



School Partnership Programs

UW-MADISON GRASSROOTS PARTNERSHIP PROGRAMS WITH MADISON-AREA SCHOOLS
SECOND EDITION

A Report from the Office of the Chancellor
University of Wisconsin-Madison

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This report

School Partnership Programs was produced by Noel Radomski and Kecia Dixon, Office of the Chancellor, with assistance from the Office of News and Public Affairs.

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August 1997

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UW-Madison provides curriculum development and continuing education programs that bring the latest research on teaching and learning to professionals in area schools. In light of rapid changes in the field of education, UW-Madison also has developed professional development programs to improve the performance of school staff. This section highlights examples of both curriculum development and staff professional development programs.

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From Chancellor David Ward

UW-Madison Partnership Programs With Madison-Area Schools



“Whether for a summer science institute, a leadership workshop, a computer camp or a music clinic ... the university and its human resources have been marshalled to expand horizons and enrich the lives of area children.”

Each year, faculty, staff and students at the University of Wisconsin-Madison make connections with Wisconsin citizens. In fact, we view these partnerships as some of our most important work.

The best measure of these activities — from partnerships with business and industry, to collaborations with communities and school districts — may be the degree to which they are beneficial locally. While we serve the rest of the state and nation, we also are committed to being good neighbors.

At UW-Madison, we are fortunate to offer many events and programs that appeal to people of all ages. Our challenge is to convey effectively the broad range of opportunities here to the citizens who can make best use of them.

As you will learn in this report, some of the university’s most successful relationships involve Madison-area schools. These partnerships on behalf of K-12 pupils are traditionally based in our nationally top-rated School of Education. However, we encourage collaborations that cross our traditional academic boundaries. You will see that our programs engage every school and college on the Madison campus.

Last year, more than 14,000 Madison-area young people attended one or more programs in an amazing array of learning enhancement and enrichment choices. Whether for a summer science institute, a leadership workshop, a computer camp or a music clinic — or one of dozens of other programs — the university and its human resources have been marshalled to expand horizons and enrich the lives of area children.

The 100 programs highlighted here are representative of an evolving list of offerings. In addition to those featured, other programs are under development. For example:

- A new initiative will enhance and coordinate current precollege programs, making it possible for more young people to be introduced to college long before they reach college age.
- Our Office of Precollege Programs and the Undergraduate Admissions Office are strengthening their connections to assure that young Wisconsin citizens can make a smooth transition from their first experience on campus to enrolling as a college student.
- A Council on University-Schools Partnerships will be formed to identify community needs and make connections with university resources.

Working together to stimulate the minds of our community’s children and to allow them to move confidently into adulthood is one of the most important and rewarding steps we can take as a university. I invite your thoughts as we work to achieve these goals.

From Dean of Education Charles Read

Grassroots University-School Partnership Programs



“School of Education faculty, staff and students will continue to work side-by-side with their partners in the schools to improve learning.”

If I were to ask you to imagine our School of Education’s activities in Madison-area schools, you might think of:

- a student teacher, experiencing his or her introduction to the profession;
- a team of researchers, observing and analyzing classroom practices;
- a professor or staff member serving on a curriculum advisory

committee.

Of course, members of the School of Education engage in activities like these every day. However, in addition to these expected functions, our faculty, staff and students have developed numerous projects to improve students’ learning and to assist teachers and administrators in Madison-area schools.

We are proud of our formal training, research and public service efforts in the Madison area, efforts which continue to grow in breadth, depth and integration. We are equally proud of the many School of Education faculty, staff and students who have, on their own initiative, created grassroots programs in partnership with Madison-area school staff.

School of Education partnerships with local schools evolve continually, in response to changing needs. Today they include:

- Programs to promote precollege students’ learning, such as Upward Bound, which each year enrolls 65 minority high school students for intensive daily tutoring;
- Initiatives in teacher training, such as the Grow Your Own Program, which began in 1994 and has enabled more than 20 minority non-teaching personnel from the Madison Metropolitan School District to enroll at the UW-Madison in teacher preparation programs;
- Professional development opportunities offered by our Office of Education Outreach, which provide continuing educational opportunities for more than 1,000 children and 3,500 adults annually.

Such programs have been developed to meet the specific needs of students and staff in Madison-area schools, and they have blossomed in the broad areas where interests and expertise at the university intersect with those in our schools. As a result, these grassroots programs are notable for energy and excitement.

What follows is a representative summary of such university-school partnerships in the greater Madison area. Although these programs will evolve, one characteristic will endure: School of Education faculty, staff and students will continue to work side-by-side with their partners in the schools to improve learning.

Student Learning Enrichment and Enhancement Programs

The declining number of students who successfully make each transition between elementary school, middle school, high school and college is of increasing concern to the Madison community. To contribute the community efforts to improve student achievement, in 1996 UW-Madison delivered more than 60 learning enrichment and enhancement programs that benefited more than 14,000 Madison-area elementary and secondary students.

UW-Madison faculty, academic staff and students in every school and college provide a wide spectrum of learning enrichment and enhancement programs for public school students. Learning *enrichment* programs introduce students to new opportunities in a wide array of academic areas, including mathematics, science, computer science, biology, English and engineering. Learning *enhancement* programs, on the other hand, involve intervention and improvement of students' basic skills in the sciences, humanities and social sciences.

In addition, students have participated in a variety of museum programs, hands-on field experiences, and sports enrichment programs that introduce Wisconsin girls and boys to a variety of athletic pursuits.

Enrollments include:

- **Academic and Cultural Enrichment and Enhancement Programs**
 - 1996-97: 62 programs serving more than 14,000 students
 - 1995-96: 53 programs serving more than 13,000 students
 - 1994-95: 48 programs serving more than 11,474 students
 - 1993-94: 54 programs serving more than 9,200 students
- **Sports Programs**
 - Summer 1996: 10 programs serving more than 7,051 students
 - Summer 1995: 13 programs serving more than 6,008 students
 - Summer 1994: 11 programs serving more than 6,099 students
 - Summer 1993: 11 programs serving more than 4,980 students

A representative sample of learning enrichment and learning enhancement programs for precollege students is found on the following pages. The examples include a short description of the program and the number of students enrolled. Due to the breadth and depth of these programs, it is not a comprehensive list. The campus continues to develop precollege programs as federal, state and private grants become available.

Student Learning Enrichment and Enhancement Programs

1. SATURDAY ENRICHMENT PROGRAM

This School of Education enrichment program provides Madison-area students in grades 1-4 and 5-8 an opportunity to participate in a variety of six-week courses offered three times a year. Enrichment programs cover a myriad of subjects, including physics, technology, architecture, languages, arts, music and mathematics.

- Fall 1996: 348 students
- Summer 1996: 80 students
- Spring 1996: 728 students
- Fall 1995: 357 students

Student Learning Enrichment and Enhancement Programs

2. COLLEGE FOR KIDS

College for Kids is an exciting learning experience that seeks to develop and challenge the gifts and talents of young students in grades 5-6. This three-week program of workshops, demonstrations, tours and discussions is sponsored by the School of Education, with the cooperation of the Dane County school districts and the UW-Madison faculty and administration. College for Kids is an enrichment experience in active learning for highly motivated children. A parent component and a seminar for teachers are offered concurrently.

- Summer 1996: 271 students
- Summer 1995: 227 students

3. UPWARD BOUND

This “reaching out” program in the School of Education assists first-generation college-bound and low-income students with higher education goals. The program includes tutoring, counseling, exploring career alternatives, developing study skills, and participating in university and community activities.

- Summer 1996: 60 Madison students
- Summer 1995: 62 Madison students
- Spring 1995: 69 Madison students

4. POSTSECONDARY ENROLLMENT OPTIONS PROGRAM

Administered by the Division of Continuing Studies, the program allows high school students to enroll for credit at the university. Students enroll as non-degree university special students through the division, and are assigned an academic advisor and participate in an orientation program through the Office of University Special and Guest Students.

