCR faculty, staff and their families, and the San Geronio Girl Scouts. The goal of this event is to engage children 5-12 years old in hands-on activities that will increase their interest in the areas of science and engineering. Activities allow Girl Scouts to earn various badges. **Contact: Junlan Wang, College of Engineering (951) 827-6429-Funding Sources: Bourns College of Engineering**

UECC AmeriCorps Project (University Eastside Community Collaborative)

The University Eastside Community Collaborative (UECC) AmeriCorps Project is a collaborative Partnership between University of California, Riverside, the City of Riverside, and the Riverside Unified School District. It is housed within the Early Academic Development Programs office. It is part of the AmeriCorps network of national service programs. The UECC was formed to offer solutions to the effects of crime, poverty and violence in East Riverside through diversionary after school academic and recreational programs and service work to strengthen the community. A team provides tutoring in language arts to elementary, middle and high school students at three elementary, one middle and one high school. Algebra tutoring is also provided to high school students. The program also provides several educational field trips for program students. The team also assists local community based organizations with a variety of community service projects including city clean-up, and tree plantings. A portion of this year's team will also recruit volunteers to be trained in emergency preparedness. In exchange for a commitment of either 450 or 900 service hours, UECC AmeriCorps members receive a modest living stipend and an educational award to use towards their own educational costs, along with more than 200 hours of valuable training through University of California, Riverside professors and community professionals. **Contact: Joshua Maher, Early Academic Development Programs (951) 827-2514, Betty Benzor, Early Academic Development Programs (951) 827-2040-Funding Source: Federal Corporation for National and Community Service and three UECC partners, UC Riverside, City of Riverside and the Riverside Unified School District**

University Honors Program

The University Honors Program (UHP) is divided into two key components: the Lower Division Program for first and second year students and the Upper Division Program for juniors and seniors. The UHP lower division curriculum provides honors students with special seminars, projects, and classes designed to introduce them to the challenges and rewards of scholarship and research. With fewer students than most introductory classes, these honors courses intensify the students' contact with some of the most enthusiastic and innovative faculty members at UCR. To complement the lower division, the upper division program builds on the foundation of close student-faculty relationships. Upper division students continue to pursue their academic interests by producing a substantial honor theses or project under the supervision of faculty mentors. In both the lower and upper division years, the UHP encourages honor students to take an active role in shaping their education. The UHP stresses the concept of "service-learning." and support student involvement in an array of Personal Growth and Community Services Projects. The UHP invites applications from all well-prepared and highly motivated students who plan to excel in UCR's challenging academic environment. **Contact: Howard Wettstein or Kathryn Jones, University Honors Program (951) 827-5324-Funding Source: Executive Vice Chancellors Office, U C Riverside**

University Library: Project Connect

University of California, Riverside's Library Outreach Services provide training and access to MELVYL, the UC systems Online catalog, Scotty, University of California, Riverside's online catalog, and INFOMINE, a collection of more than 14,000 academically valuable resources to the K-12 community. Internet training and consultation, sessions in searching the Internet, advance searching, HTML and Web page design are also available. A web site containing more than 1,000 links to K-12 educational sites on the Internet is maintained

by Project Connect. Area teachers and administrators may obtain a library card with borrowing privileges for five items for two weeks (must provide identification and proof of employment when applying for a library card). **Contact: Julie Mason, Outreach Services, Rivera Library (951) 827-2817**

Upward Bound

One of the oldest TRIO programs, Upward Bound is a highly successful, college based program of rigorous academic instruction, individual tutoring and counseling for low-income, disadvantaged high school students, most of whom are the first generation of their families to consider a post-secondary education. One hundred twenty students participate in visitations to universities, attend cultural trips, and take part in a six-week summer residential program at UC Riverside. This program is offered to students that attend any of the following high schools: Rubidoux High School, North High School, Perris High School, Moreno Valley High School, Banning High School, and Beaumont High School. **Contact: Francis Calvin, Early Academic Development Programs (951) 827-2040-Funding Source: US Dept. of Education**

Young Writers Camp

The IAWP works with students from 7th grade and up to help them improve their writing skills during the summer months. Two one-week programs are offered - Creative Writing and Academic Writing. Trained IAWP Teacher Consultants run the program. Funding is provided by students who enroll in the camps. **Contact: Dr. John Briggs, Dr. Martha Plender, Denise Alvarez, English Department (951) 827-3666-Funding Source: California Subject Matter Project**

Young Writers Program

The IAWP works with teachers and their students in the Coachella Valley area. Elementary school-aged children will make trips to the Palm Springs Desert Museum and use the artwork there to help inspire their writing. A good portion of the program is geared toward children whose parents are migrant farm workers because they face the special challenges that come with moving from school to school on a regular basis. Funding for this program comes from both the CWP and NWP grants the IAWP receives. **Contact: Dr. John Briggs, Dr. Martha Plender, Denise Alvarez, English Department (951) 827-3666-Funding Source: California Subject Matter Project**