CMSCE…the excitement of learning
Executive Summary

Yakov Epstein, Director of CMSCE, has served in this role since 1998. The following letter from Dr. Epstein outlines his vision for the future directions of the Center.

This past year, the economically challenging 2008-2009 year, has been a year of re-examination and restructuring. Despite the extremely difficult economic climate we continued to move forward keeping in mind our commitment to continue to fulfill our core mission – to contribute to the improvement of mathematics, science, and computer education programs in New Jersey schools and in schools throughout the nation. This report describes the challenges we faced and the actions we have taken to meet these challenges and move forward. I believe that we have emerged from the difficulties we faced as a stronger Center better able to continue our activities and launch several important new endeavors.

For the past 15 years the New Jersey Statewide Systemic Initiative (NJSSI) has been a major force in improving mathematics, science, and technology education in the State of New Jersey. For the first 10 years of its existence, NJSSI received NSF funding totaling $16 million dollars as well as generous matching funding from the State of New Jersey. For the first five years NJSSI developed an infrastructure that was responsible for launching initiatives that had significant impact on New Jersey STEM (Science, technology, Engineering, and Mathematics) education. NSF was very pleased with the accomplishments of NJSSI and funded it for a second five year period with the understanding that when that funding ended, the initiative was to find a way to sustain its activities without NSF funding. Because the State of new Jersey was so pleased with the accomplishments of NJSSI, it funded the initiative for 5 consecutive years at a rate of $1.2 million from the NJ Treasury Department. But the fiscal crisis that NJ encountered during the 2007-2008 year led to a decision to curtail funding for this project. Throughout the spring of 2008 we mounted an informational and lobbying campaign to try to get this funding restored. Unfortunately, the governor maintained his priorities which did not include funding NJSSI. The decision to cease NJSSI funding required that we terminate many staff members and reconfigure key Center activities. In addition, we encountered substantial financial expenditures connected with the wind-down of this project.

In addition to the conclusion of NJSSI activities, we also faced challenges to conducting some mathematics Professional Development program which were directed by Professor Joseph G. Rosenstein. For more than twenty years Prof. Rosenstein had conducted well-attended summer and school year programs that received extremely favorable reviews. Some of these initiatives were enhanced and expanded with the aid of federal, state, and corporate funding. Staff were hired to oversee and run these initiatives. Our Center has always been committed to finding ways to continue important externally funded initiatives once external funding for them ends. Professor Rosenstein continued to offer many of his programs that had once received external funding using a self-support model. When the economy was good this model worked. However, in the past several years the difficult economic climate led to a decline in enrollment to the point where programs could no longer be offered and staff associated with these programs could no longer be supported. As a consequence, staff associated with these programs could no longer be retained at our Center. Fortunately, we were able to help several of these staff members find alternate positions at the University. Nonetheless, we faced additional substantial costs associated with ending these programs.

Because we valued many of Professor Rosenstein’s projects and did not want to see them abandoned because of CMSCE’s inability to sustain them financially, we turned to other units with whom we work closely for help in sponsoring these projects. We are pleased that we were able to work out an arrangement where the SAS Department of Mathematics and the DIMACS Center have agreed to sponsor several of Professor Rosenstein’s important initiatives. We hope that this arrangement will permit the continuity of these important programs.

Our NSF-funded MetroMath Center, a partnership of 3 universities - Rutgers (New Brunswick and Newark), the City University of New York, and the University of Pennsylvania – and school district partners - the cities of Philadelphia, Plainfield, Newark, and New York, completed its fifth and final year of programming. We applied successfully for supplemental funding for the MetroMath Center to continue our activities for one additional year. We also continued and expanded several major research programs - interactions between urban families and communities, and the mathematics addressed in urban classrooms, the role of affect, influenced by urban environments and contexts, in relation to initiating and maintaining classroom environments where conceptually challenging mathematics is taught and learned, and “micro” and “macro” outcomes of policies aimed toward recruitment, education, and retention of qualified urban mathematics teachers, particularly with regard to conceptually challenging mathematics in the classroom. We have disseminated
research findings at national and international meetings. Our research on affect and engagement has led the development of instruments to explore the measurement of affect and engagement in urban classrooms. Based on this work we plan to submit a proposal together with the Stanford Research Institute (SRI) to further develop and validate the questionnaire instrument to measure engagement when learning mathematics. We have also developed professional development activities to help teachers learn about the role of affect and the ways in which it can be harnessed to enhance student engagement in learning mathematics at the middle school level.

Several teachers in MetroMath partner districts have become doctoral fellows and have developed doctoral thesis proposals which carry out aspects of the MetroMath research agenda.

A major activity that we conducted last year involved developing and submitting a proposal to NSF to create a Mathematics and Science Partnership (MSP). As of late spring we received feedback that our proposal reviewed strongly and we are very encouraged about the possibility of it being funded beginning in September 2009.

We also applied successfully for a third year of funding for the ESTEEMS project, a state Department of Education funded MSP program. We look forward to continuing the important work we have done on this project for the past two years.

A final important project that we developed this past year was the creation of a Web portal that will allow visitors to the records website to locate information about pre-K-16 outreach activities. In this annual report we described in details the findings that we have gathered about these initiatives. We have hired DigitalWave, a Web development company, to create the Web portal that will be populated with the information we have collected.

We look forward to an exciting year of important activities for the center.

Sincerely,
Yakov M. Epstein Ph.D.
Center Director
“Mathematics, science, and technology are keys that will unlock the doors of understanding and opportunity in the next millennium.”

About the Center

The Center fosters collaboration among educators and business leaders, practitioners and researchers to enhance the learning and teaching of mathematics and science, and to demonstrate how technology can contribute to these goals. Rutgers University, other colleges and universities, industry, and local school systems join together as partners in a mutually beneficial relationship. Each partner makes an important contribution and each reaps significant benefits from the collaborative relationship. School systems support their teachers' efforts throughout the academic year. Companies encourage their scientists to contribute technical expertise to Center-sponsored activities. The University contributes faculty expertise to the Center. In return, school districts gain well-trained highly motivated practitioners and become models to other districts. Corporations and their participating scientists gain visibility, recognition, and good will for their contributions to their communities. The University, in turn, fulfills its public outreach and research mission. Over the past twenty-four years, teachers and students from every legislative district in New Jersey and from two-thirds of all NJ school districts have benefited from participation in Center-sponsored projects. The leadership cadre spawned by these programs is improving the teaching and learning of mathematics, science, and technology statewide and even nationally.

The Center culls ideas from the best research, thinking and practice to forge new directions in mathematics and science education. It infuses these practices with technology and evaluates their impact in our partner schools' classrooms. Center institutes and programs use strong mathematical and scientific content and offer powerful learning strategies. Mathematics programs present strategies and problem solving approaches to improve student mathematics learning. Science programs stress hands-on activities and the importance of developing processes of scientific reasoning. Technology programs are held at the Center's Digital Teaching and Learning Lab. The lab, which houses state-of-the-art technology equipment, including room-size and desktop videoconferencing capability, gives teachers the tools to bring their students into the 21st century. All Center programs incorporate an inquiry-based approach to learning, emphasizing problem solving and guiding students toward higher levels of thinking -- the skills our business partners are demanding.

CMSCE acts as a broker-facilitator in the service of furthering its goal of improving mathematics and science education. The center is organized as an umbrella unit that encompasses a group of projects who each share this goal. For example, the CMSCE umbrella includes within it such projects as the NJ Statewide Systemic Initiative (NJSSI), The MetroMath Center for Learning and Teaching, the Center for Family Involvement in the Schools, the ESTEEMS project, and many other projects. The pages that follow contain diagrams of the overall umbrella structure of the CMSCE as well as a more detailed diagram of one of the individual projects that fall under this umbrella. Each of these projects has its own leadership structure and functions independently. The CMSCE Center Director and Associate Director meet periodically with the leaders of each of the CMSCE projects to stay current with the progress of these projects and identify areas for future growth and expansion. When we identify such needs, we initiate a process of forming a group of interested individuals to develop a program and seek funding to meet these needs.

The two examples which follow illustrate how CMSCE acts as a broker facilitator to create projects. When CMSCE was first launched, it held discussions with the New Brunswick Schools Superintendent to identify needs of the New Brunswick School System. One need that was identified was for enhanced science teaching and learning. In response, CMSCE launched a program called “Science Residents.” This program provided elementary school teachers in New Brunswick with Rutgers graduate students who were involved in some field of science and who showed an interest in education. The graduate students led classes and provided examples and exercises and worked individually with students. This program continued with funding supplied jointly by CMSCE and by New Brunswick schools. Years later, NSF created an RFP for a GK-12 program which had goals similar to our science residents program. In our role as broker facilitators, we approached the Rutgers Vice President for Academic Affairs and requested that he convene a group of University faculty from STEM disciplines to plan collaboratively for the submission of a GK-12 proposal. Under the leadership of CMSCE, that group met, developed a proposal which resulted in the funding of a track I GK-12 grant. The resulting GK-12 program then became one of the
projects of CMSCE – a unit involving STEM faculty, graduate and undergraduate students working with teachers and middle school students to enhance the teaching and learning of stem disciplines.

A second example of how CMSCE functioned as a broker facilitator involved the NSF CLT program. Again, working through the office of the Vice President for Academic Affairs, CMSCE convened a working group to prepare a proposal to establish a Center for Learning and Teaching. The result of this effort was the creation of the MetroMath Center involving collaboration between Rutgers, the City University of New York, and the University of Pennsylvania and associated school districts in New York City, Philadelphia, Newark, and Plainfield.

**CMSCE is an “Umbrella” Organization That Acts as a Broker-Facilitator for New Programs. Many of These New Programs then Become Independently Functioning Projects of CMSCE**
The NSF MetroMath Center for Learning and Teaching is an Independent Project of CMSCE
New Jersey Statewide Systemic Initiative (NJ SSI)

The New Jersey Statewide Systemic Initiative (NJ SSI), directed by Dr. Deborah Cook, is a unique partnership of schools, districts, colleges, universities, science centers, museums, businesses, industries, and associations. NJ SSI’s overall goal is to improve performance and participation of all students in science and mathematics throughout New Jersey. The organization pursues this goal by providing the leadership and infrastructure necessary to effect systemic change. Since 1993, NJ SSI and its partners have impacted over 49,850 teachers and administrators and over 2,000 schools, approximately 85 percent of all schools in New Jersey. In addition, NJ SSI has assisted nearly 2000 schools in implementing new or revised standards-based curricula in mathematics, science and technology.

NJ SSI’s vision is of a statewide school system in which all 600 New Jersey school districts:

- Adopt ambitious goals and challenging academic standards for all students;
- Develop a vision of schools that will enable students to reach higher standards;
- Create coherent local policies in support of the goals, standards, and vision;
- Adopt and align curricula that reflect state and local standards and emphasize rigorous content, higher-order thinking skills, problem solving, and integration and application of knowledge;
- Use performance measures to assess students’ understanding of essential content, their ability to apply it to solve problems, and their capacity to integrate knowledge across disciplines;
- Motivate, prepare, and support educators’ efforts to make necessary changes in curriculum, pedagogy, assessment, and school organization; and
- Build public awareness and support for reform.

History

The National Science Foundation (NSF) launched the Statewide Systemic Initiative program in the early 1990s, awarding 26 states and Puerto Rico five-year grants. After an intense competition, eight programs were later awarded “Phase Two” grants for an additional five years. New Jersey received a $10 million Phase I grant in 1993 and a $6 million Phase II grant in 1998. NSF funding ended on August 31, 2004. During Phase I (1993-98), the NJ SSI partnership made tremendous strides toward establishing a unitary, student-centered, standards-based system for mathematics and science education. This period saw such essential statewide policy developments as:

- Adoption of Core Curriculum Content Standards, including standards in mathematics and science;
- Adoption of a strategic plan for systemic reform;
- Adoption of a long-range plan for educational technology;
- Adoption of policy mandating statewide, standards-based assessments in grades 4, 8, and 11;
- Adoption and dissemination of the Mathematics Framework;
- Establishment of 21 Educational Technology Training Centers, to train educators how to use technology to enhance standards implementation and student achievement;
- Release of assessment data disaggregated by gender, race and ethnicity;
- Adoption and dissemination of the Science Framework; and
- Adoption of policy requiring every teacher to complete 100 hours of continuing education every five years.
In Phase II, beginning in 1998-99, NJ SSI restructured, refocused, and decentralized its operations to increase its effectiveness. Today, every organizational component of the state education system shares NJ SSI’s vision and is pursuing NJ SSI’s goals. NJ SSI has been a critical element in leveraging support for capacity building sufficient to reach every New Jersey classroom with standards-based curriculum, instruction, and assessment. A substantial number of teachers, schools, and districts are already in partnership with NJ SSI, and student achievement measures have begun to reflect its accomplishments.

NJ SSI strives to promote and preserve equity, access and achievement in New Jersey education. The goal is a system where all students—regardless of gender, racial, ethnic or socioeconomic background, disability, or limited proficiency in English—can achieve state standards and perform at a high level in mathematics and science.

**Funding**

Supported by the State of New Jersey, and in collaboration with the Center for Mathematics, Science and Computer Education (CMSCE), NJ SSI has built the educational infrastructure necessary to achieve statewide education reform.

The majority of NJ SSI funding flows directly to New Jersey School Districts, through financial support of the five Regional Centers, annual standards implementation grants, and professional development and technical training programs.

Direct funding from the State of New Jersey has institutionalized and enhanced NJ SSI’s statewide capacity to deliver programs and services to school districts and teachers, which translate into increased student achievement.

NJ SSI continues to serve New Jersey school districts by:

- Building and maintaining the educational infrastructure and partnerships among school districts and universities.
- Providing strategic and technical assistance to school districts, with regard to the effective implementation of mathematics and science Core Curriculum Content Standards.
- Offering professional development programs for New Jersey teachers and administrators, with the goal of improving student learning and increasing the use of technology in the classroom.
- Assisting teachers in meeting Highly Qualified Teacher (HQT) status under the No Child Left Behind federal legislation.

**Regional Centers**

NJ SSI serves as the hub for its myriad educational partners across the state, particularly its Regional Centers. Five Regional Centers, each responsible for between three and seven counties, form NJ SSI’s primary delivery infrastructure:

- The College Of New Jersey, serving Mercer, Burlington, Hunterdon, and Somerset Counties;
- County College Of Morris, serving Essex, Morris, Passaic, Sussex, and Warren Counties;
- Montclair State University, serving Bergen, Essex, Passaic, and Hudson Counties;
- Rowan University, serving Atlantic, Camden, Cape May, Cumberland, Gloucester, Ocean, and Salem Counties; and
- Rutgers University, serving Middlesex, Monmouth, and Union Counties.

NJ SSI’s Advisory board representing school districts, professional development providers, business and industry, and members of NJ SSI central staff guide Regional Centers. Regional Centers have primary responsibility for ensuring that all districts in their respective regions progress along five stages of reform implementation. In carrying out this responsibility, Regional Centers provide professional development programs and technical assistance to school districts in their counties to enable them to understand and implement components of each stage and to implement and align standards-based curriculum. Since Regional Centers are unable to deliver all needed services
on their own, they collaborate with other Regional Centers, and other providers to broker professional development and other services in support of NJ SSI goals.

**ESTEEMS Project**

NJ SSI was awarded $875,000 for the third year of a three-year grant, from the New Jersey Department of Education to implement a mathematics and science partnership program for central and southern New Jersey. The overall goal of ESTEEMS (Establishing Excellence in Education for Mathematics and Science) is to provide standards-based, content-related professional development in mathematics and science for regular and special education middle school classroom teachers. The project worked with 15 school districts, 3 non-public schools, and Middlesex County College. The school districts and private schools are Asbury Park, Bound Brook, Carteret, Edison, Franklin Township, Long Branch, Metuchen, New Brunswick, Penns Grove-Carney’s Point, Piscataway, Plainfield, Roselle, Salem City, South Bound Brooke, Woodbridge, St. Helena’s School, Our Lady of Fatima, and Sacred Heart School.

The project provided a two-week content institute in Data Analysis, Probability, Statistics and Discrete Mathematics for 32 teachers, and a two-week institute in chemistry for 30 teachers during the summer of 2007 as part of Year 3. Strategies to adapt content knowledge in mathematics and science to special education students were also provided.

In 2007, NJ SSI applied for and received additional funding for a second phase of ESTEEMS. Phase II focuses on teachers in elementary grades 3-5, and is funded from July 1, 2007-June 30, 2010. The NJ Department of Education approved a first year grant award of $675,000. The integrated mathematics and science program targeted physics (electricity, magnetism and sound) and mathematics in the first year, chemistry and mathematics in year two, and earth science and mathematics in year three.

In the first year, 46 teachers participated in two summer academies, one hosted at Rutgers and one at Middlesex County College. The project worked with 16 public school districts and 5 non-public schools. These districts included: Carteret, East Brunswick, Edison, Franklin, Hamilton, Highland Park, Iselin, Long Branch, Middlesex, New Brunswick, North Brunswick, Old Bridge, Piscataway, Plainfield, Sayreville, South Amboy, South Bound Brook, South Plainfield, and Woodbridge. These teachers also participated in three follow-up days on campus and received four days of coaching/mentoring on-site in their districts.

In 2008, NJ SSI applied for and received funding in an amount of $510,000 for the second year of ESTEEMS II. For Year 2, 23 teachers in grades 3-5 were recruited for a two-week Summer Academy in chemistry with related mathematics hosted at Rutgers. The teachers were recruited from Carteret, Franklin Township (Somerset), Hamilton Township (Mercer), Highland Park, Long Branch, New Brunswick, Old Bridge, Piscataway, Woodbridge, and Sacred Heart School (South Amboy). These teachers received three follow-up days of professional development on campus and four days of coaching and mentoring on-site in their districts. Teachers also completed a capstone project that incorporated content and pedagogical strategies from the Summer Academy.

In the third year, NJ SSI received a grant award of $525,000 for the final year of ESTEEMS II. For Year 3, 43 teachers in grades 3-5 were recruited for a two-week Summer Academy in earth science with related mathematics hosted at Rutgers. The teachers were recruited from Carteret, Franklin Township (Somerset), Hamilton Township, Highland Park, Long Branch, Old Bridge, Piscataway, Plainfield, Sayreville, South Bound Brook, The Center School, Saint Francis Cathedral School, Saint John Vainney School, Saint Mary and Saint Peter Catholic Academy, and Saints Philip and James School. These teachers will complete three follow-up days of professional development on campus, four-six days of coaching and mentoring on-site in their districts, and a Culminating Showcase in June 2010. Teachers will also complete a Project-Based Learning Scenario/Capstone project that incorporates content and pedagogical strategies from the Summer Academy.

**MetroMath Center**

MetroMath: The Center for Mathematics in America's Cities is a collaborative effort of three universities, Rutgers - The State University of New Jersey (lead institution), The City University of New York (CUNY) / Graduate Center, and the University of Pennsylvania, with other institutions, and school districts in New York City, Philadelphia, Newark, and Plainfield (NJ). This Center was funded by the National Science Foundation, beginning on January 1,
2004 and continuing through June 30, 2010. The total award over 5.5 years is $10,500,000. The PI of the MetroMath project is Dr. Gerald Goldin.

The primary aim of the MetroMath Center is to obtain knowledge that, put into practice, enables students in urban schools in their learning of conceptually challenging mathematics. We have chosen to address this aim at the level of classrooms situated in urban environments. Thus, our approach is not to examine schools, school districts, or communities as units. Rather we study certain key factors emerging in research at the classroom level, where students and teachers interact in ways we see as profoundly affected by the urban contexts in which they are situated. This offers the potential for research with substantial future impact.

**Management**

The Center has a Management Team that includes faculty and staff from our partner universities. The management team includes

- **Rutgers University:**
  - PI Gerald Goldin
  - Co-PI Roberta Schorr, Rutgers-Newark
  - Alice Alston
  - Norman Glickman
  - Yakov Epstein
  - Lynda Ginsburg
  - Karen Murray

- **The University of Pennsylvania**
  - Co-PI Janine Remillard
  - Christine Massey

- **The CUNY Graduate Center**
  - Co-PI Laurel Cooley
  - Eileen Donoghue

The MetroMath Center focuses intensely on key issues. The research goals address critical questions in urban mathematics education, whose answers will have important consequences influencing policy and practice. Moreover, the Center is developing a community of leaders with the expertise to develop and implement changes based on particulars of the urban context, and informed by research. All Center activities, including the MU seminar and teacher leader programs, are aligned with this framework.

- We identified three key issues in urban mathematics education, aligned with our focus, around which we have organized our research agenda:
  - Interactions between urban families and communities, and the mathematics addressed in urban classrooms;
  - The role of affect, influenced by urban environments and contexts, in relation to initiating and maintaining classroom environments where conceptually challenging mathematics is taught and learned;
  - “Micro” and “macro” outcomes of policies aimed toward recruitment, education, and retention of qualified urban mathematics teachers, particularly with regard to conceptually challenging mathematics in the classroom.

**The MU Seminar**

The MU Seminar (Mathematics/Urban and Multi-University) is a four-semester, interdisciplinary seminar carrying graduate credit (3 hrs. per semester), spanning the disciplines of mathematics and mathematics education, psychology and cognitive science, urban education and urban studies. It addresses carefully selected topics embodying the research and leadership missions of the MetroMath Center.
The MU seminar has been conducted for four years, with cohorts at Rutgers University, the City University of New York Graduate Center (CUNY), and the University of Pennsylvania.