- Fall 1996: 45 students
- Spring 1996: 37 students
- Fall 1995: 35 students

5. MIDDLE SCHOOL COLLEGE ACCESS PROGRAM

The College Access Program, offered by the School of Education, targets middle school students with small group and individualized activities, testing and assessment in writing, mathematics and careers exploration, and an emphasis on study skills. The program is designed to increase the number of students of color and disadvantaged students who matriculate at UW-Madison (and other post-secondary institutions). The program exposes high school students to information and experiences that orient them to the UW-Madison campus and college life.

- Summer 1996: 72 students
- Summer 1995: 39 students

Student Learning Enrichment and Enhancement Programs

6. ACADEMIC SKILLS DEVELOPMENT WORKSHOP

This School of Education workshop is a residential program designed for minority high school students who wish to learn fundamental writing and problem-solving skills. The program acquaints students with UW-Madison admission requirements, financial aids, college majors, students services, and orientation to the university and Madison.

- Summer 1996: 22 students
- Summer 1995: 26 students

7. SUMMER SCIENCE INSTITUTE (SSI)

The Center for Biology Education's Summer Science Institute is a seven-week residential precollege program designed to enhance student language arts, data analysis and computer skills in the context of scientific research. Students also develop an understanding of the nature of scientific inquiry and research as a means of learning science. The long-range goals of the SSI are to enhance student interest in the natural sciences; increase the number of ethnic minorities pursuing post-secondary education and careers in science; and increase the students' likelihood of success in post-secondary education and careers in science.

- Summer 1996: 34 students
- Summer 1995: 23 students

8. NASA SHARP PLUS PROGRAM

The NASA Sharp Plus Program is a national summer research apprenticeship program in science/engineering fields for grades 11-12 minority and underrepresented students. Participants are selected by the Quality Education for Minorities Network (QEM).

- Summer 1996: 21 students

9. SUMMER RESEARCH APPRENTICE PROGRAM — MEDICINE

The School of Medicine's Research Apprenticeship Program is a six-week precollege experience for Dane County minority high school students. Students participate in research under the supervision of a faculty mentor who is matched to the student's academic interests. Most research takes place in standard university laboratories, although some work requires off-campus trips or placement. Students participate in weekly seminars, lectures and tours.

- Summer 1996: 8 students
- Summer 1995: 21 students

10. SUMMER RESEARCH APPRENTICE PROGRAM — SCHOOL OF PHARMACY

The School of Pharmacy's SRAP introduces minority high school students to biomedical research and the health professions. The high school students work collaboratively with faculty members, post-doctoral researchers and graduate students.

- Summer 1996: 5 students
- Summer 1995: 5 students

Student Learning Enrichment and Enhancement Programs

11. RESEARCH APPRENTICE PROGRAM — SCHOOL OF NURSING

This School of Nursing program is an eight-week precollege experience designed to introduce minority high school students to scientific research and to the university. Under the supervision of a faculty mentor, students participate in research matched to their academic interests.

- Fall 1996: 1 student
- Summer 1996: 3 students
- Spring 1996: 1 student

12. SUMMER RESEARCH APPRENTICE PROGRAM — SCHOOL OF VETERINARY MEDICINE

The School of Veterinary Medicine's SRAP exposes minority students to veterinary medicine through scientific research, laboratory experiments, and animal care and handling. It also exposes students to science and college settings to encourage them to pursue higher education and a science career.

- Summer 1996: 8 students
- Summer 1995: 11 students

13. HIGH SCHOOL STUDENTS — UNIVERSITY SPECIAL STUDENTS

Each semester, including summer sessions, students with junior standing and strong high school academic records may enroll in university courses for credit through the Division of Continuing Studies. The students are admitted as University Special students and receive academic advice and orientation through the Office of University Special & Guest Students.

- Fall 1996: 18 students
- Summer 1996: 21 students
- Spring 1996: 23 students

14. WISCONSIN CENTER FOR ACADEMICALLY TALENTED YOUTH SENIOR PROGRAM

The WCATY Senior Program, a privately funded program administered by the Division of Continuing Studies, is an intensive residential and academic experience offering an excellent preview of college. Students live for three weeks on the UW-Madison campus, studying one course either in the sciences or humanities. Three college credits may be earned. Students have full access to university facilities, including libraries, computer labs and recreational areas. Instructors are university faculty.

- Summer 1996: 16 students
- Summer 1995: 15 students

15. CHEMISTRY CAMPS

Located in the College of Letters and Science, the Department of Chemistry's Institute for Chemical Education (ICE) offers an afternoon laboratory program in chemistry for middle school students entering grades 6-8. Fun With Chemistry Camp is designed to stimulate scientific curiosity through demonstrations, experiments and other hands-on activities.

- Summer 1996: 115 students
- Summer 1995: 160 students

Student Learning Enrichment and Enhancement Programs

16. EXPANDING YOUR HORIZONS

Sponsored by School of Education, College of Engineering, other colleges at UW-Madison and Madison Area Technical College, the one-day annual conference provides opportunities for south-central Wisconsin young women in grades 7 and 8 to explore careers that use math and science. Students participate in hands-on career sessions and have the chance to talk with women who work in careers that require a background in math, science or engineering.

- Fall 1996: 201 students
- Fall 1995: 216 students

17. CENTER FOR HEALTH SCIENCE SUMMER ENRICHMENT PROGRAM

The Center for Health Science's Summer Enrichment Program provides an opportunity for minority and disadvantaged middle school students to explore the sciences and mathematics through classroom instruction, laboratory experiments and field trips. The program emphasizes natural science topics such as chemistry, biology and mathematics, and includes areas of study from anatomy (plant and human) to zoology.

- Summer 1996: 89 students
- Summer 1995: 94 students

18. TECHNOLOGY AND THE ARTS

The School of Education's Technology and the Arts program is designed for middle school students. The program focuses on the integration of technology and the arts, with exploration in the areas of architecture, dramatic arts, and computer and visual arts.

- Summer 1996: 66 students

19. MATH MEET

This Math Department program hosts teams of 5th and 6th graders for the UW Math Meet. Each team, consisting of eight students, has won a regional meet prior to coming to the UW Math Meet. The preliminary competition is organized by the Talented and Gifted (TAG) Coordinators at the schools.

- Summer 1997: 72 students; 9 schools

20. 4-H AGRI-SCIENCE WORLD

This four-day, three-night program is designed for 4-H youth ages 15-18 who are interested in agriculture and natural resources. Participants must be recommended by state and county 4-H staff. The program consists of field trips, lab experiences, and campus and industry tours. Students also present a current topic in agriculture to their peers at the conclusion of their program.

- Summer 1996: 18 students
- Summer 1995: 28 students

Student Learning Enrichment and Enhancement Programs

21. WISCONSIN 4-H AND YOUTH CONFERENCE

This educational program is open to 4-H members ages 14-16. Delegates are selected through UW-Extension offices in the winter and spring. Seminars and assemblies are held at UW-Madison.

- Summer 1996: 800 students
- Summer 1995: 840 students

22. SUMMER WORKSHOP IN EARTH AND ATMOSPHERIC SCIENCES

Co-sponsored by the Cooperative Institute for Meteorological Satellite Studies (CIMSS) and the UW-Madison Wisconsin Space Grant Consortium, the focus of the four-day workshop is to acquaint high school students and teachers with the earth and atmospheric science professions; demonstrate modern satellite and computer-based tools used in operations, scientific research and education; and demonstrate the relationship between scientific disciplines. Teachers and students are introduced to key topics in the Mission to Planet Earth by faculty and research staff, and learn research methods and modern tools to investigate these topics. Each session emphasized hands-on activities, such as a field trip to study ice-age geological features, or using computer systems to develop weather forecasts with McIDAS (Man-computer Interactive Data Access System). The group gains a better understanding of multi-disciplinary problems, such as the earth-atmosphere radiation budget and the hydrologic cycle, through discussion and construction of display materials. Teachers are provided with ideas and materials to take back to their classrooms.