- Each year, the MU Seminar has been updated. Each Seminar:
  - incorporates the knowledge base to address our focus and our key issues in depth, together with other, carefully-selected essential topics
  - is designed with content that is sufficiently independent of the others, to allow students the flexibility to enroll in any of the three semesters in any order, prior to a capstone semester
  - has been scheduled with simultaneous sections based on the same content at each of three university sites, allowing for cross-linkages through video-conferencing

**MetroMath Fellow Program**

We awarded MetroMath fellowships to forty-seven doctoral students, twenty eight at Rutgers; nine at CUNY; and ten at the University of Pennsylvania. These are one-year awards that can be renewed for a second year. The fields of the doctoral students reflect the multi-disciplinary nature of the Center. In addition to participating in the four-semester MU Seminar, the fellows will be involved in the Center’s research programs.

**Teacher Fellow Program**

The Center is committed to developing a robust pipeline of teachers qualified to participate in the MU seminar. Towards this end, the Center runs Teacher Fellow programs in all three universities. We have replaced our earlier MILE (Mathematics Institute for Leadership in Education) institutes for teachers, that had been primarily based on past work, with smaller-scale, individually-tailored programs for selected teacher leaders, aligned with our focus, emphasizing conceptually challenging mathematics, planned in partnership with each of our four urban partner school districts, and preparing the teachers to participate in the MU seminar.

**New Jersey Mathematics Coalition**

The New Jersey Mathematics Coalition, directed by Dr. Joseph Rosenstein and housed at CMSCE since 1991, is an independent, sustained, multi-faceted state-wide collaborative effort, involving all sectors of the community – education, public policy, business and industry, and the public – working together to improve mathematics education in the state and to increase public awareness of the important of mathematics to the future of New Jersey’s children. For further information, see http://dimacs.rutgers.edu/nj_math_coalition.

The New Jersey Mathematics Coalition published the New Jersey Mathematics Curriculum Framework in December 1996, a 688-page guide to both teachers and districts on implementing the standards. The Framework has been disseminated, in both print and electronic formats, within New Jersey and also nationwide. Within the state, it has served as a model for frameworks in other content areas, and nationally it has served as a model mathematics framework.

The Coalition also developed the report Are We Measuring Up? A Baseline Report on Trends in New Jersey Mathematics Education, with funding from The Fund for New Jersey, sponsored the FANS Project (Families Achieving the New Standards) that conducted over 1400 workshops for parents on the mathematics and science standards in the years subsequent to their adoption, and developed the ESPA Workshops (now ASK 4 Workshops) for 3rd and 4th grade teachers of mathematics.

**Center for Family Involvement in Schools**

Housed at CMSCE since July 2000, the Center for Family Involvement in Schools currently offers three programs, Family Math, Rutgers Family Science, and Middle School Family Math.
**Family Math.** The three-day FAMILY MATH training workshop trains teachers to conduct six evening sessions that engage parents and children in fun, hands-on math activities, develop problem-solving skills, and build students' competence and confidence in doing mathematics. This program is offered four times a year.

**Family Math II** training provides 6 (or 12 If you attend both days) hours of professional development. The Center for Family Involvement in Schools (NJDOE Provider #1660) and the Rutgers Center for Mathematics, Science, and Computer Education (NJDOE Provider #3), which sponsor the training workshops, are registered as professional development providers with the New Jersey Department of Education. This workshop offers an opportunity to those presenters who wish to update their sessions with new and exciting activities or for those who want to participate in a follow-up training. Each day of training will include 3-5 new activities from the Family Math II book. Participants may register for one or two days of training;

**Rutgers Family Science.** The four-day FAMILY SCIENCE training workshop trains teachers to conduct six evening sessions that engage parents and children in fun, hands-on science activities, develop problem-solving skills, and build students' competence and confidence in doing science. This program is offered four times a year.

**Middle School Family Math.** Like the FAMILY MATH training workshop, the three-day MIDDLE SCHOOL FAMILY MATH training workshop trains middle school teachers to conduct six evening sessions that engage parents and children in fun, hands-on math activities, develop problem-solving skills, and build students' competence and confidence in doing mathematics.

**Math and Science Initiatives: Building a Learning Community in Science & Mathematics through Educational Partnerships – Track II**

(http://mslc.rutgers.edu/nsfgk12)

Building a Learning Community in Science and Mathematics through Educational Partnerships – Track II, directed by Dr. Kathleen Scott, continued its successful model of developing learning communities in science, technology, engineering and mathematics (STEM) by bringing together local school districts and Rutgers, The State University of New Jersey, in educational partnerships. Rutgers graduate students (referred to as Fellows) studying in the fields of science, engineering or mathematics (STEM) brought the excitement of contemporary science and mathematics research into the middle school classrooms of four local school districts, including Edison, Metuchen, Old Bridge, South Brunswick. In doing so, they became familiar with the issues, culture and challenges of K-12 education. In turn, middle school science, mathematics and technology programs became enriched through these yearlong collaborations.

Seven teams, each made up of one to four middle school teachers and a graduate fellow, participated in the 2008 Building a Learning Community program. Work on the 2008 program began with a two-week summer Institute that focused on team development, planning for the academic year, and training to prepare the Fellows for their experience in middle school. During the academic year, teams worked together in the schools, Fellows met weekly with program staff, and all participants gathered for planning and professional development events, including four Saturday follow up meetings held at the Math and Science Learning Center (MSLC), the University location that hosted the project.

The following table further describes the 2008 program:

<table>
<thead>
<tr>
<th>John Adams Middle School, Edison, NJ (Middlesex County)</th>
<th>Graduate Student Fellow studying in the field of Ecology and Evolution</th>
<th>8th grade mathematics teacher &amp; 6th grade general science teacher</th>
</tr>
</thead>
<tbody>
<tr>
<td>Woodrow Wilson Middle School, Edison, NJ (Middlesex County)</td>
<td>Graduate Student Fellow studying in the field of Ecology and Evolution</td>
<td>7th grade mathematics teacher &amp; 7th grade life science teacher</td>
</tr>
<tr>
<td>Woodrow Wilson Middle</td>
<td>Graduate Student Fellow studying</td>
<td>8th grade mathematics teacher</td>
</tr>
</tbody>
</table>

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### Middle School Science Teachers and Graduate Student Fellows

<table>
<thead>
<tr>
<th>School, Location</th>
<th>Field of Study</th>
<th>Grade Levels</th>
</tr>
</thead>
<tbody>
<tr>
<td>School, Edison, NJ (Middlesex County)</td>
<td>in the field of Endocrinology &amp; Animal Bioscience</td>
<td>6th grade physical science teacher</td>
</tr>
<tr>
<td>Edgar Middle School, Metuchen, NJ (Middlesex County)</td>
<td>Graduate Student Fellow studying in the field of Ecology and Evolution</td>
<td>8th grade physical science teacher, 6th &amp; 8th grade science teacher</td>
</tr>
<tr>
<td>Jonas Salk Middle School, Old Bridge, NJ (Middlesex County)</td>
<td>Graduate Student Fellow studying in the field of Biomedical Engineering</td>
<td>8th grade science teacher</td>
</tr>
<tr>
<td>Crossroads Middle School South, Monmouth Junction, NJ (Middlesex County)</td>
<td>Graduate Student Fellow studying in the joint program in Molecular Biosciences at Rutgers University/UMDNJ</td>
<td>7th &amp; 8th grade science teacher; 6th, 7th, &amp; 8th grade technology teacher</td>
</tr>
<tr>
<td>Crossroads Middle School South, Monmouth Junction, NJ (Middlesex County)</td>
<td>Graduate Student Fellow studying in the field of Ecology and Evolution</td>
<td>7th &amp; 8th grade mathematics teacher; 6th, 7th, &amp; 8th grade technology teacher</td>
</tr>
</tbody>
</table>

In summary, seventeen middle school teachers and seven Graduate Student Fellows contributed to the 2008 Building a Learning Community Program. Throughout the academic year, approximately 1500 middle school students benefited from the lessons developed and presented by the Fellows as they worked collaboratively with team teachers at their middle schools.

Our external evaluators (Research for Action, Philadelphia, Pennsylvania) conducted a formal evaluation of the program using pre- and post- questionnaires for Fellows and teachers; led focus group discussions with the Fellows; observed team interactions during the summer Institute and at follow up meetings; and interviewed members of the project faculty and staff. These formal evaluations were coupled with the informal measures used by project staff and were based on observations and comments from Fellows and teachers, during weekly meetings, at follow up workshops and during school visits. Overall, the project met its objectives for the 2008-2009 academic year. As this was our final year of NSF support, we continued to explore possible ways to sustain the project beyond the funding period, including developing a course offering based on these outreach experiences and maintaining a STEM graduate student presence on the Rutgers Science Explorer Bus. The middle school teachers with whom we have worked strongly indicated their desire to maintain their affiliation with the Program, and cited reasons such as collaboration, knowledge, new ideas, influences on middle school students, and learning from other teachers.

**The Rutgers Science Explorer**

In December, 2005 the project director, Dr. Kathleen Scott, officially launched the Rutgers Science Explorer, a 40 foot, state of the art, custom designed mobile laboratory and science demonstration center that brought innovative hands on activities to middle school students. The Rutgers Science Explorer extended the Rutgers science community beyond the New Brunswick/Piscataway campus and brought a “Rutgers Science Day” to schools and communities around the state of New Jersey. Activities that were offered on the Bus were suitable for middle school students and encompassed areas most frequently covered in middle school curricula: the life sciences, earth sciences and physical sciences. Many of the activities also incorporated mathematics and technology. Graduate Student Fellows who participated in the 2008 Building a Learning Community project conducted the hands on Bus workshops based on four activities: “Volcanoes!”, “Parallel and Series, Mr. Edison?”, “DNA Detectives” and “Skeleton Detectives.” During the year, two new activities were developed by the Graduate Student Fellows and were used with middle school students who visited the Bus; these included "Drilling into Science: A Petroleum and
Oil Exploration" and "One Fish, Two Fish - Marine Ecology." From the period of September 2008 through June 2009, the Bus had visited over 3,000 middle school students.

STEM Faculty

Dr. Kathleen M. Scott, Professor, Department of Cell Biology & Neuroscience and director of the Math and Science Learning Center, is Project Director. Co-project directors included Dr. Michael Carr, Professor, Department of Geological Sciences; Dr. Jolie Cizewski, Professor, Department of Physics & Astronomy; Dr. Warren Crown, Professor, Department of Learning & Teaching, Graduate School of Education; and Dr. Joseph Rosenstein, Professor, Department of Mathematics. The National Science Foundation funded the GK12 project. Additional support was provided by Rutgers University.

Mathematics Programs

- **Standards-Based Workshops for K-12 Teachers.** The Center offers workshops for elementary, middle, and high school teachers that address New Jersey’s Core Curriculum Content Standards as they are reflected in the state assessments. Workshops related to NJ ASK 3-4, GEPA, and HSPA assessments are offered throughout the year, and districts can arrange to have ASK 3-4 workshops scheduled locally with presenters who were trained by the New Jersey Mathematics Coalition.

- **Teaching Excellent Mathematics: An Institute for New Mathematics Teachers.** This standards-based program is designed to enhance instruction by new high school and middle school mathematics teachers. During the week-long summer institute, experienced teachers and supervisors work with participants on the actual courses they will teach in the fall, orient them toward emphasizing problem-solving and conceptual understanding, involve them in planning lessons and units, develop in them confidence and security, encourage them to continue their personal identification and growth, and help create a supportive network of peers and mentors who provide assistance and encouragement during the year.

- **Leadership Program in Discrete Mathematics for K-8 Teachers.** This program is designed to create a leadership group of teachers who will introduce discrete mathematics into their classrooms and curricula, and will introduce their colleagues to the materials and activities that they used in their own classrooms. Participants attend a two-week institute during the summer, followed by up to six follow-up sessions during the school year and a one-week institute the following summer. Since 1995, there have been 55 such institutes, with a total of over 1400 participants, in eleven states (AL, AZ, IN, MA, MS, NC, NJ, OH, PA, RI, SD, and VA). Funding from 1995 to 2001 was provided by the National Science Foundation. Since 2001, grant funding for these programs have been obtained from the Departments of Education or Higher Education in AL, IN, MA, OH, PA, RI, and SD and from the Department of Homeland Security; this effort was made possible by a grant from the Educational Foundation of America that provided partial support to enable the successful NSF-funded programs to be replicated at other sites. This program is co-sponsored by the Center for Discrete Mathematics and Theoretical Computer Science (DIMACS).

- **Crash Course in Discrete Mathematics.** Since 1997, the Center has sponsored each summer the “Crash Course in Discrete Mathematics”. The crash course is a four-day institute for high school teachers who have little to no prior experience with discrete mathematics. Participants get a taste of what discrete mathematics is all about, and how they can use those contemporary topics in the classroom. The institute aims to show teachers that discrete mathematics will make math concepts come alive for their students, and that it is appropriate for students of all levels and all abilities. Many teachers who incorporate discrete math find that it offers a way of motivating unmotivated students and challenging honors students at the same time. Crash Course is based on the Leadership Program in Discrete Mathematics for High School Teachers that took place with NSF support from 1990-1995.

- **Discrete Mathematics Workshops in Your District Program.** This project provides an opportunity for the teachers of a district to have a full-day workshop in discrete mathematics at relatively low cost. As an outgrowth of the Leadership Program in Discrete Mathematics, teachers who have participated in this program (and have received special training) are available to conduct workshops on discrete mathematics for any group
of teachers in any school district. This project is co-sponsored by the Center for Discrete Mathematics and Theoretical Computer Science (DIMACS).

- **Conference on Good Ideas in Teaching Precalculus and...** Now in its twenty-third year, this annual one-day conference draws numerous high school and college teachers from New Jersey and neighboring states to participate in workshops which present and discuss good ideas in teaching courses for high school and first year college students. Topics discussed include algebra, precalculus, geometry, probability and statistics, discrete mathematics, calculus, and the use of technology.

- **Young Scholars Program in Discrete Mathematics.** This four-week residential summer program for mathematically talented high school students has been conducted for 19 years. By exposing them to exciting new topics in mathematics, the program aims to arouse their interest in the mathematical sciences leading possibly to careers in these areas. The Young Scholars Program was funded for eight years by the National Science Foundation and, in the following years, supported by generous grants from the AT&T Foundation. The Young Scholars Program is co-sponsored by the Rutgers University Center for Mathematics, Science, and Computer Education (CMSCE) and the Center for Discrete Mathematics and Theoretical Computer Science (DIMACS). In 2008-2009, the program was not conducted because of insufficient enrolment which we believe was a reflection of the difficult economic condition experienced by families of potential applicants.

### Science Programs

- **Waksman Student Scholars Program (http://morgan.rutgers.edu).**

The Waksman Student Scholars Program (WSSP) is directed by Professor Andrew Vershon (Department of Molecular Biology and Biochemistry), and is co-directed by Dr. William H. Sofer (retired). The WSSP has been designed to connect high schools and the Rutgers University research community by engaging teachers and students with University faculty and GE Healthcare professional to collaborate on an authentic research project in molecular biology and bioinformatics. The primary goal of the 2008 WSSP was to develop and encourage a research climate in the schools by establishing, supporting and sustaining on-going relationships among research scientists and teams of high school teachers and students. The WSSP consisted of two interrelated parts: the WSSP summer Institute and the WSSP academic year program. The Waksman Student Scholars Program entered its sixteenth year with the 2008 summer Institute, which ran from July 7, 2008 - August 1, 2008.

20 teams made up of 22 teachers and 38 high school students from around the state of New Jersey participated in the month long program. Participants in the summer Institute attended daily seminars and worked in the laboratory, learning the procedures, skills and techniques that were used to carry out the research activities back at their high schools during the academic year. There was a strong emphasis on data analyses, computational biology and bioinformatics. Additional sessions included deliberating bioethical issues, exploring career opportunities and attending seminars given by guest speakers and graduate students enrolled in the GSE Five Year Teacher Education Program. Participants also met with University scientists and scientists from our corporate sponsor, GE Healthcare, to discuss recent advances in the field of molecular biology. The summer Institute concluded with a poster session, when students presented their month long work to scientists, Rutgers faculty, guardians and siblings. The students and teachers who participated during the summer Institute were encouraged to recruit more students to join in the research activities during the academic year. As a result, for the period of September 2008 through June 2009, approximately 300 high school students made contributions to the research project. 13 of these students enrolled in the 3-credit Rutgers course that was affiliated with the project entitled “Introduction to Research in Molecular Biology (01:119:105).

The research project for the 2008 WSSP focused on the genomic analysis of the brine shrimp Artemia franciscana, and how the genes from this organism compare to genes found in other species. Students in the project isolated and sequenced genes from brine shrimp using a cDNA library. The sequences from these genes had never been determined before. Some of the students’ analyses have been published in the international sequence databases for use by the scientific community. (For a listing of the sequences, please go to the web site <http://www.ncbi.nlm.nih.gov> select “nucleotide” in the Search Box and type in “WSSP” in the dialogue box after the ‘for’ prompt). For the period of September 2008 - June 2009, approximately 800 new sequences were analyzed.
by the students. Over 100 of the new Artemia sequences that were analyzed by project participants were published on GenBank with the students as authors.

As part of the academic year activities, six follow up meetings were conducted back at the Waksman Institute. Since laboratory activities are minimal during these sessions, many more students are invited to attend, and frequently well over 100 guests, including high school students, teachers, project faculty and staff, and scientists from our corporate sponsor, GE Healthcare, joined us. The 2008 WSSP concluded on June 2, 2009 with the Waksman Forum Poster Session hosted by GE Healthcare in Piscataway, NJ. High school students presented their findings from their yearlong research endeavors by defending their posters to University and industry researchers, teachers, peers, parents, guardians, and siblings.

• 2008 HiGene: A Genome Sequencing Project for High Schools

HiGene: A Genome Sequencing Project for High Schools is an ITEST Comprehensive Project that receives funding from the National Science Foundation. The goal of this program was to help teachers use information technology, specifically bioinformatics and the computer analysis of protein and nucleic acid three dimensional structures. Together project faculty worked with teachers to develop strategies that were introduced into existing high school programs and reflected the way that science is actually practiced.

During the summer of 2008, ten out of state teachers attended an intensive one week summer Institute at the Waksman Institute. All aspects of WSSP - including seminars and laboratory activities in molecular biology and bioinformatic analysis - were conducted. Some of the out-of-state teachers were able to incorporate aspects of HiGene into existing programs at their school. The use of web based conferencing tools made it possible for Dr. Vershon to conduct several interactive sessions with out-of-state students in their classrooms as they worked through the DNA sequence analysis using DSAP. Over 100 out-of-state high school students contributed to the 2008 research project.

• DNA Sequence Analysis Program (DSAP)

As part of the 2008: Learning by Doing Project, which receives funding from the National Science Foundation, the online, interactive web-based tool known as the DNA Sequence Analysis Program or DSAP was unveiled in January 2009. Working with computer programmers, project faculty and staff have designed DSAP to help students analyze the novel DNA sequences they find while conducting their wet laboratory investigations. Ultimately they publish their findings on international genomic databases (specifically the databases found at the National Center for Biotechnology Information (NCBI)).

In addition to being interactive, DSAP is also used for instruction. Supporting materials include Help Sections and Tutorials on topics in molecular biology and genomics. DSAP is also an embedded assessment tool: it provides information about how technology education can support knowledge acquisition by students who are engaged in an authentic scientific research project.

Project Evaluation: Both the WSSP and HiGene used formative and summative evaluation protocols to monitor progress throughout the year. During the summer, pre- and post- Institute evaluations were administered that monitored changes in student attitude and viewpoints about the nature of science and the way science is practiced. A pre- and post-instrument was also administered to identify gains in knowledge. A very important evaluation tool for the project was the DNA Sequence Analysis Program, or DSAP. It was designed to help users go through the steps required to analyze DNA sequences before these are submitted to international databases. As it guided users through the analysis of DNA sequences, it automatically presented the next question based on previous responses, thus serving as an embedded assessment of conceptual knowledge and understanding of molecular biology and bioinformatics. All responses were catalogued and archived in a database, allowing for the monitoring of student progress and the online guidance they received from their teachers.

Project Directors

The WSSP, HiGene and DSAP were directed by Dr. Andrew Vershon, Department of Molecular Biology and Biochemistry, and Dr. William Sofer (retired). These projects were held at, and administered by, the Waksman
Institute, Busch Campus, Rutgers University. Table 1 provides further information about the high schools represented in the 2008 project.