- 1996: 34 students
- 1995: 14 students

23. ENGINEERING TOMORROW'S CAREERS SUMMER CAMP

The College of Engineering's Engineering Tomorrow's Careers Summer Camp is a six-day, five-night residence camp for high school girls who have just finished 11th grade and are interested in the engineering profession. The camp introduces the various disciplines within the field of engineering.

- Summer 1996: 69 students
- Summer 1995: 45 students

24. MINORITY PRECOLLEGE COMPUTER CAMP

This Department of Computer Science program is targeted to students who have completed grade 6 or 7. The program, which contains a morning academic component and an afternoon field trip, provides a stimulating introduction to the computer and some of its significant uses. Activities involve word processing, graphic arts and design, and the incorporation of sound and computer programming.

- Summer 1996: 20 students
- Summer 1995: 20 students

Student Learning Enrichment and Enhancement Programs

25. ENGINEERING SATURDAY FOR TOMORROW'S ENGINEERS AT MADISON

This College of Engineering program is designed to allow high-ability students and their parents to spend a Saturday on the College of Engineering campus. The day includes a general introduction to the college, and information on housing, scholarship, financial aid, research opportunities and academic programs. Visiting students talk with UW-Madison students, meet with professors, perform experiments, tour college labs and ask questions of college administrators.

- Fall 1996: 76 students
- Spring 1996: 64 students
- Fall 1995: 67 students

26. BADGER GIRLS STATE

The Badger Girls State is a residential program emphasizing government and leadership training for girls entering grade 12. Delegates are selected by local high schools.

- Summer 1996: 754 students
- Summer 1995: 750 students

27. NURSING PRECOLLEGE PROGRAM FOR MINORITY MIDDLE SCHOOL STUDENTS

This School of Nursing residential program is designed to acquaint minority/disadvantaged middle school students with career opportunities in nursing and with UW-Madison. Students observe nurses in a variety of health care settings in addition to participating in experiences in a nursing skills laboratory.

- Summer 1996: 12 students
- Summer 1995: 15 students

28. GEOLOGY FOR KIDS

Offered through the Department of Geology and Geophysics, the summer program for children entering grades 4-5 covers topics such as rocks and minerals, plate tectonics, the Ice Age, fossils and dinosaurs. Through presentations, slide shows and museum tours, children learn information that is reinforced through hands-on activities.

- Summer 1996: 10 students
- Summer 1995: 20 students

29. JUNIOR SCIENCE, ENGINEERING AND HUMANITIES SYMPOSIUM

This symposium is a two-day, expense-paid program that includes seminars, demonstrations, visits with research scientists, workshops for high-school students and teachers, and student research presentations. The symposium's goal is to promote research and experimentation in the sciences, mathematics and engineering at the high-school level. Emphasizing the active processes and applications of scientific inquiry and investigation, the symposium introduces teachers and students to areas of exciting research they might otherwise not encounter, and updates teachers on the latest advances in various scientific and mathematical areas. The symposium is sponsored by UW-Madison Office of Undergraduate Admissions, the Academy of Applied Science, the U.S. Army Research Office and the U.S. Office of Naval Research.

- 1997: 140 participants (115 students, 25 teachers)
- 1996: 124 participants (98 students, 27 teachers)

Student Learning Enrichment and Enhancement Programs

30. ENGINEERING SUMMER PROGRAM

This College of Engineering program is a seven-week residential program that gives high school junior and senior students of color an opportunity to explore engineering careers while preparing for college-level study. Participants take college-preparatory courses taught in UW-Madison classrooms and laboratories by faculty members in math, science and engineering.

- Summer 1996: 15 students
- Summer 1995: 28 students

31. AGRICULTURE AND NATURAL RESOURCES “WORKING TOGETHER”

The College of Agricultural and Life Sciences’ Marshfield Ag Research Station and the Marshfield Public School District introduce all 8th graders in the Marshfield School District to careers in agriculture and natural resources.

- Fall 1996: 300 students
- Spring 1996: 340 students

32. SPANISH FOR LITTLE ONES: BEGINNING — AGES 4-6

The Department of Liberal Studies program provides children ages 4-6 an opportunity to learn Spanish through conversations, short readings, practice exercises, songs and games.

- Summer 1996: 15 students

33. SPANISH FOR YOUNG PEOPLE: BEGINNING — AGES 7-11

The Department of Liberal Studies teaches children ages 7-11 Spanish through conversation, short readings, practice exercises, songs and games.

- Summer 1996: 15 students

34. ENVIRONMENTAL STUDIES WORKSHOP FOR NATIVE AMERICAN STUDENTS

This precollege program in the Institute for Environmental Studies is designed to stimulate the interests of Native American youth in environmental studies by offering a curriculum that integrates science and the technology of natural resources management with traditional Native American and western philosophies and cultural values. It is offered in conjunction with the Lac Courte Oreilles Ojibwa Community College.

- 1996: 12 students
- 1995: 15 students

35. PROJECT SEED

This College of Agricultural and Life Sciences, Center for Biology Education (CBE), program is a university-community-school partnership that engages elementary students in all aspects of gardening. In early 1996, CBE initiated a pilot urban garden project in conjunction with Mendota Elementary School and the Vera Court Community Center. UW researchers, master gardeners, garden clubs and area businesses work with CBE staff to spark the students’ interest in plants, food production, healthy eating and land stewardship.

- Summer 1996: 120 students

Student Learning Enrichment and Enhancement Programs

36. SUMMER MUSIC CLINICS

The College of Letters and Science's School of Music clinics offers performance and skill-building classes in music, band, orchestra, choir, musical theater and jazz ensemble. The classes are augmented by theory, history and other music-related class choices.

- Summer 1996: 1,143 students
- Summer 1995: 1,125 students

37. VIVA BRASIL: BUILDING BEAUTIFUL BRIDGES BETWEEN WISCONSIN AND BRAZIL

Developed by the Latin American and Iberian Studies Program, this year-long program includes workshops, performances, lectures and exhibits in the Madison Metropolitan School District, Children's Museum and UW-Madison.

- Spring 1996: 3,000 students
- Fall 1995: 2,000 students

38. CHORFEST

This School of Music program offers a select group of Wisconsin high schools the opportunity to perform for one another and with UW-Madison choirs. The program also provides an opportunity for high school students to work with university professors.

- Spring 1996: 400 students

39. OUTREACH — ARTS

Each term, the School of Education's Department of Art offers several art classes to young students. Examples include Drawing — Adults with Children, Drawing — Cartoons and Action Figures, and Drawing for Young Artists. The classes change from term to term.

- Summer 1996: 201 students
- Summer 1995: 139 students

40. DANCE FOR TEENS

The Division of Continuing Studies offers ballet, modern, jazz and many other dance classes for teens.

- Summer 1996: 64 students
- Summer 1995: 82 students

41. HOW TO STUDY IN MIDDLE SCHOOL AND HIGH SCHOOL

This School of Education program, offered each fall, encourages middle school and high school students to come to campus to learn the fundamentals of study strategies. The course is held for two hours on five Saturday mornings, and covers time management, note taking, organizing information, preparing for tests and survey research. Students create a study strategies manual to take home for future reference.

- Summer 1996: 70 students

Student Learning Enrichment and Enhancement Programs

42. BRIDGING THE GAP

This Division of Continuing Studies program, funded by the Madison Metropolitan School District, provides high school students an opportunity to receive guidance from UW-Madison faculty in carrying out research projects on the campus. High school students enroll in the summer as University Special non-degree students to carry Independent Study and Directed Reading courses from UW-Madison faculty. The students work in campus laboratories pursuing a research topic or project, carry out experiments, and write up and present the results.