<table>
<thead>
<tr>
<th>#</th>
<th>School</th>
<th>City</th>
<th>State</th>
<th>County</th>
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<td>Hudson</td>
<td>Class</td>
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<td>Club</td>
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<td>NJ</td>
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<td>Official after school class</td>
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<td>Club</td>
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<td>Class</td>
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<td>Somerset</td>
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<td>West Windsor Plainsboro High School South</td>
<td>Princeton Junction</td>
<td>NJ</td>
<td>Mercer</td>
<td>Club</td>
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</tbody>
</table>

The WSSP program was chosen as one of six ITEST projects to be part of the ITEST Media Initiative that was produced by WGBH. The project profile is entitled "Publishing Genome Research". The resulting production was debuted by WGBH at the ITEST Summit meeting on Feb 25-27, 2009 in Washington, DC. The links to this are posted on the ITEST EDC web site: [http://itestlrc.edc.org/sites/itestlrc.edc.org/inside_itest/njprofile.html](http://itestlrc.edc.org/sites/itestlrc.edc.org/inside_itest/njprofile.html)

**Technology Programs**

The Digital Teaching and Learning Lab @ CMSCE has developed a series of professional development experiences to assist educators as they bring the latest advances in technology into their classroom. CMSCE technology professional development workshops are offered in the following areas: Art, Language Arts, Mathematics, Science, Social Studies, Technology Integration, Collaboration, Learning Strategies, SMART Board, Special Education, Test Prep, and Video Conferencing. Teachers from every legislative district in the state attend our workshops. These workshops are conducted at the Digital Teaching and Learning Lab as well as in school districts.
• **21st Century Learning Initiative**
  The Center piloted its 21st Century Learning Initiative in five New Jersey school districts during the 2008-2009 academic year. The CMSCE 21st Century Learning Initiative is designed to help educators keep up with today’s changing educational and technology needs. The goal is to increase teacher and student academic content knowledge through hands-on workshops, coaching/mentoring sessions, professional learning networks and online collaborations. Teachers will develop a necessary level of expertise and comfort to integrate the 21st Century Tools into their classrooms.
  - 33 Teachers from across the State immersed themselves in social networking tools such as Twitter and Diigo to develop educational personal learning networks.
    - School District of the Chathams: Chatham High School
    - Camden School District: Octavius V. *Catto* Community School
    - Matawan Aberdeen School District: Cliffwood Elementary School
    - Spring Lake Heights: SLH Elementary School
  - Lisa Thumann facilitated ongoing face-to-face meetings and online communications encouraging the teachers to share resources and classroom experiences
  - The teachers were charged with implementing projects using 21st Century Skills with their students.
  - Lisa Thumann mentored and co-taught in each of the classrooms enrolled in the Initiative
  - Resources for the Initiative were:
    - [http://Thumannresources.com](http://Thumannresources.com)
    - [http://twitter.com](http://twitter.com)
    - [http://www.diigo.com](http://www.diigo.com)

• **Video Conferencing**
  The Center is a recognized leader in the area of video conferencing. We offer workshops to schools as well as coordinate video conferencing events for other faculty at the University to enhance their ability to share information with peers around the country.

  The Center received a grant from Verizon to lead a state collaborative effort to put together all the NJ educational resources that provide programming over video conferencing to K20 students and teachers. The Center reached out to content providers throughout New Jersey and the tri-state area to put together over 300 quality K12 programs that are aligned to state standards. This year the grant was renewed to expand and update the videoconferencing offerings. The programs are in a database that can be searched by grade level and content to better meet the teachers’ needs. Polycom provided the funding to print the catalog that has been disseminated at conferences and workshops throughout the state. The online catalog can be found at: [http://cmsce.rutgers.edu/resources/vc/search/search_verizon_db.php](http://cmsce.rutgers.edu/resources/vc/search/search_verizon_db.php)
  In addition to content provider information, the catalog provides contact information for over 100 teachers in New Jersey who would like to participate in videoconferencing collaborative activities.

**Workshops**
  The Center continues to have workshops for teachers and content providers to increase the programming available for the K12 community. Updates to the programs occur several times during the year. The Center provides several programs to assist teachers as they experience videoconferencing. The Center works with Rutgers professors to bring experts into the K12 classroom.

**Read Across New Jersey Year II**
  Read Across New Jersey paired 56 classes via web cam or room-sized videoconferencing equipment to share literacy activities. An interactive website was created and maintained by the Center to enhance the collaborations.

**Read Across the Atlantic** partnered 30 classes (15 in the US with 15 in Wigan, UK.) The Center worked with the UK coordinator to pair the classes, test and create an interactive online environment with an eBoard.
Teachers and students met via webcam or room-sized equipment to present literacy projects and share their unique cultures.

**Elluminate**
The Center worked with Rutgers and Elluminate support to offer K12 teachers an opportunity to reach out to their peers and content providers around the world. Training was held by Center staff on how to use the software, hardware and to integrate it into the curriculum.

**Content Provider Connections**
The Center provided customized support to K12 schools on the use of videoconferencing equipment and software and on its integration into the curriculum. After initial training, Center staff worked with the teachers individually to find programming to support teaching and learning. Judy Bornstein worked with authors, historians, professors and other content providers to make the videoconferencing experience an exciting learning adventure for each class.

These initiatives have placed the Center in the forefront of this exciting technology that will bring the world to the classroom.

- **Whiteboards**
  Interactive whiteboards give educators and students the ability to make ink electronic. Lessons that were once one dimensional now easily become engaging, two-dimensional and interactive. Web 2.0 are web applications that make the Internet more participatory. Students and educators using Web 2.0 applications such as blogs, wikis and podcast generators are connecting with others through content on the Internet.

CMSCE has taken on an increasingly more prominent role in technology integration in districts throughout New Jersey. Many of our courses are now taught in districts as well as in our lab. Districts turn to us for help in utilizing their Videoconferencing systems. As the number of districts purchasing SMARTBoards and Promethean ActivBoards increases, so does the number of districts that request us to in-service their staff. We provide training for interactive whiteboarding across the curriculum in-district as well as with the SMARTBoard and Promethean board we have in our lab at the Center.

- **Google Workshop for Educators**
The CMSCE partnered with CUE Inc to offer NJ educators the Google Workshop for Educators (GWE). A GWE introduces participants to innovative ways Google tools can be used in education. A full day of fast-paced presentations and hands-on activities includes experience with advanced search techniques, collaborative web-based applications, and inspirational instructional strategies. Google Certified Teachers share ways they’ve implemented tools such as Google Docs, Google Earth, Google Sites, and... even more. Participants who complete the event are given access to the Google Workshops for Educators Network (GWEN), an online community focused on supporting educators as they learn more about the power of Google to drive student learning.

Lisa Thumann, the Center’s resident Google Certified Teacher, organized and facilitated two GWE’s during the year. The Center offered a GWE in March and in May with a total enrollment of 70 NJ educators.

- **Making a Difference: In-District Sustain Professional Development**
CMSCE offers high quality professional development designed for teachers to increase content knowledge and teaching strategies in three content areas: language arts literacy, mathematics, and science. The CMSCE in-district year-long initiative includes standards-based, hands-on workshops and coaching/mentoring sessions designed specifically for NJ districts based upon district textbooks, curriculum, and the Core Curriculum Content Standards. Because we want to assist teachers to reach ALL children in their classes we include strategies and activities specifically designed for students with special needs. Our specially designed personalized professional development will help teachers in districts better prepare ALL their students to attain high achievement in the classroom and on New Jersey assessment tests.
• **Universal Design for Learning (UDL)**
  CMSCE offers high quality professional development designed for teachers to increase content knowledge and teaching strategies in three content areas: language arts literacy, mathematics, and science. The CMSCE in-district year-long initiative includes standards-based, hands-on workshops and coaching/mentoring sessions designed specifically for your district based upon district textbooks, curriculum, and the Core Curriculum Content Standards. Because we want to assist teachers to reach ALL children in their classes we include strategies and activities specifically designed for students with special needs. Our specially designed personalized professional development will help teachers in districts better prepare ALL their students to attain high achievement in the classroom and on New Jersey assessment tests. We are currently working in 6 New Jersey districts helping them to implement UDL.

• **Technology Integration**
  The Center staff worked with more than 30 school districts and over 600 teachers to help them integrate technology into their curriculum. We also conducted workshops in the Digital Learning Lab for 750 teachers.

CMSCE offered a variety lab-based and in-district workshops on topics including:

- Language Arts Prep Across the Curriculum
- Test Prep for NJ ASK, GEPA and HSPA in Mathematics and Science
- Technology in the Math Classroom
- Academy for Collaboration at a Distance (ACAD)
- Internet Safety
- Curriculum Mapping
- Book Study: ASCD Priorities in Practice: The Essentials of Science
- eBoards
- Web 2.0 for Math
- Videoconferencing Showcase
- Project Based Learning
- SmartBoard
- Promethean ActivBoard
- Podcasting and Vodcasting
- Blogging
- PowerPoint, PowerPoint Producer
- Windows Movie Maker
- Geometer's Sketchpad
- Using a TI-Graphing Calculator
- Sketchup: Design Challenges in 3D
- Writing in Math
- Web 2.0 for Science
- Differentiating Instruction in Math for Special Needs Students

The Center offered free workshops on a variety of topics including:

- Internet Safety
- Smart Boards
- Promethean Activ Boards
- First in Math

The Center collaborated on the ESTEEMS (Establishing Excellence in Math and Science Education) grant to integrate technology tools into the teacher training.

• **Technology Integration in Pre-service Education**
  The Center collaborates with Dr. Prosper Godonoo, director of the Paul Robeson Cultural Center, to provide mentors to the Plainfield High School in Plainfield, NJ.
• **Special Needs**  
  Several workshops were available for professional development in all the curricular areas on the integration of technology into the curriculum.

**Technology Facilitators**

CMSCE conducts a wide variety of professional development offerings. We have assembled a dedicated and knowledgeable group of workshop facilitators. Below, we present biographical information about our workshop facilitators:

**Judy Bornstein** (jsborn@rci.rutgers.edu) is the Senior Technology Specialist at the Center. As a classroom teacher of both special needs students and technology, and staff member at the Center, she is continually researching the most current strategies for integrating technology into the curriculum. Judy is a Palm Certified Instructor. She has been involved in exploring videoconferencing in education for over 10 years.

**Patti Frank** (patti.frank@gmail.com) has taught grades K-8 for over 31 years with a focus on science education. Pat earned graduate degrees in education from The College of New Jersey and is proud to be a National Board Certified Teacher.

**Deborah Gries** (d_gries@hotmail.com) has facilitated workshops for CMSCE and mentored teachers integrating handheld technology into their classroom teaching since 2000. She has brought her knowledge of mathematics and science into the classroom through the use of handheld technology, GIS technology and SMARTBoards.

**Jackie Halaw** (mshalaw@yahoo.com) is a Nationally Board Certified, middle school science teacher in South Brunswick, NJ. Prior to working in South Brunswick, Jackie worked as a geologist and as an educator at Liberty Science Center in Jersey City. Her professional interests include interactive student notebooks, science test preparation, blogging, and she was recently trained as a Yahoo! Teacher.

**Heather Johnson** (hwjohnson@onelearningcurve.com) M.Ed., NBCT, has teaching experience in elementary and middle childhood education, working with students in urban and suburban districts. As a National Board Certified Teacher, Heather has engaged in creating professional development for teachers at elementary, middle and high school levels and in all subject areas to help them reach high standards of education in their classrooms.

**Karen Murray** (klmurray@rci.rutgers.edu) is a former chemical engineer who has been part of the educational community for more than 10 years. She has been involved in mathematics and science in schools as the Project Director for Merck Institute for Science Education (MISE) and MetroMath Center for Learning and Teaching, a project of CMSCE.

**Elyse Pernick** (epernick@yahoo.com) is a former classroom teacher who has been facilitating workshops for CMSCE since 2008. She has been involved in areas such as mathematics, interactive whiteboards, learning strategies and works with teachers in their classroom to help them incorporate newly learned strategies.

**Marilyn Rabinowitz** (marilynrab@aol.com) is a former literacy teacher and reading and writing specialist. Currently, she is an adjunct at Middlesex County College. Marilyn conducts workshops in reading and writing and works in the classrooms mentoring teachers.

**Roberta Rim** (robertarim45@gmail.com) is a former high school mathematics teacher and Assistant Superintendent from South Amboy School District. She has been a consultant at CMSCE since 2004. She is dedicated to making math instruction fun and exciting, to developing a love for learning mathematics, and to improving student performance. She is a trained instructor in UDL via CAST.org.

**Kristine Scharaldi** (kscharaldi@hotmail.com) is an experienced classroom teacher and has assisted teachers with technology integration in the curriculum for over ten years. Kristine earned a Masters Degree in Computers and
Education from Teachers College, Columbia University. Kristine is a SMART Certified Master Trainer for the SMART Board Interactive Whiteboard.

Dawna Schultz (denschultz@gmail.com) is a mechanical engineer and classroom teacher who has been working with the Center for over 5 years. She is a skilled presenter via videoconferencing and works with children to develop their understanding and love for all things engineering. She is a trained instructor in UDL via CAST.org.

Sally Schannen (sally.schannen@gmail.com) Sally Schannen is a consultant for professional development in mathematics, specializing in K to 8. She creates and disseminates instructional materials, demonstrates lessons, plans with teachers, gives in-class support, and instructs about current research and practices. She is a trained instructor in UDL via CAST.org.

Lisa Thumann (lisa.thumann@gmail.com) Lisa Thumann taught computers for grades K-8. In 2002, Lisa began working as a consultant for the Center and is now our Senior Technology Coordinator. Lisa explores ways to bring technology tools into the classroom to enhance student learning and teacher productivity. Lisa is a Google Certified Teacher. She is a trained instructor in UDL via CAST.org.

Comments from Participants

- Another excellent opportunity to create lessons, review UDL principles, technology resources and new hands-on activities to incorporate into lessons or centers. (administrator in Universal Design for Learning in-district initiative)
- The professional development provided me with a lot of additional and helpful information to make my lessons more engaging. (teacher in Internet Resources for All Learners)
- I loved all the different activities and websites for Algebra. I can’t wait to work with my students. (teacher in in-district mathematics professional development)
- I liked the fact that it was interactive, and provided tools for an interactive classroom. (participant in Basic SmartBoard workshop)
- What a great experience. The leader provided us with interactive resources plus wonderful technology. Excellent! (participant in Universal Design for Learning in-district initiative)
- Hands on practice helped to ‘cement’ new topics. I'm glad we didn't spend a great deal of time on basics. (participant in Universal Design for Learning in-district initiative)
- This workshop did what it was advertised to do. I learned about the NJ Ask, types of questions, strategies for students, and also interactive activities to help students prepare for them. I am grateful that the presenter was willing to share her materials with everyone. (participant in Test Prep workshop)
- What I liked best was that I was able to take home the activities we made during the workshop and immediately use them. (teacher in SMARTBoard for Science workshop)
- Wow! What great resources - access to SMART notebooks, templates and the "how to create activities" from the gallery - lesson activities toolkit. (participant in ABC Creating Lessons! workshop)
- This UDL workshop taught me all about social networking. I can’t wait to Tweet on Twitter! (participant in Universal Design for Learning in-district initiative)
- I appreciate the interactive hands on learning and time to explore different applications. (participant in Middle School Math Activities for SMARTBoard workshop)
- Hands on--excellent balance of explanations and demonstration with time to try out what was modeled (participant in Promethean Interactive Whiteboards workshop)
- It was amazing to realize how much information we have and that we can present it in new and exciting ways. (participant in SMARTBoard for Math workshop)
- Interactive, ability to ask questions and get what we need, tons of useable materials, and a great presenter. What else can I ask for? (participant in NJ ASK 7,8, Data Analysis and Probability workshop)
- The workshop included great activities to use in the classroom. (participant in Differentiating Instruction in the Math Classroom workshop)
- I loved everything but most of all I loved voki. I can see the students very involved in it. (participant in Google Teachers Workshop)
• Lots of prepared resources for us to use in our classrooms. Our students will learn a lot. (participant in End-of-Course Biology workshop)

**Comments from Participants in Collaborative Videoconferencing Projects**

• I enjoyed seeing the connection students made by asking and answering questions at the end of the presentations.
• It allowed our students the chance to meet and interact with students from other parts of the state.
• Seeing the children from both countries completely engaged and enjoying the experience. It was amazing. I still can visualize the faces of my students and those in the UK students, as they listened to each other. The final waving good-bye to each other was equally memorable. The student, as well as myself, just didn't want the contact to end. It was a phenomenal experience.
• When we can still make our children, who are saturated with technology go 'WOW' you know you have a hit. It has helped their understanding of cultural differences and really helped in their numeracy work on time difference. It was just great to see how children are the same no matter how far away they live.
• Just the idea of communicating with a different country was extremely exciting. We loved asking the other students questions and getting to know one another. We plan on continuing our conferencing.
• My students were surprised to learn that they do not have a president in England, that the UK students had no idea what the White House was, the UK does not have special days where they celebrate historical figures, but they do celebrate "Pancake Day" where they have a contest to see who can make the largest pancake at the school! My students thanked me over and over and said I was the best teacher they ever had, so I guess they had fun! : )
• The best part was that the students realized that although they live so far away, they really are quite similar. A lot of the interests are the same and that surprised them.
• Seeing the children from both countries completely engaged and enjoying the experience. It was amazing. I still can visualize the faces of my students and those in the UK students, as they listened to each other. The final waving good-bye to each other was equally memorable. The student, as well as myself, just didn't want the contact to end. It was a phenomenal experience. And both sides were very excited. This is a memory of a lifetime!
• I wanted to let you know that the Read Across the Atlantic is a big hit! We have already video conferenced once and have plans to do it at least 2-3 more times. The kids are having a wonderful time learning about other cultures and their school. What an amazing program!
• …and from a student: Their class was beautiful. One student answered my question about the queen. He said he saw her but it was in London. I was so sad when we had to leave them. I almost cried. I want to get together with our new friends again. It was sad when we all waved good-bye. I wish our whole class could go for a trip to their school. I would be friends with them.

**A look at our professional development in action**

The above comments were a brief sampling of the enthusiastic responses of workshop participants. Sometimes, one can also glean additional useful information by watching as teachers participate in the variety of programs we offer. Although we cannot share videos in this reports, we can show images that give a flavor of the involvement of participating teachers. A collage of these images appears on the next page.
MetroMath

**MetroMath: The Center for Mathematics in America’s Cities** is one of 13 Centers for Learning and Teaching funded by the National Science Foundation. MetroMath is a collaboration between The Graduate Center of the City University of New York, Rutgers University, and the University of Pennsylvania.

The MetroMath Center has identified three key issues in urban mathematics education, aligned with its focus, around which the research agenda has been organized:

- Interactions between urban families and communities, and the mathematics addressed in urban classrooms;
- The role of affect and motivation in learning conceptually challenging mathematics;
- Outcomes of policies aimed toward recruitment, education, and retention of qualified urban mathematics teachers.

- **MetroMath Study #1: Community-to-School Mathematics**
  
  *MetroMath lead faculty/staff: Massey, Remillard*

  The purpose of this study is to examine mathematical practices outside of school mathematics and their relationship to mathematics learning in schools. We use the term *out-of-school practices* to refer to a number of activities, structured and unstructured, during afternoons, summers, and weekends that fall outside the time and settings allocated for mathematics instruction in schools. Activities and practices in these different settings may make distinctly different contributions to learning. School-based learning, with an emphasis on mathematical notations, algorithms, and systems of wide generality, may be unparalleled in introducing students to the power of formal mathematics (e.g., algebra; generalized procedures for performing calculations with rational numbers). However, classroom instruction has been less effective at developing an intuitive sense of mathematics that is readily accessible for thinking in other settings and that is fluidly integrated with purposeful activities.

  The disconnections between in-school and out-of-school mathematics are well documented in the literature. The aim of this study is to examine in great detail the relationship between out-of-school and in-school mathematics activity in order to consider the possibility that greater connections might be forged and that disconnections might be explained.

- **MetroMath Study #2: The Role of Caregivers in Supporting Conceptually Challenging Mathematics Learning**
  
  *MetroMath lead faculty/staff: Ginsburg, Remillard*

  This study is examining the roles that urban parents and other caregivers are given and/or choose to enact to support their children’s mathematics learning, particularly in relation to their children’s homework. It also examines the children’s mathematics positioning, by others and by themselves, as they cross back and forth between school and home.

  The goal of this group is to develop a research base that will identify resources and opportunities that could be coordinated to promote the learning of conceptually challenging mathematics, making school mathematics a more effective, powerful, and meaningful experience for urban students.

- **MetroMath Study #3: Affect and Motivation**
  
  *MetroMath lead faculty/staff: Goldin, Schorr, Epstein*

  This study is investigating the development of powerful affect around conceptually challenging mathematics in urban classrooms. The Affect Working Group is implementing one study, in two sites, seeking to understand
how to create conditions in classrooms that make urban students engaged and invested learners of mathematics. The initial sites were selected based on evidence these conditions are present. The middle grade level was chosen for a variety of reasons, but most particularly because this is considered a pivotal or critical age for children in mathematics – an age when achievement differences can become exacerbated (e.g., see NAEP data).

The study entails identification of affective variables and indicators in relation to the literature and in relation to our prospective research sites in Newark and Plainfield; the formulation of interview protocols and questionnaires for use with professional staff; interviews with teachers and other professional staff; and initial classroom observations.

- **MetroMath Study #4: Policy Approaches to Recruitment and Retention**

  *MetroMath lead faculty/staff: Liu, Rosenstein*

  This study is surveying the broad array of strategies and policies that have been instituted in cities across the United States for recruiting, preparing and retaining middle and high school teachers of mathematics to the profession. Strategies considered include alternate routes to certification, increasing teacher preparation programs, recruitment of career teachers (“Resident Teacher Corps”), programs encouraging temporary coverage (“Teach for America”), and importing teachers.

  This study addresses each of a number of policy approaches to the issues of the recruitment, retention, and professional development of urban teachers of mathematics. The goal of the study is to document and understand the various policy approaches that urban districts are employing to recruit, retain, and develop math teachers. The expectation is that MetroMath will be able to provide information and guidance to urban districts on which policy approaches they might reasonably pursue.

- **MetroMath Study #5: Mathematics Alternative Certification Study**

  *MetroMath lead faculty/staff: Cooley, Donoghue*

  This three-year study focuses on alternative teacher certification, one of the policy choices to be broadly studied in MetroMath Study 4 (above). It examines the preparation of alternatively certified mathematics teachers (grades 7-12) with regard to their capacities to present and engage students in conceptually challenging mathematics, including how they bring content knowledge and pedagogical content knowledge to classroom activity. It also examines broader issues such as the components of alternative certification programs instituted in various urban settings, and the characteristics of the programs’ participants.

  This study is:
  - Documenting aspects of the design and implementation of alternative mathematics teacher certification programs that bear upon teaching conceptually challenging mathematics.
  - Providing data and analysis that could inform policy decisions by school district officials and program revisions by participating colleges and universities.
  - Identifying factors (preparation, opportunity) that may be associated with retention or intent to remain in urban mathematics teaching.

**CMSCE Preliminary Report on Outreach Initiatives as of June 15, 2009**

With support from Vice President Pazzani, we began an effort to identify outreach initiatives by Rutgers units. This work built upon previous efforts to locate similar information.

For a number of years the Center for Mathematics, Science and Computer Education (CMSCE) has tried to collect information about K-12 activities at Rutgers. Since our Center deals mainly with Science, Technology, Engineering and Math (STEM), we only concentrated on those initiatives. A few years ago we worked with OIT to build a preliminary portal (K12.rutgers.edu) to allow people to find these initiatives. It was a start but was never enhanced and never got to the point of being rolled out.
In the spring of 2008 Gerald Goldin, University Director, Science and Mathematics Partnerships and I met with Vice President Pazzani to talk about the importance of developing a well-designed web portal to bring these initiatives to the attention of the public. Vice President Pazzani, agreed that we should work on collecting information and developing a web portal. He provided partial funding for a GA, Kathy Lin, who worked with us on this initiative starting in the summer of 2008.

We had a meeting with a variety of people last summer to discuss preliminary ideas. Attending that meeting were Mike Beals (SAS Dean’s office), Richard DeLisi (GSE Dean), Yakov Epstein, Jerry Goldin (University Director of Math and Science Partnerships), Kathy Lin, Mike Pazzani, Harriet Schweitzer (Associate Director CMSCE), Kathy Scott (Director of MSLC). The goal of that meeting was to brainstorm ideas for a web portal that will provide systematic and helpful information about Rutgers-based P-16 outreach efforts to a variety of audiences. In particular, we were concerned about how to effectively structure such a web portal. The outcomes of that meeting were to (1) compile a list of people who could provide us with useful input in the planning stages (admissions, engineering, other departments, people at Newark and Camden,); (2) compile a list of questions to ask these people (suggestions about audience, dimensions, programs we should make sure to include.). These suggestions were emailed to Kathy Lin.

After Kathy got the list of suggested people, she wrote to them with the questions identified in the responses she received. Based on these responses, we refined our categories. We tested the categories using the information we already had about existing programs to see if the categories were appropriate and sufficient. Then we created a blueprint of our goals for the website, considering user needs. We also requested suggestions from some of the people we contacted about models of portals of the type we were considering that were being used by other universities (for example, one at the University of Minnesota).

In April 2009 we sent an email to faculty and staff on all three Rutgers campuses. The email said “Under the sponsorship and guidance of Vice President Michael Pazzani, we are creating a web portal which will make information about Rutgers outreach efforts and partnership programs in pre-K through college education more accessible. We envision this web portal serving a wide range of purposes such as connecting students, parents, and schools with Rutgers-based educational programs; connecting Rutgers faculty members and students who want to be involved in education to existing programs; and sharing research conducted at Rutgers with both researchers and practitioners. “We requested details of initiatives with which the email recipients were involved.

We received responses from 124 people. Some of them described a single program with which they were associated. Others described several programs. Some responders wrote about a Center or Institute which conducted multiple programs but sent only information about the unit without describing the myriad programs it offered. Others described multiple programs offered by their unit. In all we received descriptions of 202 initiatives. Some of these responses described graduate programs which, while very interesting, were not what the portal was meant to describe. In all, the email responses described 167 unique programs which are listed in this preliminary report.

Many persons communicating with us told us they thought a portal was very much needed and asked to be informed about the initiatives we located. This preliminary report is a way of sharing what we found.

The last section of the preliminary report lists the name and number of each program that is more fully described in the report. We also categorize programs by sponsoring unit and by program type.

We envision that the location of the portal will be on the Serving New Jersey page of the Rutgers website. We want visitors to easily find the portal and use it to find the information they seek.

Legend for Table of Programs Located:

Program Type:
A = Health And Child Development Programs
B = Sports Programs
C = Visual Arts, Music, Dance or Drama Programs
D = Reading and Writing Programs
E = World Languages Programs
<table>
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<th>#</th>
<th>Program Name</th>
<th>Unit Sponsoring Program</th>
<th>Program Type</th>
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<td>REaCH (Rutgers Early College Humanities Program)</td>
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<td>Rutgers English Summer AP Institute</td>
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<td>Street Law</td>
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<td>G,I,J</td>
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<td>74</td>
<td>We the People: the Citizen and the Constitution</td>
<td>29</td>
<td>G,I,J</td>
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<td>75</td>
<td>Citizen Science</td>
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<td>76</td>
<td>Invasive plant monitoring project</td>
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<td>Certificate Program in Professional Youth Work Outreach</td>
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<td>78</td>
<td>Science Learning Teacher Professional Development (Grade K-12)á</td>
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<td>79</td>
<td>Summer Institute in Science Learning</td>
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<td>Teachers as Scholars</td>
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<td>Program in American Language Studies – English as a Second Language</td>
<td>24</td>
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<td>82</td>
<td>Rutgers in the Community</td>
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<td>Physics Union Mathematics</td>
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<td>84</td>
<td>Rutgers Astrophysics Institute</td>
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<td>F,J</td>
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<td>85</td>
<td>Rutgers Summer Dance Camp</td>
<td>21</td>
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<td>86</td>
<td>Rutgers Dance Conservatory</td>
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<td>87</td>
<td>Rutgers Indian Performing Arts Summer Camp</td>
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<td>Working Families Program</td>
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<td>US History Saturday Academy Program</td>
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<td>Teaching American history</td>
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<td>Rutgers-Camden School Leaders Academy</td>
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<td>Rutgers LEAP Pre College Program</td>
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<td>Developing Safe and Civil Schools (DSACS)</td>
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<td>A,J</td>
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<td>Rutgers University Senior Citizen Audit Program</td>
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<td>PSYCHOLOGICAL SERVICES CLINIC</td>
<td>16</td>
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<td>96</td>
<td>Project: Natural Setting Therapeutic Management (NSTM)</td>
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<td>A,J</td>
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<td>97</td>
<td>The Academy at Rutgers for Girls in Engineering &amp; Technology</td>
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<td>F,I</td>
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<td>#</td>
<td>Program Name</td>
<td>Unit Sponsorings</td>
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<td>98</td>
<td>Art Across the Curriculum-Museum Education</td>
<td>05 C,D,F,G</td>
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<td>DEARTS-Distance Learning in the Arts</td>
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<td>Poetry Out Loud</td>
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<td>Stages of Discovery: Performing Arts Program</td>
<td>05 C,D,F,G</td>
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<td>Camden Arts Education Professional Development: Workshops for Teachers</td>
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<td>103</td>
<td>Summer Art Soup</td>
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<td>Rutgers Science Explorer</td>
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<td>Rutgers Reading Program</td>
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<td>Chinese Crafts and Songs for Kids (Chinese Enrichment Program)</td>
<td>29 C</td>
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<td>Conversational Chinese (all levels)</td>
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<td>Doing Business in China</td>
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<td>International Conferences on China</td>
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<td>110</td>
<td>Chinese Performing Arts Show and Workshops</td>
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<td>K-5 training workshop for immersion/bilingual Chinese school teachers</td>
<td>29 E,J</td>
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<td>CIRU Chinese Bridge Summer Camp in China</td>
<td>29 E</td>
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<td>Be. Rutgers Chapter</td>
<td>36 K</td>
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<td>114</td>
<td>RU Big Buddy</td>
<td>36 K</td>
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<td>Pilot Me Mentoring/Mentoring/Tutoring Program</td>
<td>36 K</td>
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<td>116</td>
<td>Reach Out and Read</td>
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<td>Rutgers Readers</td>
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<td>Scarlet Day of Service</td>
<td>36 K</td>
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<td>Winter Wishes</td>
<td>36 K</td>
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<td>Martin Luther King Jr. Day of Service</td>
<td>36 K</td>
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<td>Passaic County 4-H Youth Development Program</td>
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<td>New Brunswick Community Interpreter Project</td>
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<td>BizEd</td>
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<td>Creative Dramatics</td>
<td>21 C,K</td>
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<td>125</td>
<td>SPARC (Science Preparation Alliance of Rutgers and Camden)</td>
<td>05 F,J,K</td>
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<td>126</td>
<td>From Our Farms</td>
<td>33 A,D,F,K</td>
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<td>Newark Schools Research Collaborative</td>
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<td>Institute on Education Law and Policy</td>
<td>22 H,I</td>
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<td>Rutgers Young Scholars program in Discrete Mathematics</td>
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<td>Paul Robeson Library/Camden Public School Media Centers Initiative</td>
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<td>131</td>
<td>Rutgers Institute for High School Teachers sponsored by the Center for Historical Analysis</td>
<td>29 E,G,J</td>
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<td>Electronic New Jersey</td>
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<td>Chemistry Connections</td>
<td>29 F</td>
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<td>134</td>
<td>The Scholars Training and Enrichment Program (STEP)</td>
<td>28 K</td>
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<td>Tours of the Institute of Jazz Studies</td>
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<td>Research Experience for Undergraduates (NSF funded)</td>
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<td>137</td>
<td>RUN Art</td>
<td>24 C</td>
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<td>138</td>
<td>Cognitive Science goes to school. Preschool Pathways to Science</td>
<td>29 F,H</td>
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<td>139</td>
<td>Online Career Planning</td>
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<td>#</td>
<td>Program Name</td>
<td>Unit Sponsoring Program</td>
<td>Program Type</td>
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<td>Rutgers University EcoComplex</td>
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<td>Center for International Scholarship in School Libraries</td>
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<td>144</td>
<td>Merck-Rutgers Summer Institute in Bioethics</td>
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<td>CMES high school teachers Arab Heritage Workshop for Teachers at the RCHA</td>
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<td>Nurture thru Nature (NtN)</td>
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<td>147</td>
<td>Nutritional Sciences Preschool</td>
<td>33</td>
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<td>148</td>
<td>Special Education Clinic</td>
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<td>NEW LeadershipTM (National Education for Women’s Leadership)</td>
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<td>Pathways to Politics</td>
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<td>RU Ready</td>
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<td>RU Voting</td>
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<td>153</td>
<td>21st Century Learning Initiative</td>
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<td>After School Academies</td>
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<td>Google Workshops for Educators</td>
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<td>Interactive Whiteboards</td>
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<td>157</td>
<td>Universal Design for Learning</td>
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<td>D,F,J</td>
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<td>158</td>
<td>RISE (Research in Science and Engineering) at Rutgers/UMDNJ</td>
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<td>Academy for Collaboration at a Distance (ACAD) Summer Institute</td>
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<td>160</td>
<td>College Connections</td>
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<td>Special Events Free Workshops</td>
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<td>162</td>
<td>Peace Corps Connection</td>
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<td>163</td>
<td>Read Across the Atlantic</td>
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<td>164</td>
<td>Read Across New Jersey</td>
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<td>Verizon K20 Videoconferencing Catalog</td>
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<td>166</td>
<td>Professional Development Workshops for K12 Educators</td>
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<td>167</td>
<td>COSEENOW–Centers for Ocean Science Education Excellence Networked Ocean World</td>
<td>33</td>
<td>F,H,I,J</td>
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</table>

Program #: 1 Name of Program: R U Weather Wise?
Unit or Department Sponsoring Program: Dept. of Environmental Sciences
Website: [http://www.envsci.rutgers.edu/clubs/metclub/weatherwise.htm](http://www.envsci.rutgers.edu/clubs/metclub/weatherwise.htm)
Program Description: The Rutgers University Meteorology club is seeking to educate students about the problems facing the field of atmospheric science today. Through this program the club seeks to build a foundation of knowledge about how the weather works, why climate change is such an important issue, and establish a connection between meteorology and a variety of other sciences and disciplines.

Contact Person: Current Club President  
Contact Phone: none given  
Contact email: [http://Ruoutreach@envsci.rutgers.edu](http://Ruoutreach@envsci.rutgers.edu)

Populations involved:

Students P-16

Teachers\(^2\): not involved

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1 The list of programs initially collected was reviewed and some programs originally listed were deemed to be not applicable for the portal. They were removed from the list but the remaining programs kept their original numbers. Therefore there may be some missing program numbers in the attached list.

2 Numbers such as 12, in the populations involved field, refer to grade in school (e.g. grade 12) not ages (e.g. age 12)

3 Teachers refers to P-12 teachers NOT to Rutgers Faculty or other college or university faculty
**Program #: 3** Name of Program: Trenton Central High School Mentoring Program  
Unit or Department Sponsoring Program: Journalism Resources Institute  
Website: [http://www.scils.rutgers.edu/jri](http://www.scils.rutgers.edu/jri)  
Program Description: Trenton Central High School Mentoring Program  
Contact Person: John Pavlik  
Contact Phone: 932-732-7500 x 8026  
Contact email: jpavlik@rutgers.edu  
Populations involved: students 9-12; Rutgers students

**Program #: 4** Name of Program: Bergen Academies high school journalism and new media  
Unit or Department Sponsoring Program: Journalism Resources Institute  
Website: [www.scils.rutgers.edu/jri](http://www.scils.rutgers.edu/jri)  
Program Description: Bergen Academies high school journalism and new media educational curriculum  
Contact Person: John Pavlik  
Contact Phone: 932-732-7500 x 8026  
Contact email: jpavlik@rutgers.edu  
Populations involved: students 9-12

**Program #: 5** Name of Program: REaCH (Rutgers Early College Humanities Program)  
Unit or Department Sponsoring Program: SAS-REaCH  
Website: not specified  
Program Description: Rutgers University has created an entirely new initiative, the Rutgers Early College Humanities Program (REaCH). REaCH is a highly innovative educational enrichment program whose overall mission is to break the cycle of poverty for high school age youth from low-income communities by helping them to both gain access to college and to succeed once there. The program does this by offering them an early college experience, that is, the opportunity while they are still in high school to take a college-level, credit-granting course in a variety of humanities disciplines. All REaCH projects will be offered in partnership with either a school system or a community-based organization (such as a Boys and Girls Club) and will be presented at a facility of the collaborating partner or at one of Rutgers’ campuses or off-campus sites (depending on logistical considerations). Through these community-based partnerships, REaCH courses will be presented in either of three different formats; as 1) a during-school-hours two semester course, or 2) an after-school two semester course or 3) a five week summer course. In each format participants gain first-hand experience of what college is like, studying with college professors, reading college texts, completing college assignments, and acquiring an understanding of the college environment and what will be expected of them there. They have the opportunity to explore some of the great masterpieces, classic texts, topics, themes and historical periods in painting, sculpture, architecture, fiction, drama, poetry, American history and philosophy. This educational experience serves to demystify college for students from underserved communities, excites them about learning, intensifies their desire to continue with their education, builds their confidence that they can handle college, and provides them with a degree of conceptual and cultural preparation that they cannot gain through their regular high school studies. Each REaCH course enrolls approximately 25-30 students. Rutgers grants a certificate of achievement to any student completing a REaCH course and from four to six college credits to students completing it at a high level of academic performance. Students can also earn high school credit for their successful participation in the course. The in-school course can also include a professional development component, where several high school teachers are assigned to attend class sessions, providing them with exposure to the course’s pedagogy and course content, to further their own professional development, thereby building the quality of instruction at each participating school for current and future generations of students.  
Contact Person: Martin Kempner, Director  
Contact Phone: 732-297-9214  
Contact email: mkempner@sas.rutgers.edu  
Populations involved: students 9-12

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4 Rutgers NB (New Brunswick) includes the College Avenue Campus, Busch, Kilmer, and the Cook-Douglass campuses
### Program #: 7 Name of Program: Street Law Pro Bono Project  
**Unit or Department Sponsoring Program:** Camden Law  
**Website:** [http://camlaw.rutgers.edu/site/probono/probono.shtml](http://camlaw.rutgers.edu/site/probono/probono.shtml)  
**Program Description:** Street Law is a program of practical, participatory education about law, democracy and human rights. Trained **Rutgers law students** (3L's, 2L's and second-semester 1L's) go into the community to teach disadvantaged young people about the law in their lives. Street Law students make presentations at **Camden-area high schools, detention centers**, a homeless shelter and community organizations. They deliver lively lesson plans on relevant, thought-provoking law-related topics such as "Should it be a Crime?" and "What Happens in an Arrest?"  
**Contact Person:** Jill Friedman  
**Contact Phone:** 856-225-6263  
**Contact email:** jillfrie@camden.rutgers.edu  
**Populations involved:** high school students; General public  
**Teachers:** not involved  
**Time:** any time  
**Type of Program:** Law, Volunteer; information & advice  
**Location:** RU Camden; local schools; community facilities

### Program #: 8 Name of Program: Financial Literacy Pro Bono Project  
**Unit or Department Sponsoring Program:** Camden Law  
**Website:** [http://camlaw.rutgers.edu/site/probono/probono.shtml](http://camlaw.rutgers.edu/site/probono/probono.shtml)  
**Program Description:** The Financial Literacy Project (FLiP) gives students(1L, 2L and 3L students) who have received training the opportunity to speak to groups of **high school-aged students at schools and in community settings** about the true cost of credit card debt. Established by the Camden County bankruptcy bench and bar, this project seeks to educate teenagers about consumer issues (i.e. budgeting, financial planning, and related topics).  
**Contact Person:** Jill Friedman  
**Contact Phone:** 856-225-6263  
**Contact email:** jillfrie@camden.rutgers.edu  
**Populations involved:** students 9-12  
**Teachers:** not involved  
**Time:** during school  
**Type of Program:** Law, Volunteer; information and advice  
**Location:** RU Camden; local schools; community facilities

### Program #: 9 Name of Program: Summer Scholars High School Program  
**Unit or Department Sponsoring Program:** Office of Summer and Winter Sessions  
**Website:** [http://summersession.rutgers.edu/highschool](http://summersession.rutgers.edu/highschool)  
**Program Description:** High school sophomores or juniors with an above average academic record can prepare for college by taking up to two college level courses in a wide range of fields during the summer.  
**Contact Person:** Jennifer Valera, Student Services Coordinator  
**Contact Phone:** 732-932-7565  
**Contact email:** wsru@dceo.rutgers.edu  
**Populations involved:** Students 10-11  
**Teachers:** not involved  
**Time:** summer  
**Type of Program:** all academic disciplines  
**Location:** Rutgers NB

### Program #: 10 Name of Program: Social Decision Making/Problem Solving  
**Unit or Department Sponsoring Program:** Behavioral Research and Training Institute, University Behavioral Health Care, University of Medicine and Dentistry of New Jersey  
**Website:** [http://www.ubhcisweb.org/sdm/](http://www.ubhcisweb.org/sdm/)  
**Program Description:** The Social Decision Making and Problem Solving Program (SDM) is an evidence-based social and emotional learning program that assists students in acquiring social and decision-making skills and in developing their ability to effectively use those skills in real-life and academic situations. The aim of the program is the prevention of violence, substance abuse, and related problem behavior. It is a primary prevention program, that can include secondary components, and is conceptually rooted in research from public health, child development, clinical psychology, cognitive sciences, and organizational and community psychology. The program provides a framework in which students have the ability to learn, reinforce, and practice applying skills necessary to develop social competence. SDM is intended for use with all students (regular and special education) in kindergarten through
eight grade, regardless of ability level, ethnic group, or socioeconomic level. The program has been successfully implemented in urban, suburban, and rural settings nationwide.