- Summer 1996: 13 students

43. FAST PLANT BIOLOGY AT THOREAU ELEMENTARY SCHOOL

Professor Tom Osborn, College of Agricultural and Life Sciences, offers this program that includes conducting experiments using Fast Plants with 5th grade students at Madison's Thoreau Elementary School. Students are given seed containers and other materials for growing plants. Students are then allowed to develop their own experiments to answer a question of their choice. At the end of the project, students write a report including their results and conclusions.

- Spring 1996: 25 students

44. WISCONSIN FOOD SYSTEM PARTNERSHIP (SCIENCE EDUCATION AND EMPLOYMENT DEVELOPMENT PROGRAM)

This College of Agricultural and Life Sciences program brings people from the community and the university together in partnerships to build a more food-secure future for all. The program provides small grants and other support to community-university partners for a wide range of teaching, research and action projects. In fall 1996, the program began funding a program called the Science Education and Employment Development (SEED) program. SEED attempts to create pathways for underserved youth through a program that assists them in their science education from grade school through high school and beyond. The program currently includes Mendota Elementary, Sherman Middle School and East High School.

45. CREATING OUR OWN IMAGES VIDEO TRAINING PROGRAM

Sponsored by the Chicano Studies Program and the Latin American & Iberian Studies Program, this program teaches Madison school district students basic video production and post-production techniques. At the end of the 12-week program, students produce a 12-minute video on Madison's Latino community.

- Fall 1996: 5 students
- Spring 1996: 9 students

Student Learning Enrichment and Enhancement Programs

46. DANE COUNTY AREA YOUTH APPRENTICESHIP PROGRAM

UW-Madison participates in the Youth Apprenticeship Program, a new option that prepares Dane County students for the world-of-work. The program allows students to make the transition directly to the world-of-work or to further higher education without penalty for having participated in the program. The program is designed to provide area 11th and 12th grade students with an “industry specific,” integrated academic and work-based program. The coordinating agency is the CESA 2 Dane County Office, which serves school districts in Dane County.

Student Museum and Field Experiences

47. ELVEHJEM MUSEUM OF ART

The College of Letters and Science’s Elvehjem Museum of Art houses the university’s collection of more than 15,000 paintings, prints, drawings, sculpture and decorative arts, the earliest dating from 2300 B.C. It also presents related educational programs in support of the teaching, research and public service mission of UW-Madison.

- 1996-1997: 10,948 guided tour participants — 7,006 children and 3,942 adults

48. GEOLOGY MUSEUM

The College of Letters and Science’s Geology Museum provides educational programs for groups of all ages and backgrounds. Trained guides introduce visitors to the many facets of geology, including rocks, minerals and fossils.

- 1996: 472 tours; approximately 15,000 visitors

49. ARBORETUM

The 1,280-acre Arboretum, a research and teaching facility located south of the campus, includes world-renowned collections of restored, native Wisconsin plant and animal communities, as well as an extensive collection of woody plants. The Arboretum consists of more than 25 miles of woodland and prairie hiking trails, some of which are open for running and cross-country skiing.

- 1996-97: More than 25,000 visits

50. UW SPACE PLACE

The UW Space Place brings the world of UW research and scholarship to the public. The center, which specializes in astronomy and space science, offers K-8 workshops, lectures, children’s activities, special events, a summer camp, demonstrations and hands-on activities related to space science. The program is sponsored by the Space Astronomy Laboratory and the Department of Astronomy, with support from the College of Letters and Science, Department of Outreach and UW departments specializing in space sciences.

- Fall 1996: 1,862 participants
- Summer 1996: 792 participants
- Spring 1996: 2,686 participants

Student Learning Enrichment and Enhancement Programs

Student Sports Enrichment Programs

51. BADGER FOOTBALL CAMP

Elementary, middle and high school students have the opportunity to participate in one of the nation's finest football camps. Held in the Dave McClain facility and Camp Randall Stadium, the objective of the sessions is to improve football skills.

- Summer 1996: 819 participants
- Summer 1995: 900 participants

52. UW BADGER BOYS' BASKETBALL CAMPS

A summer basketball camp for boys, grades 2-12, that offers experience and instruction in basketball fundamentals. Guest speakers, contests such as one-on-one and three-point shooting, and plenty of basketball fun are provided.

- Summer 1996: 2,200 students
- Summer 1995: 1,300 students

53. WISCONSIN CAMP OF CHAMPIONS (TRACK)

The camp offers distance running training and instruction for boys and girls in middle and high school.

- Summer 1996: 181 participants
- Summer 1995: 162 participants

54. JIM FISHER'S DIVING TRAINING

The two-week summer program offers coed springboard diving training for children 10 years of age and older.

- Summer 1996: 29 participants
- Summer 1995: 39 participants

55. BARRY DAVIS' WISCONSIN WRESTLING CAMPS

Wrestling techniques, tactics and special seminars are presented to wrestlers, ages 7 to 18, using a systematic easy-to-learn format.

- Summer 1996: 691 participants
- Summer 1995: 785 participants

56. VOLLEYBALL CAMPS

Volleyball camp offers students the opportunity to develop and enhance their skills, as well as meet and play with other athletes.

- Summer 1996: 473 participants
- Summer 1995: 437 participants

Student Learning Enrichment and Enhancement Programs

57. WISCONSIN GIRLS' BASKETBALL CAMPS

The basketball camp teaches fundamentals of basketball, game strategies and working together. It is an intense time of learning, competing and making new friends.

- Summer 1996: 1,447 participants
- Summer 1995: 1,082 participants

58. WISCONSIN GIRLS' SOCCER CAMPS

The camp includes two residential soccer camps: regular (ages 11-16) and advanced (ages 14-18) that aim to advance soccer skills.

- Summer 1996: 381 participants
- Summer 1995: 437 participants

59. WISCONSIN GIRLS' SOFTBALL CAMPS

The camps emphasize the fundamentals of softball for girls ages 12-18. Three sessions are offered: ages 12-17, all ages and an offensive camp for ages 12-17.

- Summer 1996: 123 participants

60. BADGER BOYS SOCCER CAMPS

The program provides soccer skill development, tactical learning and fun for children under the guidance and direction of UW-Madison soccer coaches.

- Summer 1996: 707 participants
- Summer 1995: 550 participants

61. BADGER JUNIOR TENNIS CAMP

The objective of this program is to give participants the tools necessary to become complete players. UW-Madison's head tennis coach directs each session with the assistance of UW-Madison tennis team members.

- Summer 1996: 29 participants
- Summer 1995: 29 participants

62. BADGER SWIMMING CAMP

The camp emphasizes all aspects of competitive swimming, combining fundamentals and drills with conditioning training.

- Summer 1996: 74 participants
- Summer 1995: 90 participants

Preservice Teacher Education Programs

UW-Madison's School of Education is one of the top teacher education programs in the country. A strong university-schools partnership has served to improve the quality of preservice teacher education programs for Madison-area school districts. Collaborating with practicing teachers, the university's teacher-preparation programs merge the content of university courses with the practices necessary to meet challenges in the classroom.

63. UW-MADISON PRESERVICE TEACHER EDUCATION

In cooperation with local schools, UW-Madison places more than 1,300 students in student teaching placements, practicum opportunities and internships. About two-thirds of these are in the Madison Metropolitan School District. The School of Education affords university students with several teacher education program options as they study to become teachers.

- Fall 1995: 611 teacher assignments
- Spring 1996: 637 teacher assignments

Curriculum Development and Staff Professional Development Programs

Driven by a new understanding of how students learn, the technological revolution, and the need for an educated, creative, problem-solving workforce, a large number of private, state and national reports have called for school curricular reform. At UW-Madison, faculty and staff provide unique curriculum development and continuing education programs that bring the latest research on teaching and learning to the attention of professionals in area schools. Rapid changes in the field of education — driven by demands for improved student performance, significant technological advancements and calls for school curricular reform — have sparked debate about the content and delivery of professional development programs for school staff. Traditionally, the professional development programs have involved special summer workshops, conferences, internships, special courses and attendance at professional lecture series. At UW-Madison, a diverse mix of faculty, academic staff and graduate students also provide a wide spectrum of new, challenging professional development programs.

64. MATHEMATICS IN CONTEXT

Mathematics in Context is a comprehensive mathematics curriculum for grades 5-8 developed in collaboration with the Freudenthal Institute in The Netherlands and funded by the National Science Foundation. Project director is School of Education Professor Thomas Romberg. The curriculum reflects the content and pedagogy suggested by the National Council of Teachers of Mathematics (NCTM) *Curriculum and Evaluation of Standards for School Mathematics* and NCTM's *Professional Standards for Teaching Mathematics*.

The curriculum materials were field tested in classrooms in Madison, Verona and Stoughton in Dane County, in three other districts in Wisconsin, and in districts throughout the United States. Encyclopedia Britannica Education Corporation now publishes and markets the curriculum. It is now being used with nearly one million students in more than 400 school districts in the country.

65. COGNITIVELY GUIDED INSTRUCTION (CGI)

Cognitively Guided Instruction is a professional development program designed to help primary grade teachers understand children's mathematics thinking and use this knowledge to make instructional decisions. CGI was developed by School of Education Professors Thomas Carpenter and Elizabeth Fennema, and was funded by the National Science Foundation from 1985 through 1996. Studies have shown that compared to control classes, CGI classes place a greater emphasis on problem-solving, give students greater freedom to construct their own strategies for solving problems, have teachers who know more about their students' thinking, and have students who score higher on problem-solving.

Much of the CGI research is disseminated in Madison-area classrooms. The Madison Metropolitan School District continuously supports CGI through its own teacher development programs and through its funding of a CGI support person. About two-thirds of the K-3 teachers in Madison have attended a CGI professional development program and are now using principles of CGI in their classrooms. Other districts in Dane County that use CGI include: Belleville, Cottage Grove, Evansville, Monona Grove, Middleton-Cross Plains, Mount Horeb, Stoughton, Sun Prairie and Verona. Other districts in Wisconsin that have teachers who use CGI include: Ashland, Ashwaubenon, Brillion, Eau Claire, Franklin, Green Bay, La Crosse, Menomonie, Milwaukee, Monitowoc, Oakcreek, Oconomowoc, Oneida, Rice Lake, Sheboygan and Superior. The following Wisconsin Academies for Staff Development offer CGI professional development programs: the Cray Academy (since 1990), the Einstein Academy (since 1993), The John Muir Academy (since 1993), and the Sally Ride Academy (since 1995). Teachers from all over Wisconsin attend these academies.

66. CENTER ON ENGLISH LEARNING AND ACHIEVEMENT

Located in the School of Education, Wisconsin Center for Education Research, the project addresses improvement in English instruction, kindergarten through grade 12. The center aims to specify the features of curriculum and instruction that are essential to students' success in English, including skills with oral and written language, literature and forms of communication. The research team is examining the intersections between English and other academic subject areas, e.g., history, science and mathematics — those contexts of cross-disciplinary approaches that have been the focus of many recent proposals for reform.

- Fall 1996: approximately 200 participants
- Spring 1996: approximately 100 participants

67. WISCONSIN TEACHER ENHANCEMENT PROGRAMS IN BIOLOGY

This collaborative project between the Department of Medical Genetics, College of Agricultural and Life Sciences — Center for Biology Education, and the School of Education offers quality education in the biological sciences by providing teachers an opportunity to review and update their science education. Teachers learn about recent research developments and applications in the fields of human genetics, special education, biotechnology, cell biology, neuroscience, and plant and animal biology, as well as other topics in health and disease. The program offers more than 30 one- and two-week modules — as well as one- and two-day workshops — for elementary, middle school, junior high and high school teachers. Teachers review and update their science education through modules offered in a variety of subjects, including human genetics; molecular and cell biology; plant, animal and environmental biology; and elementary science. Courses focus on systemic change issues, special education, and alcohol and other drug abuse issues.

- Summer 1996: 34 modules, 324 teachers

68. PROJECT X

Project X, a College of Engineering program, brings together counselors and math, science and technical education teachers for a review of technical programs and career options for Wisconsin students. The program promotes knowledge of technical careers and technical/science/math education, including internships, apprenticeships, technical colleges and universities.

- Spring 1996: 250 participants

69. WISCONSIN FAST PLANTS

Funded by the National Science Foundation, the program is based at UW-Madison under the direction of plant pathologist, Professor Paul Williams. Professor Williams initially developed the plants to speed up his genetic research. Today more than 1,000 scientists in 45 countries utilize these rapid cycling brassicas in their research. The program provides instructional materials and workshops to teachers and scientists. Regional teams of master teachers and scientists spread the Fast Plants story and provide scientific expertise. The program fosters networking among teachers at all levels and encourages curriculum adaptations of Fast Plants materials.

70. TEACHERS AND STUDENTS INVESTIGATING PLANTS IN SCIENCE

A component of the Wisconsin Fast Plants Program, the Teachers and Students Investigating Plants in Science, funded by the National Aeronautics and Space Administration and a component of the Wisconsin Fast Plants project, is a collaborative effort between UW-Madison and the National Academy of Sciences of Ukraine. In October 1997, the United States and Ukraine will fly aboard a Space Shuttle mission, which will include 12 separate experiments as part of the science payload. Several plant biology experiments will run in an environmentally controlled Plant Growth Facility. During the same time as the joint Space Shuttle flight, students throughout the United States and Ukraine will be undertaking experiments to determine what is normal for biological events or stages in the life cycle of AstroPlants under the Earth's gravity. The information that students gather will help them understand a number of biological phenomena and principles. Students can compare their observations with those made by the researchers.

71. WETLAND PERSPECTIVES: WAYS OF LOOKING AT THE LANDSCAPE

This Institute for Environmental Studies program, held in conjunction with the Precollege Program for Native American Teens, is a field-based teacher education program that gives educational professionals a greater understanding of some of the aquatic habitats through exploration from a variety of perspectives.

- 1996: 6 teachers
- 1995: 5 teachers

72. MADISON EDUCATION EXTENSION PROGRAMS

The School of Education houses the Madison Education Extension Program that manages more than 130 workshops, conferences and institutes each year for teachers, child care workers, administrators, parents, students and boards of education where knowledge is applied, integrated and disseminated. Examples include A Breakfast Series for Teachers (approximately 210 teachers attend); Wisconsin Summer Conference on Effective Instruction; and Cake and Culture: An After-School Dessert Series for Teachers.

73. CENTER ON EDUCATION AND WORK

The School of Education's Center on Education and Work delivers a wide array of technical support, staff development, workshops and leadership training programs for school district staff. The CEW annually offers a rich variety of workshops, services, conferences, print materials, curriculum resource materials, videos and games, and software services to consortium members.

- Fall 1996: 10,000 participants
- Summer 1996: 10,000 participants
- Spring 1996: 7,500 participants

The CEW sponsors the National Consortium for Product Quality (NCPQ) that provides technical assistance to educators in the area of school-to-work curriculum integration. The NCPQ offers specific in-service teacher/staff development focusing on integrated curriculum design, development and evaluation.