**Contact Person:** Linda Bruene Butler or Erin Bruno  
**Contact Phone:** 732-235-9275  
**Contact email:** spsweb@umdnj.edu  
**Populations involved:** students p-8  
**Teachers:** p-8  
**Time:** any time  
**Type of Program:** Health and Child Development, Professional Development, Research, Information and Advice  
**Location:** Rutgers NB

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**Program #: 11**  
**Name of Program:** Spatial Literacy  
**Unit or Department Sponsoring Program:** Walton Center for Remote Sensing & Spatial Analysis  
**Website:** [http://www.crssa.rutgers.edu/SpatialLiteracy/index.html](http://www.crssa.rutgers.edu/SpatialLiteracy/index.html)  
**Program Description:** The Grant F. Walton Center for Remote Sensing & Spatial Analysis (CRSSA) (www.crssa.rutgers.edu) is spearheading a Spatial Literacy Outreach and Education Initiative whose goal is to enhance the spatial literacy within the K-12 curriculum as well as at the university level; The initial objectives are the design and distribution of web-based education materials to promote spatial literacy at the 5-12 grade levels. Working with the RU C.O.O.L. Classroom team of graduate educators, web designers, graphic artists and classroom teachers ([http://www.coolclassroom.org/home.html](http://www.coolclassroom.org/home.html)), will develop a series of innovative teaching modules that will introduce students to geospatial technology and its applications.  
**Contact Person:** Richard Lathrop  
**Contact email:** lathrop@crssa.rutgers.edu  
**Populations involved:** students 5-12; Rutgers students  
**Teachers:** teachers 5-12  
**Time:** any time  
**Type of Program:** STEM  
**Location:** online

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**Program #: 12**  
**Name of Program:** Project Learn  
**Unit or Department Sponsoring Program:** Institute for Health, health Care Policy and Aging Research  
**Website:** [http://www.ihhcpa.rutgers.edu/projectlearn/](http://www.ihhcpa.rutgers.edu/projectlearn/)  
**Program Description:** In accordance with the national goals of HEALTHY PEOPLE 2010, Project L/EARN targets members of groups that have been traditionally under-represented in health-related graduate programs with the intent of increasing the number of health researchers from those groups. Project L/EARN identifies students from economically disadvantaged backgrounds, first generation college attendees, and those from racial/ethnic minority groups who have an interest in health-related social science fields, and provides them with training, experience and mentoring to make them stronger candidates for admission to graduate programs. Past interns have come from a variety of majors, including psychology, sociology, economics, political science, nursing, public health, pharmacy, biology, statistics, urban studies, and public policy. Project L/EARN is open to students from any U.S. college or university. Project L/EARN is a research training program of the Institute for Health, Health Care Policy and Aging Research at Rutgers University. The summer program is an intensive ten-week internship opportunity for qualified students who would like to obtain research skills and "hands-on" experience in health services research under the guidance of a distinguished faculty mentor. Summer training often leads to involvement in faculty research during the subsequent academic year. Faculty mentors represent a diverse array of disciplines, including health economics, medical sociology, medical anthropology, public health, social work, nursing, and health psychology; all head vigorous research programs. Each intern will be matched with a faculty mentor whose work is most closely aligned with his or her particular interests, skills, and background. The core of the summer program is daily lectures and computer laboratory sessions that provide training in research methods, study design, data management, and statistical analysis (programming in SPSS). Project L/EARN has been designated as one of Rutgers University's Graduate Education Preparation Programs. Interns will be provided with GRE preparation, as well as extensive guidance with respect to applying to graduate school.  
**Contact Person:** Diane Davis  
**Contact Phone:** 732-932-6581  
**Contact email:** plearn-info@ifh.rutgers.edu  
**Populations involved:** college students  
**Teachers:** no  
**Time:** Summer  
**Type of Program:** Health; STEM; Mentoring  
**Location:** Rutgers NB

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**Program #: 13**  
**Name of Program:** Center for Women and Work  
**Unit or Department Sponsoring Program:** School of Management and Labor Relations  
**Website:** [http://www.cww.rutgers.edu](http://www.cww.rutgers.edu)  
**Program Description:** The Center for Women and Work in an innovative leader in research and programs that promote gender equity, a high-skill economy, and reconciliation of work and well-being for all. Our areas of work include education and career development, workforce training and policy, working families, leadership development, and research and evaluation of educational intervention programs.  
**Contact Person:** Teresa M. Boyer, Executive Director  
**Contact Phone:** 732-932-4614  
**Contact email:** cww@rci.rutgers.edu  
**Populations involved:** students 6-12; Rutgers students; General public
Teachers: 6-12 Time: any time Type of Program: Social Science, Research, Professional Development, Information and Advice, business Location: Rutgers NB

Program #: 14 Name of Program: Writers House Teachers College
Unit or Department Sponsoring Program: Writers House, The Department of English
Website: http://wh.rutgers.edu/professionaldevelopment
Program Description: The Rutgers Writers House Teachers College offers seminars designed for English and Writing teachers of college-bound students. Our programs in Expository Writing, and Creative Writing, focus on providing practical application of pedagogical models at work in the University. These courses will help high school teachers prepare students for success in today's college writing classroom. Contact Phone: 732-932-7380
Contact Person: Rhea Ramey, Asst. Director, Writers House Contact email: rhea.ramey@rutgers.edu
Populations involved: no students Teachers: H.S. English teachers Time: Summer
Type of Program: Reading and Writing; Professional Development, workshop Location: Rutgers NB

Program #: 15 Name of Program: Rutgers English Summer AP Institute
Unit or Department Sponsoring Program: Writers House, The Department of English
Website: http://wh.rutgers.edu/professionaldevelopment
Program Description: The English Department at Rutgers University in New Brunswick, NJ, will offer two week-long intensive summer seminars for A.P. English teachers. The course offerings are designed for both beginning and experienced instructors and will enable a diverse group of educators to focus on specific pedagogical issues in the A.P. English classroom. The Rutgers Summer A.P. English Institute has been endorsed by the College Board AP Program. Participants who are NJ teachers will fulfill 50 hours of Professional Development upon completion of their chosen seminar.
Contact Person: Rhea Ramey, Asst. Director, Writers House Contact Phone: 732-932-7380
Contact email: rhea.ramey@rutgers.edu Populations involved: no students
Teachers: H.S. English teachers Time: Summer
Type of Program: Reading and Writing; Professional Development, workshop Location: Rutgers NB

Program #: 16 Name of Program: Rutgers Writing Program
Unit or Department Sponsoring Program:
Website: http://wp.rutgers.edu/index.php
Program Description: The Rutgers Writing Program provides instruction to over 11,000 undergraduate students yearly. The Writing Program also sponsors Professional Development activities for high school teachers. The Rutgers Writing Program can arrange site visits for professional development at a school. These on-site workshops are designed to help high school teachers better prepare their students for college level writing and can be tailored to meet your institutional needs. The workshops introduce teachers to the Writing Program’s innovative writing pedagogy focused on promoting an active learning environment, designing challenging assignments, incorporating more non-fiction texts, and using technology to improve engagement and time-on-task. The workshop includes a training manual, workbook, and supplemental materials. The program staff will work with school personnel to design a program that fits the school’s unique needs.
Contact Person: Kurt Spellmeyer, Director of Writing Program Contact Phone: (732) 932-7570 Contact email: wp@rutgers.edu Populations involved: Teachers, Rutgers students Teachers: High School teachers Time: not specified
Type of Program: Reading and Writing, Professional Development, tutoring Location: Rutgers NB, Local Schools

Program #: 17 Name of Program: Cognitive Development Laboratory
Unit or Department Sponsoring Program: Department of Psychology and Center for Cognitive Science
Website: http://ruccs.rutgers.edu/~aleslie/
Program Description: The Cognitive Development Lab studies the origins of knowledge and ways in which infants and young children learn about the physical and social world. Members of the lab conduct research within the framework of experimental cognitive psychology, showing children puppet shows or reading them stories and then asking them to answer simple questions about the events they saw. We use their responses to help us understand the processing mechanisms that lie at the roots of thought.
Contact Person: Alan Leslie or Deena Skolnick Weisberg
Contact Phone: 732-445-4959 (lab phone) or 732-445-6152 (Dr. Leslie's office) or 732-445-6153 (Dr. Weisberg's office) Contact email: rucdlab@gmail.com or aleslie@ruccs.rutgers.edu or deenasw@ruccs.rutgers.edu
### Program #: 18
**Name of Program:** Music Together  
**Unit or Department Sponsoring Program:** Mason Gross Extension Division  
**Website:** [http://www.masongross.rutgers.edu/extension/prepschool.html#Music](http://www.masongross.rutgers.edu/extension/prepschool.html#Music)  
**Program Description:** Music and movement classes for infants, toddlers, preschoolers, and the adults who love them. Introduce your child to the joy of music in this internationally recognized, research-based program. All children are musical and can learn to sing in tune, keep a beat, and participate with confidence in the music of our culture, provided that their early environment supports such learning. Music together brings families together by providing a rich musical environment in the classroom and by facilitating family participation in spontaneous music activity at home.  
**Contact Person:** Julie Roth, Director of the Mason Gross Extension Division  
**Contact Phone:** 732-932-9360 x512  
**Contact email:** extension@masongross.rutgers.edu  
**Populations involved:** Pre-K-2  
**Teachers:** Not involved  
**Time:** after school, weekends, summer  
**Type of Program:** Music  
**Location:** Rutgers NB

### Program #: 19
**Name of Program:** Private Music Instruction  
**Unit or Department Sponsoring Program:** Mason Gross Extension Division  
**Website:** [http://www.masongross.rutgers.edu/extension/prepschool.html#Music](http://www.masongross.rutgers.edu/extension/prepschool.html#Music)  
**Program Description:** Individual instruction with our faculty of conservatory-trained musicians is available in 30, 45, and 60 minute sessions in voice, piano, violin, viola, cello, string/electric bass, flute, clarinet, oboe, bassoon, saxophone, trumpet, trombone, French horn, baritone, tuba, guitar, drums, and percussion. All instructors are dedicated professional musicians with advanced degrees in music. Lessons are scheduled by arrangement between 2-9pm on weekdays and 8am-5pm on Saturdays. We offer 15-week fall and spring semesters and a flexible 10-week summer semester.  
**Contact Person:** Shana Snyder, Program Coordinator  
**Contact Phone:** 732-932-8618  
**Contact email:** extension@masongross.rutgers.edu  
**Populations involved:** P-16  
**Teachers:** Not involved  
**Time:** After school, weekends, Summer  
**Type of Program:** Music  
**Location:** Rutgers NB

### Program #: 20
**Name of Program:** Rutgers Children’s Choir  
**Unit or Department Sponsoring Program:** Mason Gross Extension Division  
**Website:** [http://www.masongross.rutgers.edu/extension](http://www.masongross.rutgers.edu/extension)  
**Program Description:** The Rutgers Children’s Choir is a treble voice choir dedicated to providing age-appropriate vocal training for children in grades 3-8. Now in its 16th year, the choir provides an opportunity for young singers from central New Jersey to perform choral music with peers who share an interest in singing. There are two choirs within the program. Each is based on the developmental and musical needs of the children. The two choirs will perform separately as well as a combined ensemble in concerts.  
**Contact Person:** Shana Snyder, Program Coordinator  
**Contact Phone:** 732-932-8618  
**Contact email:** extension@masongross.rutgers.edu  
**Populations involved:** students 3-8  
**Teachers:** Not involved  
**Time:** after school  
**Type of Program:** Music  
**Location:** Rutgers NB

### Program #: 21
**Name of Program:** Lily Schrager Program in Creative Dance  
**Unit or Department Sponsoring Program:** Mason Gross Extension Division  
**Website:** [http://www.masongross.rutgers.edu/extension/prepschool.html#Dance](http://www.masongross.rutgers.edu/extension/prepschool.html#Dance)  
**Program Description:** Why should you child dance? Dance engages the whole person through simultaneous moving, thinking, and feeling, thus enhancing your child’s physical, cognitive, and emotional development. Our creative dance program gives children the opportunity to explore their artistic and creative capacities in a supportive, non-competitive, and age-appropriate setting. Creative movement facilitates development of self-confidence, social skills, and motor skills through enriching class experiences with peers. Both boys and girls flourish in creative movement programs  
**Contact Person:** Shana Snyder, Program Coordinator  
**Contact Phone:** 732-932-8618  
**Contact email:** extension@masongross.rutgers.edu  
**Populations involved:** students Pre-K-2  
**Teachers:** Not involved  
**Time:** After school, weekends  
**Type of Program:** Dance  
**Location:** Rutgers NB
<table>
<thead>
<tr>
<th>Program #</th>
<th>Name of Program</th>
<th>Unit or Department Sponsoring Program</th>
<th>Website</th>
<th>Program Description</th>
<th>Contact Person</th>
<th>Contact Phone</th>
<th>Contact email</th>
<th>Populations involved</th>
<th>Teachers</th>
<th>Time</th>
<th>Type of Program</th>
<th>Location</th>
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<tbody>
<tr>
<td>22</td>
<td>Fusion Dance</td>
<td>Mason Gross Extension Division</td>
<td><a href="http://www.masongross.rutgers.edu/extension/prepschool.html#Dance">Link</a></td>
<td>Experience African, Modern, Hip Hop, and Creative Dance in an exciting format. Professional dancer and Mason Gross faculty member, Kimani Fowlin, will guide her classes in creating dances to polyrhythmic music that inspires and invigorates, with live musicians accompanying on various percussion instruments and African drums. Participants will get a complete workout, along with some simple movement combinations. Special focus is given to rhythm and bringing out the individuality of each performer.</td>
<td>Shana Snyder, Program Coordinator</td>
<td>732-932-8618</td>
<td><a href="mailto:extension@masongross.rutgers.edu">extension@masongross.rutgers.edu</a></td>
<td>Students 3-16</td>
<td>Not involved</td>
<td>After school, weekends</td>
<td>Dance</td>
<td>Rutgers NB</td>
</tr>
<tr>
<td>23</td>
<td>Indian Music and Dance</td>
<td>Mason Gross Extension Division</td>
<td><a href="http://www.masongross.rutgers.edu/extension/">Link</a></td>
<td>In September 2009, Mason Gross School of the Arts will begin offering Bharatanatyam, Kathak, Odissi, Folk and Contemporary dance; Carnatic Hindustani, and popular singing; Tabla, Mridangam, Veena, Sitar, Violin, Bansuri, and Harmonium. All group and private lessons will be taught by the best gurus (faculty) imaginable.</td>
<td>Samir Chatterjee</td>
<td>732-932-8618</td>
<td><a href="mailto:Samir@masongross.rutgers.edu">Samir@masongross.rutgers.edu</a></td>
<td>Students P-16</td>
<td>Teachers: Not involved</td>
<td>After school, weekend, summer</td>
<td>Dance</td>
<td>Rutgers NB</td>
</tr>
<tr>
<td>24</td>
<td>Young Artist Program</td>
<td>Mason Gross Extension Division</td>
<td><a href="http://www.masongross.rutgers.edu/extension/">Link</a></td>
<td>This comprehensive program is available to talented students (ages 8-18) enrolled in private instruction through the Mason Gross Preparatory School. Entry into the program is reserved for dedicated students with a desire for advanced and intensive musical training. Students must be nominated by their private lesson instructor or schedule a placement interview with the Director of the Extension Division. Program components include ensemble participation (chamber music or one of our performing ensembles), music theory/musicianship classes, master classes and workshops, recitals, and graded jury examinations.</td>
<td>Shana Snyder, Program Coordinator</td>
<td>732-932-8618</td>
<td><a href="mailto:extension@masongross.rutgers.edu">extension@masongross.rutgers.edu</a></td>
<td>Students 3-16</td>
<td>Teachers: Not involved</td>
<td>After school, weekends</td>
<td>Music</td>
<td>Rutgers NB</td>
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<tr>
<td>25</td>
<td>Rutgers Summer Band and Orchestra Camp</td>
<td>Mason Gross Extension Division</td>
<td><a href="http://www.masongross.rutgers.edu/extension/summer.html">Link</a></td>
<td>Students in grades 8-12 have the opportunity to perform under the batons of renowned conductors and enjoy a week of intense musical training at Mason Gross School of the Arts on Rutgers University’s New Brunswick campus. The distinguished camp faculty consists of Mason Gross college faculty members and leading professional musicians and music educators from the New York/New Jersey area. In addition to daily large ensemble rehearsals, students participate in group lessons, clinics, electives (conducting, improvisation, drum circles, music technology) and sectional rehearsals taught by master artists. Percussionists will also participate in percussion ensemble and world drumming sessions. Evening activities for resident campers include faculty recitals and recreational/social activities. The camp will conclude with student performances in Nicholas Music Center. Students have the option to either commute or live in university housing and are under supervision by camp faculty and counselors during all activities.</td>
<td>Julie Roth, Director of the Extension Division</td>
<td>732-932-9360 x512</td>
<td><a href="mailto:summerscamp@masongross.rutgers.edu">summerscamp@masongross.rutgers.edu</a></td>
<td>Students 6-12</td>
<td>Teachers: Not involved</td>
<td>Summer, Camp, residential</td>
<td>Music</td>
<td>Rutgers NB</td>
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<tr>
<td>26</td>
<td>Financial Education Capacity Building Training for New Jersey Teachers and Youth Educators</td>
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Unit or Department Sponsoring Program: DAFRE (Department of Agricultural, Food, and Resource Economics), SEBS
Website: http://njaes.rutgers.edu/money2000/ and www.njcfe.org
Program Description: Working with the New Jersey Coalition for Financial Education, I provide financial education capacity building training for New Jersey teachers and youth educators at about a half-dozen conferences and stand-alone training sessions annually. Participants are provided with training about subject matter content, available curricula, and innovative/creative financial education methods. Programs serve teachers (educators of students) in grades Pre-K-2 through 9-12.
Contact Person: Barbara O’Neill, Extension Specialist in Financial Resource Management
Contact Phone: 732-932-9155 x250 Contact email: oneill@aesop.rutgers.edu Populations involved: Teachers and youth educators Teachers: Teachers P-12 Time: During school, after school, weekends, summer

Program #: 27 Name of Program: Rutgers Summer Jazz Institute
Unit or Department Sponsoring Program: Mason Gross Extension Division
Website: http://www.masongross.rutgers.edu/extension/summer.html
Program Description: Located on the New Brunswick campus, the Rutgers Summer Jazz Institute is a comprehensive workshop environment for high school and college-age musicians interested in improving their jazz improvisation, small group, and large ensemble skills. This is a unique opportunity to participate in daily listening sessions, master classes, and large ensemble and small group rehearsals with the distinguished jazz faculty of Rutgers University’s Mason Gross School of the Arts. Evening activities for resident campers include faculty recitals and a trip into Manhattan to experience the New York jazz scene first-hand. The camp will conclude with student performances in Nicholas Music Center. Attendees have the option to either commute or live in university housing and are under supervision by camp faculty and counselors during all activities.
Contact Person: Julie Roth, Director of the Extension Division Contact Phone: 732-932-9360 x512 Contact email: summerjazz@masongross.rutgers.edu Populations involved: Students 9-16 Teachers: Not involved Time: Summer, Camp, residential Type of Program: Music Location: Rutgers NB

Program #: 28 Name of Program: Business and Technical Writing Online Mentoring/Tutoring-Volunteering
Unit or Department Sponsoring Program: Business and Technical Writing, Writing Centers, Writing Program
Website: http://wp.rutgers.edu/tutoring.
Program Description: We offer completely online tutoring for courses offered by the Business and Technical division of the Writing Program.
Contact Person: Peter Sorrell, Coordinator Contact Phone: (732)546-4062 Contact email: peterbarklasorrell@email.com Populations involved: Rutgers students Teachers: Not involved Time: Any time
Type of Program: Writing: business; tutoring Location: Online

Program #: 29 Name of Program: Rutgers Kids COOL room
Unit or Department Sponsoring Program: Marine Sciences
Program Description: Web-based tools for K-12 students letting them utilize ocean observatories to explore and understand the ocean
Contact Person: Oscar Schofield Contact Phone: 732-932-6555 Contact email: oscar@marine.rutgers.edu Populations involved: Students P-16 Teachers: Teachers P-12 Time: Any time
Type of Program: STEM, Research Location: Online

Program #: 30 Name of Program: Teachers at the Louvre
Unit or Department Sponsoring Program: SAS French
Website: http://www.french.rutgers.edu/index.php?option=com_content&task=blogcategory&id=58&Itemid=146
Program Description: A TWO-WEEK PROGRAM IN PARIS OPEN TO FRENCH K-12 TEACHERS - July 15-28, 2009 / In 2004, Rutgers University became the first American educational partner of France’s most prestigious museum, the Louvre. As a result of this collaboration, we are pleased to offer a two-week program featuring a 3-credit Master’s course. Exclusive and affordable, “Teachers at the Louvre” is an exceptional opportunity for teachers of French to earn credit while exploring the riches of the Louvre and of France’s capital, developing curricular materials for teaching art and culture, and exercising their French skills. / No prior knowledge of art history is required.
Contact Person: Prof. Carole Allamand, French UGD Contact Phone: 732-932-9223 / 609-638-6683 H
Program #: 31 Name of Program: Rutgers – Camden Young Educated Scholars (YES) Institute
Unit or Department Sponsoring Program: Rutgers-Camden Center for Strategic Urban Community Leadership
Website: http://www.tutoring.camden.rutgers.edu
Program Description: YES Institute is a University-based approved Supplemental Education Service provider in New Jersey specializing in tutoring and instructional support to students. Our approach capitalizes on constant cutting-edge research in child development and learning theory, as well as over twenty years of progressive experience in curriculum and instruction at the K-12 level specifically in urban communities. The program combines rigorous skill development in math and language arts with ongoing practice, engaging project-based learning opportunities, and interactive easy access web assistance. The grouping of these four essential elements makes our program unique, relevant, and most importantly, fun.
Contact Person: Wanda Garcia, Associate Director or Jade Edwards, Coordinator Contact Phone: 856-225-6903 (Garcia) or 856-225-2871 (Edwards) Contact email: wandag@camden.rutgers.edu or jadee@camden.rutgers.edu
Populations involved: Students P-12 Teachers: Not involved Time: Academic year during school
Type of Program: Reading and writing, STEM, Social Science Location: Rutgers Camden, local school