- Fall 1996: 10 northern Wisconsin school districts

Curriculum Development and Staff Professional Development Programs

The CEW provides technical assistance to two Milwaukee and four other Wisconsin high schools. The CEW assistance includes Continuous Quality Improvement support in areas related to school-to-work, such as integrated and applied curriculum, work-based learning and career development.

- Fall 1996: 36 teachers; 6 schools

The CEW provides leadership to secondary and post-secondary schools in the development of vocational and academic learning programs that serve students who are at-risk, teen parents, individuals with limited English proficiency and students with disabilities.

- Spring 1996: 350 students; 60 teachers

74. SUPER SCIENCE CONNECTIONS WORKSHOP

The workshop, taught by a team of award-winning elementary school teachers, integrates children's literature, writing, mathematics, art projects, social studies and health instruction with hands-on science. It models ways in which the K-3 classroom can become a place where students learn and enjoy science in context. The workshop is sponsored by the Chemistry Department and the Institute for Chemical Education.

- Summer 1996: 10,000 participants

75. SUMMER ADVANCED PLACEMENT INSTITUTE

The Summer Advanced Placement Institute, in partnership with the College Board and administered by the Division of Continuing Studies, provides entry-level and experienced advanced-placement high school teachers with university seminars in American history, calculus, English, Spanish and French. This one-week credit program grew out of the university's goal to improve the instruction for Wisconsin high school teachers active in the Advanced Placement Program. The Advanced Placement Institute's primary goals are to prepare high school teachers to teach or improve their teaching of Advanced Placement (AP) courses; to familiarize teachers with AP program management, curriculum materials, testing and reading processes; and to provide the opportunity for professional networking.

- Summer 1996: 81 participants
- Summer 1995: 75 participants

76. WISCNET

Wiscnet, Wisconsin's statewide data communications network, offers an inexpensive means for private individuals, schools, libraries, and small businesses to obtain full access to the Internet by telephone. Since 1991, Wiscnet provided direct, high-speed leased-line service to the Internet for Wisconsin colleges, universities and businesses. Wiscnet is a nonprofit association created to provide access to national and international network resources and data communications for Wisconsin organizations. Wiscnet was formed in 1989 by 24 charter member institutions, including the University of Wisconsin institutions and eight private colleges and universities. Wiscnet is operated by the Division of Information Technology (DoIT) at UW-Madison, under a facilities management contract. DoIT's Network Operations Center staff monitor the network 24 hours a day and provide prompt reporting and resolution of problems.

77. INSTRUCTIONAL MATERIALS CENTER

Supported by the School of Education, the IMC has a collection of more than 55,000 items covering teacher education, instruction, and children's print and nonprint materials. Recently, the IMC has initiated meetings with the Madison Metropolitan School District (MMSD) leading to the creation of the Internet Committee Association. The IMC has also established an ongoing series of workshops, "Information for Educators," for local district personnel. IMC staff also presented "Exploring the Internet: Biology and Life Sciences Teachers Navigating the Networks," a UW System offering attended by local and statewide district personnel. IMC staff participate in monthly MMSD Internet Committee meetings.

78. UW-MADISON COMPREHENSIVE REGIONAL ASSISTANCE CENTER CONSORTIUM

Located at the Wisconsin Center for Educational Research in the School of Education, the Comprehensive Regional Assistance Center is part of a network of 15 centers funded by the U.S. Department of Education. The center provides technical assistance and training to school personnel and state educational agencies to improve teaching and learning for all students. The service region comprises Wisconsin, Iowa, Michigan, Minnesota, North Dakota and South Dakota.

79. COOPERATIVE CHILDREN'S BOOK CENTER

The CCBC is a non-circulating examination, study and research library for children's and young adult literature. The purpose of the CCBC is: to provide a collection of current, retrospective and historical books for children and young adults; to provide Wisconsin librarians, teachers, students and others informational and educational services based on the collection; and to support teaching, learning and research needs related to children's and young adult literature. The center provides various staff development workshops, including a three-session, six-hour interactive Satellite Educational Resource Consortium (SERC) television course on multicultural literature for K-8 students. The CCBC offers free subscriptions to the CCBC-Net, a new electronic forum that encourages awareness and discussion of issues essential to literature for children and young adults. The CCBC-Net provides opportunities for spontaneous as well as guided discussions of contemporary literature for children and young adults; the book arts; book publishing; and intellectual freedom issues involving minors' access to books in classrooms, school library media centers and public libraries. Each year, the CCBC publishes *CCBC Choices*, a publication that analyzes publishing trends and that frequently is quoted nationally. It is distributed to Wisconsin teachers and librarians.

80. TEACHER TO TEACHER, THE INSTITUTE FOR MULTICULTURAL SCIENCE CONNECTION

The IMSE is a long-term in-service experience for secondary science teachers from Milwaukee and Madison schools. Located on the UW-Madison campus and administered through the Center for Biology Education, the IMSE receives major funding from the National Science Foundation. Science teachers participate in an intensive four-week summer session. The IMSE supports its participants throughout the academic year with on-site classroom visits, Saturday seminars and release time.

The primary goal of IMSE is to encourage science educators to rethink major assumptions about the nature of science instruction and pedagogy that will benefit not only minority and female science students, but all students. IMSE provides educators with

Curriculum Development and Staff Professional Development Programs

resources and time to restructure curricula and the science classroom environment that enriches science education for all their science students.

- 1996: 37 participants

81. BIONET

The Center for Biology Education program offers biology teachers in-service activities throughout the state. Educators meet with biology resource people from local colleges, universities, businesses and industry. The program, initially targeting the Dane County area, has expanded statewide.

- 1996: approximately 170 teachers

82. WORKING WITH AT-RISK STUDENTS IN THE CLASSROOM

Professor Hardin Coleman, School of Education, offers a workshop that focuses on at-risk students in the classroom that integrates the literature on multicultural counseling, resiliency and teacher practice.

- 1996: 20 Madison teachers

83. ONE BIRD — TWO HABITATS

Sponsored by the Department of Wildlife Ecology, Cooperative Extension Service, the program offers teachers curriculum workshops on migratory birds. The workshops are provided to middle school science and social studies teachers. Teachers learn about the issue, practice activities and receive the curriculum, which contains 22 activities, maps, posters, a video and background information.

- Summer 1996: 13 teachers
- Spring 1996: 12 teachers

84. KICKAPOO VALLEY EDUCATION PROJECT

The Center for Biology Education program administers this environmental education initiative for the School of Natural Resources, with additional funding from Nuzum, Inc. This model project, which is constructed as a partnership among UW-Madison, eight school districts, and several community and governmental agencies, is located in the Kickapoo Valley because of its unique natural resources and environment. An area biology teacher serves as liaison to the school districts and CBE staff coordinate activities at UW-Madison.

85. UW-MADISON CIMSS/SSEC SATELLITE TECHNOLOGY EDUCATION PROGRAM

The Cooperative Institute for Meteorological Satellite Studies (CIMSS) is involved with enhancing K-12 education using state-of-the-art weather satellite data and interactive data analysis systems. The Satellite Technology Education Program (STEP) was created from a workshop response by teachers to bring the PC version of the Man-computer Interactive Data Access System (McIDAS) to their high school. Two McIDAS systems were initially placed at Watertown High School, and teaching modules were developed with teachers to provide independent, hands-on instruction in McIDAS operations. Recently teachers and students from Edgewood, Verona and Sheboygan North high schools have joined the STEP program and brought McIDAS to their science and technology centers. Access to these global weather satellite data bases using videographic, interactive computer technology must be integrated into the precollege curriculum to introduce students to exciting new ways to investigate scientific problems and to demonstrate modern scientific methods.

Teacher Research and Inquiry Programs

UW-Madison faculty and staff assist teachers who wish to take the lead in conducting research in their schools or who wish to develop new classroom applications from research findings. Below are examples of successful teacher research and inquiry programs.