Program #: 32 Name of Program: MathNext
Unit or Department Sponsoring Program: Department of Urban Education
Website: http://www.mathNext.org
Program Description: MATHNext is a professional development project which partners Rutgers University, The NJ Chamber of Commerce and the Department of Education with middle school math teachers and supervisors in 31 districts throughout NJ using both in-person and webinar based activities. The purpose of the project is to help the teachers and supervisors increase their ability to foster the development of complex mathematical ideas in middle grade students. The project supports both research and development in areas relating to mathematical knowledge, affect and cognition.
Contact Person: Roberta Y. Schorr Contact Phone: 973-353-3525 Contact email: schorr@rci.rutgers.edu
Populations involved: Students 6-8 Teachers: Teachers 6-8 Time: School day, after school Type of Program: STEM, Research, Professional Development Location: Rutgers Newark, local schools, online

Program #: 33 Name of Program: Rutgers University Project on Economics and Children
Unit or Department Sponsoring Program: School of Arts and Sciences
Website: http://econkids.rutgers.edu
Program Description: This project provides teachers, parents, and volunteers with ideas for using children’s literature to introduce economics to children. We review new books from leading publishers and makes selections for "Book of the Month" and "Top Five" categories. Unlike many of the existing websites on economics education, the EconKids website focuses on younger students in elementary school. Its user-friendly design can help to generate quick teaching ideas that are based on current research in economics and education.
Contact Person: Yana van der Meulen Rodgers Contact Phone: 732-932-9331 Contact email: yrodders@rci.rutgers.edu
Populations involved: Students P-8 Teachers: Not involved Time: Any time Type of Program: Reading and writing, social science Location: Online

Program #: 35 Name of Program: Rutgers University - Lord Stirling Community French Club
Unit or Department Sponsoring Program: French Department and CESEP program
Website: related courses appear on French Department Website
Program Description: In the Fall of 2007, next Fall and on an alternate-year basis since 1993, students in one of my courses, French: Culture and Community Class, have taught beginning French language twice a week to children at various grade levels at Lord Stirling Community School in New Brunswick, New Jersey. During many years, this has occurred within regular school hours, most recently within the context of the Afterschool Program. This French Department program, developed in the general context of the University’s CASE/CESEP initiative is maintained on alternate years by students taking another course taught in the French Department by Professor Renée Larrier, which focuses on African or Caribbean Francophone Literature and Culture. Both our courses expose children from ages 6 to 10 to various aspects of French and Francophone culture by engaging them each week in art, music, dance, literature, history, geography, science, sports, and cooking lessons, and the performance of puppet theater, as well as in learning the French language.
Program #: 36 Name of Program: Rutgers LEAP High School Preparation Program  
Unit or Department Sponsoring Program: Rutgers-Camden Center for Strategic Urban Community Leadership  
Website: http://www.camden.rutgers.edu/Camden/CFSUCL/  
Program Description: Through a grant from the AT&T Aspire High School Success Program, the Center for Strategic Urban Community Leadership sponsors the Rutgers/LEAP High School Preparation Program, which targets the academic development of LEAP students beginning in the 8th grade through the 10th grade. The program focuses on five elements: (1) Academic Interventions; (2) Teacher Development; (3) Emotional/Developmental Support; (4) Character/Leadership Development; and, (5) Family Support. The combination of these elements offered in a targeted way results in increased outcomes for students as evidenced by their High School graduation rates; on-time grade promotion; completion of required courses for graduation; better attendance; and reduced behavioral and disciplinary problems. 300 students will be served over the four year span of the grant.

Contact Person: Wanda Garcia, Associate Director or Jade Edwards, Coordinator  
Contact Phone: 856-225-6903 (Garcia) or 856-225-2871 (Edwards)  
Contact email: wandag@camden.rutgers.edu or jadee@camden.rutgers.edu  
Populations involved: Students (8-10), teachers, parents  
Teachers: Not involved  
Time: Academic year  
Type of Program: Professional development, mentoring  
Location: Rutgers Camden, local school

Program #: 37 Name of Program: SPARK (Summer Program at Rutgers for Kids)  
Unit or Department Sponsoring Program: Division of Continuing Education  
Website: http://spark.rutgers.edu  
Program Description: SPARK gives students in grades five through nine the opportunity to explore and learn in an exciting, diverse and academically stimulating atmosphere. Students will get a taste of what college life has to offer; from debating current affairs or philosophies in a seminar to getting fit in a yoga course. And let’s not forget touring New Jersey, Pennsylvania or seeing the sights of the Big Apple! Students will be able to select from a wide range of academic courses inspiring ingenuity and innovation. They will discover and explore new perspectives, engage in active and intellectual arenas, seeing everything through different eyes. These courses are not your average middle or high school classes. There are no tests, quizzes or homework! You don’t read about it, you experience it. Your only two requirements are to learn and have fun doing it!

Contact Person: Rosa Salgado-Rodriguez or Kenia Montijo  
Contact Phone: 732.932.6998 x 601 or 602  
Contact email: rosars@rci.rutgers.edu or kmontijo@rci.rutgers.edu  
Populations involved: Students 5-9  
Teachers: Not involved  
Time: Summer  
Type of Program: Reading and writing, STEM, Social science, Camp  
Location: Rutgers NB

Program #: 38 Name of Program: Get Moving Get Healthy New Jersey  
Unit or Department Sponsoring Program: Family and Community Health Sciences  
Website: http://www.getmovinggethealthynj.rutgers.edu  
Program Description: This mission of Get Moving Get Healthy NJ is to improve the health of New Jersey youth, individuals, families and communities by teaching them how to make healthy eating and physical activity a part of their daily lives.

Contact Person: Dr. Kathleen T. Morgan  
Contact Phone: 732-932-5000 x604  
Contact email: Morgan@njaes.rutgers.edu  
Populations involved: General public  
Teachers: Not involved  
Time: Any time  
Type of Program: Health and human development  
Location: Online

Program #: 39 Name of Program: Jumpstart at Rutgers-Camden  
Unit or Department Sponsoring Program: Rutgers-Camden Center for Strategic Urban Community Leadership  
Website: http://cfsucl.camden.rutgers.edu/jumpstart.html  
Program Description: In August 2008 under the leadership of the Center for Strategic Urban Community Leadership, Rutgers-Camden became the first site in New Jersey to launch a Jumpstart program currently serving the first cohort of 36 pre-school age children in the City of Camden. Founded in 1993 at Yale University, Jumpstart is a national movement aimed at enhancing literacy and reading skills of low-income children, while also providing a vehicle to engage college students in the process of improving academic achievement of all children. Jumpstart’s
focus is very simple - empower young children with needed skills so that we can get closer to the day when every child in America enters school prepared to succeed. Jumpstart Corps Members work to deliver quality sessions to preschool students. Through their service students receive over 60 hours of high quality training in early childhood education and community service as well as participate in variety of service events targeted towards children, families and members of the city community.

**Contact Person:** Tatiana Poladko Alleyne  
**Contact Phone:** 856 225 6906  
**Contact email:** poladko@camden.rutgers.edu  
**Populations involved:** Pre-K students, Rutgers mentors  
**Teachers:** Not involved  
**Time:** School day  
**Type of Program:** Reading and writing, mentoring  
**Location:** Rutgers Camden, local school

**Program #: 40**  
**Name of Program:** Douglass Science Institute  
**Unit or Department Sponsoring Program:** Douglass Project for Rutgers Women in Math, Science, and Engineering  
**Website:** [http://www.rci.rutgers.edu/~dougproj/](http://www.rci.rutgers.edu/~dougproj/)  
**Program Description:** A summer residential program in hands-on science for 9th through 12th grade girls. Students apply during their eighth grade year and participate the summers prior to 9th through 12th grade. Each year builds on the previous year providing a comprehensive program of experiential learning and community support.  
**Contact Person:** Regina Riccioni  
**Contact Phone:** 732-932-9197 x10  
**Contact email:** dougproj@echo.rutgers.edu  
**Populations involved:** Students 9-12  
**Teachers:** Not involved  
**Time:** Summer  
**Type of Program:** STEM, residential  
**Location:** Rutgers NB

**Program #: 41**  
**Name of Program:** Career Exploration Day  
**Unit or Department Sponsoring Program:** Douglass Project for Rutgers Women in Math, Science, and Engineering  
**Website:** [http://www.rci.rutgers.edu/~dougproj/](http://www.rci.rutgers.edu/~dougproj/)  
**Program Description:** A one-day annual event bringing together 11th and 12th grade New Jersey girls and professional women from diverse science, math, engineering, and technology fields.  
**Contact Person:** not specified  
**Contact Phone:** 732-932-9197 x10  
**Contact email:** dougproj@echo.rutgers.edu  
**Populations involved:** Students 11-12  
**Teachers:** Not involved  
**Time:** Weekend  
**Type of Program:** STEM, mentoring, One day event  
**Location:** Rutgers NB

**Program #: 42**  
**Name of Program:** Waksman Students Scholars Program (WSSP)  
**Unit or Department Sponsoring Program:** Waksman Institute  
**Website:** [http://morgan.rutgers.edu](http://morgan.rutgers.edu)  
**Program Description:** The Waksman Student Scholars Program is designed help high school students learn modern molecular genetics by having them engage in genuine scientific research projects. It is a two-part program aimed at both teachers and students.  
**The Summer Institute:** A teacher and two students from a maximum of 20 high schools commute to the Waksman Institute at Rutgers University in Piscataway, NJ daily for a month in July. There they learn about a research project in molecular biology. The projects change from year to year. Both the background material and the laboratory skills necessary to carry out the project are presented.  
**The Academic Year:** Teachers and students return to their classrooms in September and begin working on the research project. Additional students are recruited. Some students earn Rutgers University credit by participating in a formal course. Some schools offer a research course for high school credit; others offer the research as an after-school activity. The students return to Rutgers for six meetings during the academic year. At the end of the year, in June, a forum is held where students present the results of their studies at a poster session.  
**Contact Person:** Sue Coletta  
**Contact Phone:** 732-445-2038  
**Contact email:** coletta@waksman.rutgers.edu  
**Populations involved:** High school students  
**Teachers:** High school biology teachers  
**Time:** School day, after school, summer  
**Type of Program:** STEM, Research  
**Location:** Rutgers NB, local schools

**Program #: 43**  
**Name of Program:** New Horizons Swimming  
**Unit or Department Sponsoring Program:** Rutgers Aquatics  
**Website:** [http://www.recreation.rutgers.edu/newhorizons](http://www.recreation.rutgers.edu/newhorizons)  
**Program Description:** Swimming Instruction for children 3-12 years.  
**Contact Person:** Erin Winterbottom  
**Contact Phone:** 732-932-3623  
**Contact email:** newhorizons@rutgers.edu  
**Populations involved:** Students P-7  
**Teachers:** Not involved  
**Time:** School year, after school, weekends, Summer  
**Type of Program:** Sports  
**Location:** Rutgers NB
Program #: 44  Name of Program: ESTEEMS II (State funded Math Science Partnership)  
Unit or Department Sponsoring Program: CMSCE (NJSSI)  
Website: http://njssi.rutgers.edu  
Program Description: Math Science Partnership that includes Rutgers University, Middlesex County College, 10 public school districts and 5 non-public schools. The program provides in-depth professional development for elementary teachers (grades 3-5). Teachers participate in a two-week Institute to increase content knowledge and enhance instructional strategies. After the summer component teachers participate in follow-up professional development and receive on-site mentoring in their school districts. The program has a strong evaluation component that assesses teacher and student growth in the target mathematics and science content.  
Contact Person: Hector Lopez  
Contact Phone: 732-445-2811  
Contact email: hlopez1@rutgers.edu  
Populations involved: Teachers  
Teachers: Teachers 3-5  
Time: School day, summer  
Type of Program: STEM, Professional development, workshop  
Location: Rutgers NB, local schools  

Program #: 45  Name of Program: World Languages Institute  
Unit or Department Sponsoring Program: Rutgers Language Institute  
Website: http://wli.rutgers.edu  
Program Description: The award-winning World Languages Institute, located on the Rutgers-New Brunswick campus, provides K-12 World Language teachers with a graduate-level core program in pedagogy, taught in English and reflecting the New Jersey Core Curriculum Content Standards and the National Standards for Foreign Language Teaching. Additional graduate offerings in Chinese, French, German, Italian and Spanish cover topics such as civilization, culture, grammar, linguistics, and literature. Notable Institute features include: two courses, Methods of Foreign Language Teaching (K-12) and Methods of Spanish Language Teaching (K-12), that are approved by the state for certification; the opportunity to enroll in a Master of Arts for Teachers (MAT) degree program, which may be completed in two to three summers and includes enriching and enjoyable summer travel and study abroad experiences; an evening/weekend program of Interpreting and Computer-Assisted Translation courses; summer and academic year workshops on current topics of interest to K-12 World Language teachers; credits acquired through the Institute, a New Jersey Professional Development Provider, that are applicable to the New Jersey 100-Hour Professional Development requirement or may be accepted for state certification.  
Contact Person: Carolyn Burger or Marion Yudow  
Contact Phone: 732-932-7373  
Contact email: burger@langlab.rutgers.edu or yudow@langlab.rutgers.edu  
Populations involved: Teachers  
Teachers: K-12 teachers  
Time: Summer  
Type of Program: World languages, Professional Development  
Location: Rutgers NB  

Program #: 46  Name of Program: Rutgers Summer Acting Conservatory for High School Students  
Unit or Department Sponsoring Program: Mason Gross School of the Arts - Theater dept., Mason Gross School of the Arts - Theater dept  
Website: http://www.masongross.rutgers.edu/theater/thea_programs.html, http://www.masongross.rutgers.edu/extension/summer.html  
Program Description: RSAC is a four-week program designed to allow high school students the opportunity to experience intensive, professional actor training taught be accomplished professionals within the context of a college environment. The rigorous aspects of actor training include daily classes in Acting, Movement and Voice/Speech. In addition, students participate in Master Classes, special seminars and other activities. A specialized track for Musical Theater training is also available. Talented high school students are invited to apply to this highly competitive, four-week conservatory acting program. Daily training includes classes in acting, movement, and voice/speech. Students also participate in master classes, directing, singing, intensive workshops, special seminars, and classes in theater history, theater appreciation, and stage craft. All classes are taught by working theater professionals. Other activities include weekly trips into New York City for major productions, followed by discussion and analysis. Emphasis is placed on developing fundamental acting skills and truthful on-stage behavior. Students interested in musicals may apply to the Musical Theater track to study our celebrated acting technique with equal focus on singing and dancing, taught by experienced Broadway professionals. The conservatory faculty is dedicated to providing students with a safe, challenging, high-quality learning environment where each student will grow and develop as a young theater artist. Students will reside in college dormitories within walking distance of their classes. Meals are provided by the college cafeterias. College counselors reside in the dormitories to oversee, support, and ensure the safety of students. No more than 36 high school students from across the country are accepted.
Program #: 47 Name of Program: Douglass Psychology Child Study Center
Unit or Department Sponsoring Program: Psychology Department
Website: http://douglasschildcare.rutgers.edu

Program Description: The Douglass Psychology Child Study Center is a full-day, on-campus, University childcare center caring for children ages 2-5 years old. The Center is open from 7:30am until 6pm and is located in Davison Hall on the Cook/Douglass Campus and operates year-round. Monthly tuition is for full-time enrollment only and includes care for the full day, 2 daily snacks, and the benefit of a developmentally appropriate curriculum and activities. The Center supports academics and research at the University and is known for its low adult:child ratios, high quality care, and exceptional staff. Enrollment is on a rolling basis and openings are filled as they occur from the Center’s waiting list. Parents are encouraged to apply for enrollment for the program as early as possible as enrollment is limited. Care is also available for school-aged children (ages 6 & up) during the summer months through the Center’s Happy Campers Program. Happy Campers is an on-campus, full-time, full-day recreational summer camp. Registration for summer camp is on a weekly basis and camp tuition includes all 2 snacks & lunch, all field trips and enrichment activities (including daily swimming). All employees of the Douglass Psychology Child Study Center and Happy Campers Program undergo fingerprinting and criminal background checks. Full-time childcare center staff are Rutgers University Employees; part-time staff are Rutgers University Graduate & Undergraduate students.

Contact Person: Jennifer Manuola  
Contact Phone: 732-932-8881  
Contact email: jenne@rci.rutgers.edu

Populations involved: Children 2-5  
Teachers: Not involved  
Time: School day, after school, summer

Type of Program: Childcare  
Location: Rutgers NB

Program #: 48 Name of Program: Law, Justice and Rights in Bolivia
Unit or Department Sponsoring Program: Center for Latin American Studies/Dept of Anthropology
Website: http://www.rulas.rutgers.edu/

Program Description: What are “rights,” and how are they understood and practiced in societies very different from our own? These are some of the themes that this course will explore. Conducted in the city of Cochabamba, Bolivia during the summer, this course will focus on topics related to the practices and realities of the Bolivian justice system, from the perspectives of those who create, manage, and work in the system, and those who are affected by it. Through readings, lectures, discussions, informal meetings, and hands-on participation, students will have the opportunity to learn first-hand about the workings of the Bolivian legal system, the meanings of justice, and the practice of rights by poor, indigenous people living in a Bolivian city. Students will meet and study with justice professionals in Bolivia, to learn about how a foreign judicial system operates, and will meet with human rights advocates to develop a sense of how human rights promotion and defense works “on the ground” in Latin America. In addition to a three-credit course on the topic of Law, Justice and Rights in Bolivia, students will enroll in an additional three-credit practicum service-learning course that will be run simultaneously, offering students a total of six credits for their participation in the program. The practicum will involve instruction in anthropological field research techniques, followed by an independent, field-based student research project. Additionally, students will work side-by-side with residents of one local neighborhood to construct a community center, to be used subsequently as a location for an access-to justice program that this ongoing project plans to create.

Contact Person: Daniel Goldstein  
Contact Phone: 2-0534  
Contact email: dgoldstein@anthropology.rutgers.edu

Populations involved: Rutgers students  
Teachers: Not involved  
Time: Summer

Type of Program: World languages, Social Science, law, residential  
Location: Overseas (Bolivia)

Program #: 49 Name of Program: Rutgers University Future Scholars Program - Camden Campus
Unit or Department Sponsoring Program: on the Camden Campus - Center for Children and Childhood Studies

Program Description: The goal of this initiative is to increase the high school retention, graduation and college enrollment and graduation rates of low-income, underrepresented students from Abbott school districts. This program is a university-wide initiative with efforts on the Camden, Newark, Piscataway and New Brunswick campus. The goals of the program are to provide students with opportunities for educational growth, social development, and personal enrichment in an effort to make sure they acquire the skills necessary to be successful
students. Upon successful completion of this program in the 12th grade, students who apply and gain admittance to Rutgers University will receive four years of free tuition to the university.

The Rutgers – Camden Future Scholars program will provide students from the Camden City public schools and the LEAP University Charter school with opportunities for educational growth, social development, and personal enrichment to prepare them for acceptance into college and success once they enter. Students will be exposed to a wide variety of experiences and opportunities that will enlighten them, challenge them and excite them about their educational and personal futures.

The Camden Campus program launched in the summer of 2008 with 50, rising 8th grade students from the Camden City school district and the LEAP University Charter School. Each year the program will accept an additional 50 students, until each campus has 200 students. During the academic year the Future Scholars students will have the support of tutors and mentors from the Rutgers-Camden community, which will include undergraduate and graduate students. The Future Scholars will also participate in hands-on projects that will strengthen their mathematics and language arts literacy skills and be taught useful study skills for their daily academic coursework.

Throughout the program students will be engaged by a variety of speakers, field trips, and activities to develop their social and personal skills. Students and their families will take part in various cultural and athletic activities offered on all of the Rutgers campuses; while parents, school staff, teachers and administrators will participate in various workshops on how to academically and socially support the Future Scholars.

**Contact Person:** on the Camden Campus – Jerri Pittsley, Program Coordinator and Nyema Watson, Associate Director  
**Program Description:** The Marshall-Brennan Constitutional Literacy Fellowship Program enlists law students in an effort to increase civic literacy and participation in American democracy. Talented second- and third-year law students prepare and teach a course in Constitutional Law to Camden high school students. The aim is to make the Constitution “come alive” for young people in Camden while simultaneously improving law students’ ability to translate and explain complicated legal concepts into lay terms. Marshall-Brennan is a sequential two-semester effort to increase civic literacy and participation in American democracy. Talented second- and third-year law students and graduate students. The Future Scholars will also participate in hands-on projects that will strengthen their mathematics and language arts literacy skills and be taught useful study skills for their daily academic coursework.