86. SCHOOLS OF HOPE

Schools of Hope began in mid-1995 as a civic journalism experiment, led by the Wisconsin State Journal and WISC-TV 3, to examine what the public expects of its school system, assess how well the schools are performing and explore solutions to problems. While the news organizations continue to develop additional reports, the project has grown into a significant community-wide effort to strengthen connections between families, schools and the community. A broad coalition of community members and organizations is developing a strategy for raising the achievement levels of minority students who, overall, lag far behind white students, despite nearly a decade of efforts to reduce the racial achievement gap.

A final major package of the Schools of Hope project in 1997 is a scientific survey to examine relationships among Madison parents, students, teachers and principals. The survey project will be directed by Professor Paul Bredeson, School of Education, with coordination and support from School of Education Dean Charles Read, the Wisconsin Center for Educational Research, the Madison Metropolitan School District, and the UW-Extension Wisconsin Survey Research Laboratory. It is expected that the Schools of Hope survey will highlight current strengths and weaknesses in family-school relationships and point to areas for improvement. The findings also are intended to shed light on connections among students, their parents and peers. Survey results are expected to help formulate a plan for approaching these challenges in the community and school district.

87. MADISON AREA ACTION RESEARCH NETWORK

A collaborative project between School of Education professors Kenneth Zeichner and Robert Tabachnick and the Madison Metropolitan School District supports more than 200 area teachers who do "action research." Action research is a process in which teachers examine their own practice using research techniques appropriate to their inquiry. The practitioner identifies a question or problem to pursue, collects and analyzes data, forms tentative conclusions, and reports to colleagues and others about the process and its results. UW-Madison, in conjunction with the Madison Metropolitan School District, also holds an annual conference for action research.

88. SCIENCE EDUCATION SCHOLARS PROGRAM

The Center for Biology Education's Science Education Scholars Program is designed to improve the quality of science education by providing outstanding preservice teachers with a practical introduction to investigate scientific inquiry through research experience. In the program, three-person working groups bring together university faculty science researchers, K-12 classroom teachers and undergraduate education students in mentoring relationships. During the summer-long program cycle, each working group develops and conducts a research project and constructs usable instructional materials based on that research experience.

- 1996: 36 participants

Teacher Research and Inquiry Programs

89. WISCONSIN CENTER FOR EDUCATIONAL RESEARCH: MODELING IN MATHEMATICS AND SCIENCE

Professor Richard Lehrer, School of Education, works with 50 teachers in the Verona-area and Madison schools to reform mathematics and science instruction. The approach is based on the development and revision of models.

- Fall 1996: 870 participants
- Summer 1996: 725 participants
- Spring 1996: 3,930 participants

Community Service Programs

Community service and outreach to schools and the community are major initiatives at UW-Madison. This section highlights just a few of the many community service programs sponsored by UW-Madison in 1996.

90. EARTH PARTNERSHIP PROGRAM

Sponsored by the Arboretum, the Earth Partnership Program aims to increase awareness of the natural world and explore the idea that human beings can have a positive relationship with nature through restoration of native biological communities. The program includes teacher training, work with school children of all ages, community action projects and family workshops. Earth Partnership for Schools also provides training institutes for teachers.

- Workshop Training: 48 teachers, 8 schools
- Special Earth Partnership Tours: approximately 2,350 students
- Earth Partnership Staff Inservice: more than 200 teachers

91. STUDENT PRESENTED INTERACTIVE CHEMISTRY EXPERIENCE

The Department of Chemistry, Institute for Chemical Education, sponsors SPICE, an outreach program designed to encourage children's interest in science and chemistry. SPICE volunteers present a series of chemical demonstrations based on a common theme, which stimulates enthusiasm and excitement in the audience. SPICE volunteers portray science as an interesting, exciting and integral part of society.

- Fall 1996: 870 students
- Summer 1996: 725 students
- Spring 1996: 3,930 students

92. FAMILY AND COMMUNITY TOWN SUPPERS

UW-Madison's University Health Services and the Wisconsin Clearinghouse for Prevention Resources program aims to promote family involvement, bridge society's separation of race and class, and provide a fresh, new avenue for involvement in key community issues. Each FACTS meeting is developed around a current issue of interest to the community in which it is held. Topics include the drinking age, the death penalty and land use. FACTS events feature a panel of several people who are knowledgeable about the issue and have opposing views. Elected officials and legislators most often serve as panel members.

- 1995-1996: approximately 1,200 individuals

93. MORGRIDGE CENTER

The Morgridge Center serves as a clearinghouse for UW-Madison students to do one-on-one tutoring with Madison area K-12 students, including the Wright Middle School. The center places UW-Madison students in volunteer settings around Dane County.

- Fall 1996: approximately 1,000 placements
- Spring 1996: approximately 1,000 placements

Community Service Programs

94. UW-MARSHFIELD AG RESEARCH STATION

The College of Agricultural and Life Sciences' station introduces students to dairy farming in Wisconsin. The station also provides teachers and parents with an opportunity to learn about UW-Madison and dairy research.

95. INTERNATIONAL REACH

Sponsored by the Dean of Students and International Student and Scholar Services, International Reach brings international students, scholars and spouses into K-12 classrooms in Madison and other participating schools to enrich the study of international cultures and enhance global understanding.

- Fall 1996: 11 Madison schools, and schools in Verona, Merrimac, Cambridge, Oregon, Mount Horeb and Edgerton

96. ENGLISH 309

English 309 in the Department of English connects university students with elementary and secondary student writers. UW-Madison students read the high school students' writing and return letters of assessment, and in turn, share their own writing with elementary and high school students. The program aims to prepare teachers, as well as provide a connection between the university and K-12 schools.

97. KEMP NATURAL RESOURCES STATION

Located in Oneida County, the heart of Wisconsin's northwoods, Kemp Natural Resources Station is a UW-Madison facility dedicated to research, instruction and outreach programs in the management, conservation and preservation of natural resources. Kemp's 135 acres support some of the last remnants of old-growth forests in the Lake States, making Kemp an exceptional research and educational facility. The station provides a comprehensive program of natural resource education for youth. Multidisciplinary activities using hands-on techniques enhance participants' awareness and understanding of natural resource issues. The goal is to foster resource stewardship among today's youth and tomorrow's leaders.

- Fall 1996: 100 participants
- Spring 1996: 185 participants

98. BIOLOGICAL SYSTEMS ENGINEERING

Professor Richard Straub, Department of Agricultural Engineering, provides approximately 60 diesel engines to be used in high school technical courses. Professor Straub also provides two days of training to high school FFA teams in agricultural mechanics.

- Spring 1996: 75 students

99. UW-MADISON ARTS OUTREACH PROGRAM

The Arts Outreach Program manages three School of Music faculty ensembles for educational events and concerts. These ensembles include the Pro Arte String Quartet, Wisconsin Brass Quintet and the Wingra Woodwind Quintet.

- Fall 1996: 597 students
- Spring 1996: 867 students
- Fall 1995: 257 students

100. SCHOOL PSYCHOLOGY FIELD PROGRAM

Graduate students in School Psychology in the Department of Educational Psychology are placed in field sites in schools in Madison and the surrounding area. Students spend two days per week in an elementary school for one semester and two days per week in a high school for one semester. School psychologists at field sites and university faculty collaborate to provide supervision.

- Fall 1996: 5 schools
- Fall 1995: 6 schools

Partnership Program Names and Contacts

All area codes are 608, unless noted.