Throughout the program students will be engaged by a variety of speakers, field trips, and activities to develop their social and personal skills. Students and their families will take part in various cultural and athletic activities offered on all of the Rutgers campuses; while parents, school staff, teachers and administrators will participate in various workshops on how to academically and socially support the Future Scholars.

**Program #:** 50  
**Name of Program:** Marshall Brennan Fellowship in Constitutional Literacy  
**Unit or Department Sponsoring Program:** Camden Law  
**Website:** [http://www.camlaw.rutgers.edu](http://www.camlaw.rutgers.edu); [http://www-camlaw.rutgers.edu/cgi-bin/course-description.cgi?class=784](http://www-camlaw.rutgers.edu/cgi-bin/course-description.cgi?class=784)  
**Program Description:** The Marshall-Brennan Constitutional Literacy Fellowship Program enlists law students in an effort to increase civic literacy and participation in American democracy. Talented second- and third-year law students prepare and teach a course in Constitutional Law to Camden high school students. The aim is to make the Constitution “come alive” for young people in Camden while simultaneously improving law students’ ability to translate and explain complicated legal concepts into lay terms. Marshall-Brennan is a sequential two-semester course. In the fall semester, meeting weekly in a two-hour seminar, the Fellows will study Constitutional law with a focus on cases and concepts concerning young people and schools. They will draft and execute lesson plans relating to these topics and will discuss pedagogy. Fellows will also research and write a paper on a relevant topic. The fall seminar provides two course credits and qualifies as “writing intensive.” In the spring, teams of two Fellows each will teach Constitutional law courses at high schools in Camden, typically conducting four, 45-minute class sessions each week. Fellows will be entirely responsible for their courses. They will interact with high school teachers, design lesson plans, lead classes and evaluate students. With a continuing focus on issues of law, the spring Seminar sessions will also explore teaching strategies and classroom dynamics and will provide general support for Fellows. The spring course provides three non-course credits and no writing credits.

**Contact Person:** Traci Overton or Jill Friedman  
**Contact Phone:** 856-225-6525 (Overton) or 856-226-6263 (Friedman)  
**Contact email:** overton@camden.rutgers.edu or jillfrie@camden.rutgers.edu  
**Populations involved:** High school students  
**Teachers:** Not involved  
**Time:** School day  
**Location:** Local schools in Camden

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**Program #:** 51  
**Name of Program:** Nontraditional Career Resource Center’s Career Summer Institute (CSI)  
**Unit or Department Sponsoring Program:** Center for Women and Work, School of Management andd Labor Relations  
**Website:** [http://ncrc.rutgers.edu](http://ncrc.rutgers.edu)  
**Program Description:** Week-long summer residential program on the Rutgers Campus in New Brunswick providing experiential learning and career development opportunities in nontraditional careers for approximately 100 diverse 9th through 11th graders in New Jersey. The program includes an academic-year peer education project titled “Step-Up!” where students implement equity and career development concepts learned at the program in their local communities. This program is tuition free.

**Contact Person:** Glenda Gracia-Rivera, Associate Director  
**Contact Phone:** 732-932-0054  
**Contact email:** ggrivera@rci.rutgers.edu  
**Populations involved:** Students 9-11  
**Teachers:** Teachers 9-11 (as mentors selected by students)  
**Time:** Summer with year follow-up
Type of Program: Social Science, mentoring, business, residential  Location: Rutgers NB

Program #: 52  Name of Program: The Academy for Leadership and Equity (TALE)
Unit or Department Sponsoring Program: Center for Women and Work, School of Management and Labor Relations
Website: http://ncrc.rutgers.edu
Program Description: Weekend program offered in Newark, Camden and New Brunswick to 7th and 8th grade New Jersey students to develop leadership and career development skills with a focus on nontraditional careers. Students participate in career assessments and explore in-demand careers. Includes a parent component. This program is tuition free.
Contact Person: Glenda Gracia-Rivera, Associate Director  Contact Phone: 732-932-0054  Contact email: ggrivera@rci.rutgers.edu  Populations involved: Students 7-8, parents  Teachers: Not involved  Time: Weekend  Type of Program: Social science, business, workshop  Location: Rutgers NB

Program #: 53  Name of Program: Rutgers Concert Bureau
Unit or Department Sponsoring Program: Department of Music, Mason Gross School of the Arts
Website: none given
Program Description: Providing musicians for all occasions. We provide musicians for wedding ceremonies, concerts, recitals, background music, etc.
Contact Person: Kevin Viscariello  Contact Phone: 732-932-9067  Contact email: kevinv@rci.rutgers.edu
Populations involved: General public  Teachers: not involved  Time: Any time  Type of Program: Music  Location: Any

Program #: 54  Name of Program: High School Institute for History Teachers
Unit or Department Sponsoring Program: Rutgers Center for Historical Analysis
Website: http://rcha.rutgers.edu/rcha.php?page=High%20School%20Institute&title=%20Rutgers%20Institute%20for%20Historical%20Analysis (or follow the links from http://rcha.rutgers.edu)
Program Description: A variety of workshops for teachers. These change every year. Consult the website for current list of programs.
Contact Person: Prof. Susan Schrepfer; assistant director is Lynn Shanko  Contact Phone: (732) 932-8701
Contact email: rcha@rci.rutgers.edu  Populations involved: Teachers  Teachers: High school history teachers  Time: School day  Type of Program: Social science, workshop  Location: Rutgers NB

Program #: 55  Name of Program: Rutgers Upward Bound
Unit or Department Sponsoring Program: Office of Undergraduate Education - Livingston Campus
Website: http://upwardbound.rutgers.edu
Program Description: Academic and Summer Institute on (Rutgers-New Brunswick Campus) weekends, evening and summer … Rutgers Upward Bound is a pre-college program designed to assist and motivate students to successfully graduate from high school, prepare for college admission, and to successfully complete their baccalaureate degree. Upward Bound is a year round project that offers academic year workshops such as SAT and HSPA preparation, cultural activities, college tours, college planning as well as a host of other programs. Upward Bound also offers a mandatory summer institute on campus to prepare students to prepare students for college life.
Contact Person: James H. Whitney III – Director  Contact Phone: 732-445-3090 x178  Contact email: upwardbound@echo.rutgers.edu
Populations involved: Students 9-10 living in New Brunswick, Plainfield, or Perth Amboy  Teachers: Not involved  Time: Weekend, summer  Type of Program: Mentoring, all subjects, residential  Location: Rutgers NB

Program #: 56  Name of Program: Robert E. McNair Postbaccalaureate Achievement Program
Unit or Department Sponsoring Program: Office of Undergraduate Education - Livingston Campus
Website: http://mcnair.rutgers.edu
Program Description: This program prepares participants for doctoral studies through involvement in research and other scholarly activities. Participants are from disadvantaged backgrounds and have demonstrated strong academic potential. Institutions work closely with participants as they complete their undergraduate requirements. Institutions encourage participants to enroll in graduate programs and then track their progress through to the successful completion of advanced degrees. The goal is to increase the attainment of Ph.D. degrees by students from
underrepresented segments of society. - Academic and Summer Institute on Campus Rutgers-New Brunswick; 3-6 Interdisciplinary Research Credit Give; Rising Sophomores and Juniors

**Contact Person:** Dr. Colleen Georges - Director; James H. Whitney III - Associate Director **Contact Phone:** 732-445-3090 **Contact email:** cgeorges@echo.rutgers.edu **Populations involved:** Rutgers rising sophomores & juniors; Rutgers faculty as mentors **Teachers:** Not involved **Time:** Academic year and summer

**Type of Program:** Mentoring for all university academic subjects, residential **Location:** Rutgers NB

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**Program #:** 57 **Name of Program:** softball camps and clinics for athletes ages 9-18

**Unit or Department Sponsoring Program:**

**Website:** [http://www.scarletknights.com/softball](http://www.scarletknights.com/softball)

**Program Description:** softball camps and clinics for athletes ages 9-18

**Contact Person:** Diana Consolmagno **Contact Phone:** 732-445-4234 **Contact email:** dconsolmagno@scarletknights.com **Populations involved:** Students 3-12 **Teachers:** Not involved

**Time:** Summer **Type of Program:** Sports, Camp **Location:** Rutgers NB

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**Program #:** 58 **Name of Program:** Rutgers Then & Now Historical Tours

**Unit or Department Sponsoring Program:** Campus Information Services

**Website:** [http://ruinfo.rutgers.edu/visitingRU/historic tours/](http://ruinfo.rutgers.edu/visitingRU/historic tours/)

**Program Description:** Specially designed for middle school students is **“Rutgers Then and Now,”** a tour combining the history and traditions of Rutgers with a snapshot of today’s student’s life on the College Avenue Campus. The walking tour, which takes about an hour, explores the origins of Rutgers, its traditions, and architectural points of interest. The area includes some of the University’s oldest buildings.

**Contact Person:** Debbie Kim **Contact Phone:** 732-445-5745 x2619 **Contact email:** cismktg@rci.rutgers.edu

**Populations involved:** Students 6-8 **Teachers:** Not involved **Time:** School days

**Type of Program:** Information **Location:** Rutgers NB

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**Program #:** 59 **Name of Program:** Rutgers Geology Museum

**Unit or Department Sponsoring Program:** Math and Science Learning Center and the Department of Earth and Planetary Sciences

**Website:** [http://geology.rutgers.edu/museum.shtml](http://geology.rutgers.edu/museum.shtml)

**Program Description:** Tours: principles of geology using New Jersey examples presented to groups of all ages

Annual Open House: presentations for the general public by leading researchers about their ongoing work; opportunities to ask questions of researchers and see how science is done; premiers of new exhibits; rock and mineral identification. Friends of the Geology Museum: The Friends of the Geology Museum sponsor two special presentations each year. As a friend, you'll have the opportunity to "visit" fascinating geological sites from the famous Olduvai Gorge in Africa to the moon! You'll also meet with researchers and ask them questions, plus enjoy the company of other avocational scientists.

**Contact Person:** R. William Selden, Collections Manager or Marjorie Eickhorst **Contact Phone:** Selden: 732-932-7243; Eickhorst: 732-445-7963 **Contact email:** rwselden@rci.rutgers.edu eickhors@rci.rutgers.edu

**Populations involved:** General public **Teachers:** Not involved **Time:** School day, weekend, summer

**Type of Program:** STEM, Research, Information **Location:** Rutgers NB

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**Program #:** 60 **Name of Program:** Somerset Community Action Program

**Unit or Department Sponsoring Program:** Bloustein School, Public Policy Program

**Website:** [http://www.somersetcap.com/contact.aspx](http://www.somersetcap.com/contact.aspx)

**Program Description:** Somerset Community Action Program provides educational development and comprehensive early childhood programs promoting the best interest of the child while incorporating the needs and aspirations of the family and the community. The programs and services include Head Start, affordable child care, tax preparation for low income people, adult education services, home energy efficiency preparation, and community organization events and celebrations such as the week of the people.

**Contact Person:** Isaac Dorsey, Executive Director **Contact Phone:** 732-846-8888 **Contact email:** idorsey@somersetcap.org **Populations involved:** Pre-K students, parents **Teachers:** Not involved

**Time:** Child care (7:30-6) others vary **Type of Program:** Health and child development, information and advice **Location:** Somerset Community Action Program
<table>
<thead>
<tr>
<th>Program #: 61</th>
<th>Name of Program: Career Connections</th>
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<tbody>
<tr>
<td>Unit or Department Sponsoring Program: Heldrich Center for Workforce Development; E.J. Bloustein School of Planning and Public Policy</td>
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<tr>
<td>Website: Accessed through the Heldrich Center web site -- <a href="http://www.heldrich.rutgers.edu">http://www.heldrich.rutgers.edu</a></td>
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<tr>
<td>Program Description: Career Connections seeks to provide New Jersey high school students with up to date information on the latest skills sought by employers in key industry sectors, such as health care, pharmaceuticals/life sciences, transportation &amp; logistics, and utilities. The program's outreach efforts are sponsored by Verizon NJ and guided by a Steering Committee with representatives from the state's leading organizations for employers, educators, school counselors, community colleges and vocational-technical high schools. Recent events include a videoconference on emerging &quot;Innovation Economy&quot; skills, and a statewide summit for educators and employers on High Skill-High Wage careers. In 2009, new career education content will be posted online including a series of videos profiling a variety of occupations.</td>
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<tr>
<td>Contact Person: Laurie Harrington  Contact Phone: 732-932-4100 x6322  Contact email: <a href="mailto:lms@rci.rutgers.edu">lms@rci.rutgers.edu</a></td>
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<tr>
<td>Populations involved: Students 9-12  Teachers: Teachers 9-12  Time: School day, after school  Type of Program: Research, information, business, Professional Development, conference, reports</td>
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<tr>
<td>Location: Rutgers NB</td>
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<tr>
<th>Program #: 62</th>
<th>Name of Program: Ready For The Job</th>
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<tbody>
<tr>
<td>Unit or Department Sponsoring Program: Heldrich Center for Workforce Development; E.J. Bloustein School of Planning and Public Policy</td>
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<tr>
<td>Website: <a href="http://www.mfa.newark.rutgers.edu">http://www.mfa.newark.rutgers.edu</a></td>
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<tr>
<td>Program Description: Ready For The Job is a series of reports profiling critical workplace skills and high-demand jobs in New Jersey's key industry sectors. The research has been sponsored by the State Employment &amp; Training Commission, and conducted by the professional research staff at Rutgers’ Heldrich Center for Workforce Development. Since 2003, reports have been completed for &quot;Green Jobs&quot;; Construction; Disaster Management; Life Sciences; Healthcare; Hospitality/Tourism; Information Technology; Manufacturing; Port Newark/Elizabeth; Retail; Transportation; and Utilities/Infrastructure. A pdf of each report can be downloaded from the Heldrich Center web site (<a href="http://www.heldrich.rutgers.edu">www.heldrich.rutgers.edu</a>), and reflects the latest information on industry employment trends. This information has proven useful to New Jersey educators, students, parents, school counselors, state policymakers, workforce development specialists and employers.</td>
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<td>Contact Person: Jennifer Cleary  Contact Phone: 732-932-4100 x6215  Contact email: <a href="mailto:jcleary@rci.rutgers.edu">jcleary@rci.rutgers.edu</a></td>
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<tr>
<td>Populations involved: General public  Teachers: Not involved  Time: Any time</td>
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<tr>
<td>Type of Program: Research, business, Information, reports  Location: Online</td>
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<tr>
<th>Program #: 63</th>
<th>Name of Program: Newark High School Writing Contest</th>
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<tbody>
<tr>
<td>Unit or Department Sponsoring Program: MFA Writing Program</td>
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<tr>
<td>Website: <a href="http://www.mfa.newark.rutgers.edu">http://www.mfa.newark.rutgers.edu</a></td>
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<tr>
<td>Program Description: Newark area high schools and academies are invited to participate in our yearly writing contest. Each school is responsible for soliciting and collecting submissions in three categories (poetry, fiction, and nonfiction) from its students. Faculty from each participating high school will serve as judges for the first stage of evaluation. Only the top five ranked entries in each category are forwarded to the rutgers-Newark judges (which include faculty and graduate students in the MFA writing program). All winners are celebrated and are expected to read winning entries during an evening ceremony on the Rutgers-Newark campus.</td>
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<td>Contact Person: Amy Ortiz, Program Coordinator  Contact Phone: 973-353-1107  Contact email: <a href="mailto:aortiz@andromeda.rutgers.edu">aortiz@andromeda.rutgers.edu</a>  Populations involved: Newark students 9-12  Teachers: Not involved  Time: Not specified  Type of Program: Writing  Location: Rutgers Newark</td>
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<thead>
<tr>
<th>Program #: 64</th>
<th>Name of Program: A Learning Progression for Developing Understandings of Genetics</th>
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<tbody>
<tr>
<td>Unit or Department Sponsoring Program: Graduate School of Education, Department of Teaching and Learning</td>
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<td>Website: none</td>
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| Program Description: Learning progressions are a new way of conceptualizing learning as it occurs across multiple grades and as a consequence of targeted instruction and assessment around a small set of core ideas. These progressions describe the pathways that learners might take in developing successively more sophisticated ways of thinking about key ideas and practices in a discipline. This research project seeks to develop and empirically validate a learning progression for deepening students’ understandings of few foundational ideas in genetics. The proposed progression spans the elementary, middle, and high school grade bands (5th - 10th grade). To instantiate this progression through classroom instruction my team and I developed 6-8 weeks long instructional units that were
taught in 7th and 8th grades. This work will provide insights about the ways in which learning develops over time and how we can foster such learning through coordinated instruction and assessments that are based on a cognitive model of learning in the domain.

**Contact Person:** Ravit Golan Duncan  
**Contact Phone:** 732-932-7496 x8355  
**Contact email:** ravit.duncan@gse.rutgers.edu  
**Populations involved:** Students 6-8  
**Teachers:** Teachers 6-8  
**Time:** School day  
**Type of Program:** STEM, Research  
**Location:** Local school

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Program #: 69 Name of Program: Law, Literature and Society
Unit or Department Sponsoring Program: New Jersey Center for Civic and Law-Related Education
Website: http://civiced.rutgers.edu/LAWLIT/overview.shtml
Program Description: a program that was supported by the NJ State Bar Foundation to help NJ teachers in grades K-12 develop an understanding of the interconnectedness of laws, literature and societal values. Workshops and institutes were offered and resulted in the development of integrated language arts and social studies lessons for grades K-12
Contact Person: Arlene Gardner, Esq., Executive Director Contact Phone: 732-445-3413 Contact email: agardner@njclre.rutgers.edu, civiced@njclre.rutgers.edu
Populations involved: Students K-12 Teachers: Teachers K-12 Time: Not specified Type of Program: Social Science, reading and writing, law, professional development Location: Rutgers NB, local schools, online

Program #: 70 Name of Program: New Jersey Constitution, Courts and Governance
Unit or Department Sponsoring Program: New Jersey Center for Civic and Law-Related Education
Website: http://civiced.rutgers.edu/NJCONSTITUTION/overview.shtml
Program Description: Supported by the NJ State Bar Foundation to help NJ teachers in grades 4-12 develop a comprehensive understanding of the history and functioning of the New Jersey Constitution, the judicial system and state and local government and has resulted in the development of online lessons for grades 3-12.
Contact Person: Arlene Gardner, Esq., Executive Director Contact Phone: 732-445-3413 Contact email: agardner@njclre.rutgers.edu, civiced@njclre.rutgers.edu
Populations involved: Students K-12 Teachers: Teachers K-12 Time: Not specified Type of Program: Social Science, law Location: Rutgers NB, local schools, online

Program #: 71 Name of Program: Prejudice Reduction
Unit or Department Sponsoring Program: New Jersey Center for Civic and Law-Related Education
Website: not specified
Program Description: program for K-12 teachers that was supported by the Fund for New Jersey and has resulted in the development of lessons for teachers.
Contact Person: Arlene Gardner, Esq., Executive Director Contact Phone: 732-445-3413 Contact email: agardner@njclre.rutgers.edu, civiced@njclre.rutgers.edu Populations involved: Students K-12 Teachers: Teachers K-12 Time: Not specified Type of Program: Social Science, law, professional development Location: Rutgers NB, local schools, online

Program #: 72 Name of Program: Project Citizen
Unit or Department Sponsoring Program: New Jersey Center for Civic and Law-Related Education
Website: http://civiced.rutgers.edu/PROJECT_CITIZEN/overview.shtml
Program Description: a process-based program aimed at developing informed, engaged citizens. It is supported by an annual congressional appropriation and the NJ Center for Civic and Law-related Education receives annual funding from the Center for Civic Education to coordinate the program in New Jersey. This includes professional development for teachers and an annual Project Citizen Showcase for middle and high school students at Rutgers.
Contact Person: Arlene Gardner, Esq., Executive Director Contact Phone: 732-445-3413 Contact email: agardner@njclre.rutgers.edu, civiced@njclre.rutgers.edu Populations involved: Students K-12 Teachers: Teachers K-12 Time: Not specified Type of Program: Social Science, law, professional development Location: Rutgers NB, local schools, online

Program #: 73 Name of Program: Street Law
Unit or Department Sponsoring Program: New Jersey Center for Civic and Law-Related Education
Website: http://civiced.rutgers.edu/
Program Description: Program of practical law for high school students, developed by Street Law, Inc. in Washington, D.C. The NJ Center for Civic and Law-Related Education provides in-service workshops for this and other programs at the requests of the schools, as well as connections with corporate counsel offices in New Jersey.
Contact Person: Arlene Gardner, Esq., Executive Director Contact Phone: 732-445-3413 Contact email: agardner@njclre.rutgers.edu, civiced@njclre.rutgers.edu Populations involved: Students 9-12 Teachers: Teachers 9-12 Time: Not specified Type of Program: Social Science, law Location: Rutgers NB, local school, online

Program #: 74 Name of Program: We the People: the Citizen and the Constitution
Unit or Department Sponsoring Program: New Jersey Center for Civic and Law-Related Education
Website: http://civiced.rutgers.edu/WTP/overview.shtml
Sponsorship Funding: Annual funding from Congress and materials developed by the Center for Civic Education in Calabasas, CA; the New Jersey Center for Civic and Law-Related Education coordinates the program for New Jersey, including annual workshops and summer institutes for teachers as well as annual statewide competitions for middle and high school students.
Contact Person: Arlene Gardner, Esq., Executive Director
Contact Phone: 732-445-3413
Contact email: agardner@njclre.rutgers.edu
devoted by the Center for Civic Education in Calabasas, CA, the NJ Center for Civic and Law-Related Education coordinates the program for New Jersey, including annual workshops and summer institutes for teachers as well as annual statewide competitions for middle and high school students.