Academic Award System for the Madison Memorial High School: School of Education, 263-4600

Academic Skills Development Workshop: School of Education, 263-4174

Agriculture and Natural Resources “Working Together”: College of Agricultural and Life Sciences, (715) 387-2523

Arboretum: Arboretum, 263-7888

Arboretum Earth Partnership Teacher Training Workshops: Arboretum, 262-2746

Badger Boys’ Soccer Camps: Intercollegiate Athletics, 265-2971

Badger Girls State: Division of Continuing Studies, 262-3152

Badger Football Camp: Intercollegiate Athletics, 262-1861

Badger Junior Tennis Camp: Intercollegiate Athletics, 263-6304

Badger Swimming Camp: Intercollegiate Athletics, 265-3336

Barry Davis’ Wisconsin Wrestling Camps: Intercollegiate Athletics, 262-3586

Biological Systems Engineering:

Bionet: Center for Biology Education, 263-0478

Bridging the Gap: Division of Continuing Studies, 262-5823

Center for Health Science Summer Enrichment Program: Center for Health Science, 263-1045

Center on Education and Work: School of Education, 263-3696

Center on English Learning and Achievement: School of Education, 263-0563

Chemistry Camps: Institute for Chemical Education, 262-3033

Chorfest: School of Music, 263-1891

Cognitively Guided Instruction: School of Education: 263-3605

College for Kids: School of Education, 262-4650

Cooperative Children’s Book Center: School of Education, 263-3721

Creating Our Own Images Video Training Program: School of Education, 262-4084

Dance for Teens: Division of Continuing Studies, 263-8927

Dane County Area Youth Apprenticeship Program: CESA 2, 232-2860

Earth Partnership Program: Arboretum, 262-2746

Elvehjem Museum of Art: College of Letters and Science, 263-2246

Engineering Saturday for Tomorrow’s Engineers at Madison: College of Engineering, 262-2473

Engineering Summer Program: College of Engineering, 262-7764

Engineering Tomorrow’s Careers Summer Camp: College of Engineering, 262-3387

English 309:

Environmental Studies Workshop for Native American Students: Institute for Environmental Studies, 263-1796

Expanding Your Horizons: School of Education, 262-5315

Family and Community Town Suppers: University Health Services, 262-9007

Fast Plant Biology at Thoreau Elementary School: College of Agricultural and Life Sciences, 262-2330

4-H Agri-Science World: College of Agricultural and Life Sciences, 265-2051

French for Young People — Ages 7-10: Department of Liberal Studies, 262-4873

French for Young People — Ages 11-14: Department of Liberal Studies, 262-4873

Geology for Kids: College of Letters and Sciences, 262-1412

Geology Museum: College of Letters and Science, 262-1412

Partnership Program Names and Contacts

High School Students — University Special Students: Division of Continuing Studies, 262-5823

How to Study in Middle School and High School: School of Education, 262-2452

Independent Science Research Project/Bridging the Gap: Madison Metropolitan School District, 221-6729

Instructional Materials Center: General Library, 263-4755

International Reach: International Studies and Scholar Services, 262-2044

Jim Fisher’s Diving Training: Intercollegiate Athletics, 262-4958

John Muir Academy: College of Engineering, 262-2473

Junior Science, Engineering and Humanities Symposium: Office of Undergraduate Admissions, 262-2258

Kemp Natural Resources Station: College of Agricultural and Life Sciences, (715) 356-9070

Kickapoo Valley Education Project: Center for Biology Education, 263-0478

Madison Area Action Research Network: School of Education, 263-4651

Madison Education Extension Programs: School of Education, 263-5140

Madison Middle School 2000: Division of Information Technology, 264-3648

Mathematics in Context: School of Education, 263-4285

Math Meet: Department of Mathematics, 263-3054

Middle School College Access Program: School of Education, 263-4174

Minority Precollege Computer Camp: Department of Computer Sciences, 262-0620

Morgridge Center: 263-4009

NASA Sharp Plus Program: Quality Education for Minorities Network, (202) 659-1818

Nursing Precollege Program for Minority Middle School Students: School of Nursing, 262-5606

One Bird — Two Habitats: College of Agricultural and Life Sciences, 265-8264

Outreach-Art: School of Education, 263-6322

Postsecondary Enrollment Options Program: Division of Continuing Studies, 262-2115

Project Seed: College of Agricultural and Life Sciences, 263-0478

Project X: College of Engineering, 262-0684

Research Apprenticeship Program — School of Nursing: School of Nursing, 262-5606

Saturday Enrichment Program: School of Education, 262-4476

School Psychology Field Program: School of Education, 262-3432

Schools of Hope: School of Education, 262-6137

Science Education Scholars Program: Center for Biology Education, 263-0478

Spanish for Little Ones: Beginning — Ages 4-6: College of Letters and Sciences, 262-3428

Spanish for Young People: Beginning — Ages 7-11: College of Letters and Sciences, 262-3428

Student Presented Interactive Chemistry Experience:

Summer Advanced Placement Institute: Division of Continuing Studies, 262-5823

Summer Music Clinics: College of Letters and Science, 263-2242

Summer Research Apprentice Program for Minority High School Students — Medicine: School of Medicine, 263-3713

Summer Research Apprenticeship Program — School of Pharmacy: School of Pharmacy, 262-7434

Summer Research Apprenticeship Program — School of Veterinary Medicine: School of Veterinary Medicine, 263-1579

Partnership Program Names and Contacts

Summer Science Institute: Center for Biology Education, 262-2125
Summer Workshop in Earth and Atmospheric Sciences: Space Science and Engineering Center, 263-7435
Super Science Connections Workshop: College of Letters and Science, 262-2940
Teacher Enhancement Programs in Biology: College of Agricultural and Life Sciences, 262-1006
Teachers and Students Investigating Plants in Science: College of Agricultural and Life Sciences, 263-2634
Teacher to Teacher, the Institute for Multicultural Science Connection: Center for Biology Education, 263-0478
Team Physician Role for High School Athletics: UW Children's Hospital, 262-6343
Technology and the Arts: School of Education, 262-4476
Upward Bound: School of Education, 263-1564
UW Badger Boys' Basketball Camps: Intercollegiate Athletics, 262-4597
UW-Madison Arts Outreach Program: School of Music, 263-4086
UW-Madison CIMSS/SSEC Satellite Technology Education Program: Space Science and Engineering Center, 263-4206
UW-Madison CIMSS/SSEC Workshop in Earth and Atmospheric Sciences: Space Science and Engineering Center, 263-7435
UW-Madison Comprehensive Regional Assistance Center Consortium: School of Education, 263-4220
UW-Madison Preservice Teacher Education: School of Education, 265-2745
UW-Marshfield Ag Research Station: College of Agricultural and Life Sciences, (715) 387-2523
UW Space Place: Space Science and Engineering Center, 262-4779
Viva Brasil — Building Beautiful Bridges Between Wisconsin and Brazil: Latin American and Iberian Studies Program, 262-2811
Volleyball Camps: Intercollegiate Athletics, 262-4488
Wetland Perspectives: Ways of Looking at the Landscape:
WISCNET: Division of Information Technology, 264-3648
Wisconsin Camp of Champions (Track): Intercollegiate Athletics, 262-4397
Wisconsin Center for Academically Talented Youth Senior Program: Division of Continuing Studies, 262-2115
Wisconsin Center for Educational Research: Modeling in Mathematics and Science:
Wisconsin Fast Plants: College of Agricultural and Life Sciences, 1-800-462-7417
Wisconsin Food System Partnership and Science Education and Employment Development Program: College of Agricultural and Life Sciences, 262-1271
Wisconsin 4-H and Youth Conference: State 4-H Office, 262-2491
Wisconsin Girls' Basketball Camps: Intercollegiate Athletics, 263-4225
Wisconsin Girls' Soccer Camps: Intercollegiate Athletics, 265-2974
Wisconsin Girls' Softball Camps: Intercollegiate Athletics, 265-6152
Wisconsin Teacher Enhancement Programs in Biology: Center for Biology Education, 262-1006
Working With At-Risk Students in the Classroom: School of Education, 262-2161

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