Program #: 75 Name of Program: Citizen Science
Unit or Department Sponsoring Program: Program in Science Learning
Website: http://sciencelearning.rutgers.edu/citizenscience.htm
Program Description: For general citizens interested in doing scientific research and data collection
Contact Person: Rebecca Jordan
Contact Phone: 732-932-9164
Contact email: Jordan@aesop.rutgers.edu
Populations involved: General public
Teachers: Teachers P-16
Type of Program: STEM, Research
Location: Rutgers NB, local schools

Program #: 76 Name of Program: Invasive plant monitoring project
Unit or Department Sponsoring Program: Program in Science Learning
Website: http://trails.rutgers.edu
Program Description: Data collection and invasive plant identification
Contact Person: Rebecca Jordan
Contact Phone: 732-932-9164
Contact email: Jordan@aesop.rutgers.edu
Populations involved: General public
Teachers: Teachers P-16
Type of Program: STEM, Research, Professional development
Location: Rutgers NB, community facility, online

Program #: 77 Name of Program: Certificate program in Professional Youth Work Outreach
Unit or Department Sponsoring Program: Program in Science Learning
Website: http://sciencelearning.rutgers.edu/youthwork.htm
Program Description: The certificate program is designed to promote the study of challenges facing society in the areas of agriculture and food systems;
Contact Person: Terrance Reagan
Contact Phone: 732-932-9164
Contact email: reagan@rci.rutgers.edu
Populations involved: Rutgers students
Teachers: Not involved
Time: Academic year
Type of Program: STEM
Location: Rutgers, NB

Program #: 78 Name of Program: Science learning Teacher Professional Development (Grade K-12)
Unit or Department Sponsoring Program: Program in Science Learning
Website: http://sciencelearning.rutgers.edu/outreach.php
Program Description: Professional development opportunities for teachers in grades K through 12
Contact Person: Terrance Reagan
Contact Phone: 732-932-9164
Contact email: reagan@rci.rutgers.edu
Populations involved: Teachers
Teachers: Teachers K-12
Time: Not specified
Type of Program: STEM
Location: Rutgers NB

Program #: 79 Name of Program: Summer Institute in Science Learning
Unit or Department Sponsoring Program: Program in Science Learning
Website: http://sciencelearning.rutgers.edu/outreach.php
Program Description: A summer institute that brings together university scientists and area elementary, middle, and high school teachers around a central focus (e.g., Food systems or Ecosystems)
Contact Person: Terrance Reagan
Contact Phone: 732-932-9164
Contact email: reagan@rci.rutgers.edu
Populations involved: Teachers
Teachers: Teachers K-12
Time: Summer
Type of Program: STEM
Location: Rutgers NB

Program #: 80 Name of Program: Teachers as Scholars
Unit or Department Sponsoring Program: Program in Science Learning
Program #: 81 Name of Program: Program in American Language Studies - English as a Second Language
Unit or Department Sponsoring Program: Program in American Language Studies
Website: http://pals.newark.rutgers.edu/
Program Description: PALS offers a wide variety of courses for teaching English as a Second Language to the international community. In the PALS Intensive English as a Second Language Program at Rutgers University in Newark, NJ, students learn English and study skills and acquire abilities to be successful in the United States. The PALS intensive program emphasizes the interrelation of the language and the North American cultures. The ESL curriculum focuses on English language abilities along with the academic preparation needed to study at universities in the United States. PALS also gives service to undergraduate and graduate students who need to improve their English to be mainstreamed into their academic courses. Accent Reduction courses are designed for students, scholars, and professionals who need more practice at the advanced level to polish their spoken English and sound near-native. Evening and Saturday courses are available for working students who want to improve their Communication, Listening, and Conversation abilities in English. The PALS TOEFL Preparation Course is for international students who plan to attend American universities. It offers classes in all parts of the TOEFL exam, including Grammar, Writing, Reading, Vocabulary, Listening, and Speaking, and includes a practice IB-Test in the program’s ESL computer lab. English for Academic Purposes provides six courses aimed to improve a student’s academic level of English as they prepare to enter American universities. Skills studied include Academic Research, Public Speaking, Academic Reading, Academic Vocabulary, Academic Writing, and Academic Listening.
Contact Person: Dr. Minoo Varzegar Contact Phone: 973-353-5013 Contact email: pals@andromeda.rutgers.edu
Populations involved: Rutgers students, general public Teachers: Not involved Time: Evenings, weekends, summer Type of Program: World languages Location: Rutgers Newark

Program #: 82 Name of Program: Rutgers in the Community
Unit or Department Sponsoring Program: Student Involvement
Website: http://www.eden.rutgers.edu/~ritc/
Program Description: To provide underprivileged children in New Brunswick area schools, particularly elementary school student’s grades kindergarten to fifth grade, with a program of apprenticeship to complement classroom learning. The program will mentor students in the after school hours five days a week. Apprenticeships will be offered by Rutgers students and are aimed at providing children with fun activities such as ballroom dancing, pop-art, basketball skills, etc, while incorporating valuable skills such as public speaking and leadership. Rutgers in the Community is a semester long program that will culminate in an end of the semester talent show, where the young children will be able to showcase their newly learned skills.
Contact Phone: 908-596-0936 Contact Person: Sean Lo Contact email: seanlo@eden.rutgers.edu

Program #: 83 Name of Program: Physics Union Mathematics
Unit or Department Sponsoring Program: Graduate School of Education, Department of Learning and Teaching
Website: http://pum.rutgers.edu
Program Description: Helps teachers learn to use new inquiry based curriculum Physics union Mathematics. The program provides a learning continuum and seamless instruction (including assessment) between middle and high school physics. It also provides the real-world context for all students to learn, connect, and apply the mathematics of algebra, geometry, and, in some cases, calculus and an opportunity for teachers to change their practice.
Contact Person: Eugenia Etkina Contact Phone: 732 932 74 96 ext 8339 Contact email: eugenia.etkina@gse.rutgers.edu Populations involved: Teachers Teachers: Teachers 6-12 Time: After school, summer Type of Program: STEM, Research, professional development Location: Rutgers NB

Program #: 84 Name of Program: Rutgers Astrophysics Institute
Unit or Department Sponsoring Program: Graduate School of Education, Department of Learning and Teaching; Department of Physics and Astronomy
Website: http://xray.rutgers.edu/asi/

Program Description: The Rutgers Astrophysics Institute is a year-long program conducted at Rutgers University by a team consisting of university faculty (professors Terry Matilsky and Eugenia Etkina in the Department of Physics and Astronomy, and the Graduate School of Education), high school teachers (Dr. Michael Lawrence, James Flacker, Erin Sienbenmann and James Coleman), and technical assistants. There are three types of participants: high school students (16 to 25 per year, two to five students from the same school), their physics teachers (five to eight per year), and pre-service teachers (five to eight per year). Program is divided into two parts: 1) a four week summer component (Astrophysics Summer Institute) and 2) an academic year follow-up. In the summer, all participants learn how to conduct research in X-ray astrophysics. During the following year, teams of high school students and their teachers actually conduct independent research in the schools (and at home), and meet once a month with each other and with university faculty to discuss their findings (pre-service teachers participate as observers).

Contact Person: Terry Matilsky Contact Phone: 732 445 5500 ext 3876 Contact email: matilsky@physics.rutgers.edu

Populations involved: Students 9-12, teachers Teachers: Teachers 9-12 Time: Academic year, summer
Type of Program: STEM, Research professional development Location: Rutgers NB, local schools

Program #: 85 Name of Program: Rutgers Summer Dance Camp
Unit or Department Sponsoring Program: Mason Gross Extension Division
Website: http://www.masongross.rutgers.edu/extension/summer.html#Dance

Program Description: Young dancers, ages 12-18, may apply for intensive study in contemporary modern dance with renowned faculty from Rutgers University’s Mason Gross School of the Arts. Dancers will take daily classes in contemporary dance, ballet, theater work, improvisation, and repertory. The week includes a field trip into New York City to attend a dance concert and concludes with a public showing of the participants’ work. $1150 (includes tuition, room, board, and activities)

Contact Person: John Evans Contact Phone: 732-932-8497 x15 Contact email: jevans@rci.rutgers.edu
Populations involved: Students 9-12 Teachers: Not involved Time: Summer Type of Program: Dance, Camp, residential Location: Rutgers NB

Program #: 86 Name of Program: Rutgers Dance Conservatory
Unit or Department Sponsoring Program: Mason Gross Extension Division
Website: http://www.masongross.rutgers.edu/extension/summer.html#Dance

Program Description: A two-week conservatory program geared towards students ages 15-20 who plan to pursue a career in dance. The program is designed to prepare the intermediate and advanced dancer to enter a college dance program and help realize his/her goals in the dance world. Students will take daily classes in ballet and modern dance. Additional classes include modern partnering, modern and ballet repertory, jazz, hip hop, and improvisation. The two weeks incorporate a day of master classes by New York area artists and a field trip to the Jersey shore for a day of relaxation. The conservatory will conclude with a showing of material learned and created. $2300 (includes tuition, room, board, and activities)

Contact Person: John Evans Contact Phone: 732-932-8497 x15 Contact email: jevans@rci.rutgers.edu
Populations involved: Students 10-16 Teachers: Not involved Time: Summer Type of Program: Dance, Camp, residential Location: Rutgers NB

Program #: 87 Name of Program: Rutgers Indian Performing Arts Summer Camp
Unit or Department Sponsoring Program: Mason Gross Extension Division
Website: http://www.masongross.rutgers.edu/extension/summer.html#Indian

Program Description: Teaches children about Indian music, dance and culture. Admission to the camp is open to children between ages 8 and 15. Every day from 9 a.m. to 5 p.m. students will participate in yoga classes, vocal training, rhythm sessions, dance and movement classes, exposure to different musical instruments, audio visual sessions, and discussion forums. Our distinguished faculty will fascinate the students while teaching them the significant aspects of Indian music and dance. Early pick-up and late drop-off are available.

Contact Person: Samir Chatterjee Contact Phone: 732-932-8618 Contact email: samir@masongross.rutgers.edu
Populations involved: Students 3-10 Teachers: Not involved Time: Summer, Camp Type of Program: Dance Location: Rutgers NB

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Program #: 88 Name of Program: Working Families Program
Unit or Department Sponsoring Program: Center for Women and Work, School of Management and Labor Relations
Website: http://www.cww.rutgers.edu
Program Description: Funded by the Schumann Fund for New Jersey, the Center for Women and work is conducting research on the management practices and organizational processes in early care and education centers. This study aims to understanding the process of how childcare directors and early childhood educators in three- and four-year old classrooms make decisions about their work and how that decision-making impacts teachers’ job satisfaction and commitment, employee turnover, and classroom quality.
Contact Person: Karen White Contact Phone: 732-932-4614 Contact email: kswhite@rci.rutgers.edu
Populations involved: General public Teachers: Not involved Time: Any Type of Program: Research, business
Location:Online

Program #: 89 Name of Program: US History Saturday Academy Program
Unit or Department Sponsoring Program: Institute on Ethnicity, Culture, and the Modern Experience
Website: http://ethnicity.rutgers.edu
Program Description: Funded by the Gilder Lehrman Institute of American History, the Saturday Academy is a tuition-free program offering students grades 9-12 a variety of topic-based courses in American history. The academy runs for 12 Saturday sessions during the academic year.
Contact Person: Marisa Pierson/Laura Troiano Contact Phone: 973-353-3896/973-353-3905 Contact email: mpierson@newark.rutgers.edu/ ltroiano@rutgers.edu Populations involved: Students 9-12 Teachers: Not involved Time: Weekends Type of Program: Social Science Location:Rutgers Newark

Program #: 90 Name of Program: Teaching American history
Unit or Department Sponsoring Program: Institute on Ethnicity, Culture, and the Modern Experience
Website: http://ethnicity.rutgers.edu
Program Description: A US Dept. of Education’s “Teaching American History” grant awarded to the Newark Public Schools, Rutgers-Newark provides a professional development program offering classes to 75 Newark public school teachers during the academic year on the Newark campus over a 3-year period, taught by Rutgers faculty.
Contact Person: Marisa Pierson/Laura Troiano Contact Phone: 973-353-3896/973-353-3905 Contact email: mpierson@newark.rutgers.edu/ ltroiano@rutgers.edu Populations involved: Teachers Teachers: Teachers 9-12 Time: During school day Type of Program: Social Science, Professional development Location:Rutgers Newark

Program #: 91 Name of Program: Rutgers-Camden School Leaders Academy
Unit or Department Sponsoring Program: Rutgers-Camden Center for Strategic Urban Community Leadership
Website: http://cfsucl.camden.rutgers.edu/Programs/School_Academy.html
Program Description: The CSUCL’s School Leaders Academy (SLA) is a collaborative effort between the CSUCL and the Camden Board of Education to cultivate and strengthen school leadership in Camden. The curriculum for this program focuses on providing seating principals and assistant principals with the tools and environment to reflect on their practices, rethink their approaches and transform their role as a school leader. The program provides them with a number of tools, such as feedback, case studies, simulations that allow them to engage in hands-on activities and real school scenarios. They also have the opportunity to engage in reflection and journaling, as well as working on school based projects. Topics covered in the program include: Interpersonal Effectiveness/Team Development Strategies; Data Driven Instruction and Continuous Improvement; Organizational Effectiveness/Entrepreneurial Leadership; Strategies for School Effectiveness; and, Strategies for Personal/Professional Growth. The program is available to other school districts and can be customized to meet specific leadership and capacity building needs.
Contact Person: Dr. Gloria Bonilla-Santiago or Randy R. Miller, Program Associate Contact Phone: 856-225-6348 (Bonilla-Santiago) or 856-225-2922 (Miller) Contact email: gloriamc@camden.rutgers.edu or rrmiller@camden.rutgers.edu Populations involved: School administrators Teachers: Not involved Time: Not specified Type of Program: Professional development Location:Rutgers Camden

Program #: 92 Name of Program: Rutgers LEAP Pre College Program
Unit or Department Sponsoring Program: Rutgers-Camden Center for Strategic Urban Community Leadership
Website: http://cfsucl.camden.rutgers.edu/Centers/Pre_College.html
Program Description: The Pre-College Office is one of Rutgers/LEAP Centers of Excellence operating at the LEAP Academy University Charter School. The main focus is on providing comprehensive college awareness and readiness programs and services to students from K-12. 780 students receive services every year. The Office delivers several specialized activities in order to maintain its goal of raising the number of students in Camden who successfully pursue a college education. Overall, the Pre-college staff is charged with offering a number of interventions for all students that are integrated in the core instructional and student support program of the school in the areas of academic support, social/emotional development and college readiness.

- Academic Programming, including summer courses, academic placement (AP) and dual degree options with local colleges
- Academic Advisement and Mentoring/Tutoring-Volunteering Services
- College Awareness and Experiential Learning through internships, shadowing and mentoring
- College Workshops (Applications, Essays, Financial Aid)
- SAT Registration / PSAT Administration
- SAT Preparation courses
- Community Service and Cultural Opportunities
- Career preparation (Internships, Résumé building)
- Parent and Staff Support Systems (parent workshops, professional development for project staff)

Contact Person: Wanda Garcia, Associate Director or Adam Greenman, Senior Program Administrator
Contact Phone: Wanda Garcia, Associate Director or Adam Greenman, Senior Program Administrator
Contact email: wandag@camden.rutgers.edu or agreenma@camden.rutgers.edu

Populations involved: Students K-12 Teachers: Not involved Time: School day Type of Program: Tutoring and mentoring Location: Rutgers Camden

Program #: 93 Name of Program: Developing Safe and Civil Schools (DSACS)
Unit or Department Sponsoring Program: Center for Applied Psychology
Website: http://www.teachsecd.com
Program Description: Developing Safe and Civil Schools (DSACS) is designed to build local educational resources for improving Social-Emotional and Character Development (SECD) in participating schools by improving the effective coordination of SECD.

Contact Person: Dr. Maurice Elias Contact Phone: 732-445-7778 Contact email: admin@teachSECD.com
Populations involved: Students P-12 Teachers: Teachers P-12 Time: School day Type of Program: Child development, Professional development Location: Rutgers NB, local schools

Program #: 94 Name of Program: Rutgers University Senior Citizen Audit Program
Unit or Department Sponsoring Program: Office of Community Affairs, Department of University Relations
Website: http://ur.rutgers.edu/community/senior.shtml
Program Description: This special program was created by the Rutgers University Board of Governors to permit retired New Jersey residents, age 62 or older, to attend courses on a space-available, noncredit basis. There are no tuition costs for auditing courses.

Contact Person: Kay Schechter Contact Phone: 732-932-7823 ext. 682 Contact email: kays@ur.rutgers.edu
Populations involved: Senior Citizens Teachers: Not involved Time: Academic year Type of Program: Academic subjects Location: All 3 Rutgers campuses

Program #: 95 Name of Program: Psychological Services Clinic
Unit or Department Sponsoring Program: GSAPP
Website: http://PSYCHOLOGICALSERVICES.RUTGERS.EDU
Program Description: The Psychological Clinic at Rutgers University delivers psychotherapeutic, educational, and career services, provided by advanced doctoral students under the supervision of faculty and clinical supervisors.

Contact Person: DONALD MORGAN, PSY.D., CLINIC DIRECTOR Contact Phone: 732 445 6111 EXT. 22
Contact email: DMORGEN@RUTGERS.EDU Populations involved: General public Teachers: Not involved Time: Any Type of Program: Health (psychological) Location: Rutgers NB

Program #: 96 Name of Program: Project: Natural Setting Therapeutic Management (NSTM)
Unit or Department Sponsoring Program: GSAPP
Website: http://nstm.rutgers.edu/
Program Description: NSTM is a behavioral consultation and training program designed for families and staff who live with and serve people with developmental disabilities and challenging behaviors. The primary objective of the Project is to teach care providers methods to construct and maintain a behaviorally therapeutic environment at home. 

Contact Person: Dr. Russell Kormann Contact Phone: 732-445-3825 Contact email: kormann@rci.rutgers.edu

Populations involved: Direct care staff for persons with developmental disabilities, families Teachers: Not involved Time: flexible Type of Program: Information, Professional development, mentoring Location: Rutgers NB, homes

Program #: 97 Name of Program: The Academy at Rutgers for Girls in Engineering & Technology
Unit or Department Sponsoring Program: School of Engineering, Office of Student Development
Website: http://www.osd.rutgers.edu/target

Program Description: TARGET (The Academy at Rutgers for Girls in Engineering and Technology) is a summer program designed to increase awareness in middle school and high school girls about the career opportunities available in engineering. Through a series of hands-on activities, team challenges, speakers, and mentorships, TARGET aims to familiarize girls with different engineering disciplines and negate negative stereotypes concerning their ability to do well in math and science. Workshop topics span the engineering spectrum from lip balm manufacturing to roller coaster building!

Contact Person: Evelyn Hanna Laffey, Ed.D. Contact Phone: 732-445-2687 Contact email: ehlaffey@rci.rutgers.edu Populations involved: Students 6-12 Teachers: Not involved Time: Weekends, summer

Type of Program: STEM, Information and advice Location: Rutgers NB

Program #: 98 Name of Program: Art Across the Curriculum-Museum Education
Unit or Department Sponsoring Program: Rutgers-Camden Center for the Arts (RCCA)
Website: http://rutgerseamdenarts.org

Program Description: This program provides lively, interactive classes in the Stedman Gallery, followed by art activities designed to reinforce concepts covered in the gallery. The Stedman Gallery exhibitions provide a fertile basis for the study of different cultures, topics, issues, and ideas. This program is designed to instill a greater understanding and appreciation of the visual arts through creative visual analysis exercises, thought-provoking discussions, and hands-on learning. Art Across the Curriculum classes: a) develop visual perception and memory skills, b) explore the language of visual symbols and cultural variations in visual communication, c) expand descriptive vocabulary, d) exercise critical and analytical thinking skills, e) introduce concepts of art heritage and history, media and methods, and f) foster an awareness of the students’ own creative abilities. Teachers receive resource packets to aid in integrating the exhibition concepts into the classroom curriculum. Packets contain some or all of the following: a description of the exhibition; glossary of terms; a poster of selected exhibition artworks/artifacts; suggestions for related follow-up activities and art projects; discussion topics; and suggested additional reading and web sources for further classroom study. This program assists educators in meeting New Jersey Core Curriculum Content Standards 1.1 - 1.5 and the National Arts Education Content Standards #1 through #6 for the Visual Arts. Standards in other curricular areas are also covered, as determined by the content of each exhibition.

Contact Person: Lynda Hitchman Contact Phone: 856-225-6202 Contact email: ljhitch@camden.rutgers.edu Populations involved: Students P-12 Teachers: Not involved Time: School day

Type of Program: Visual arts Location: Rutgers Camden

Program #: 99 Name of Program: D’ARTS-Distance Learning in the Arts
Unit or Department Sponsoring Program: Rutgers-Camden Center for the Arts (RCCA)
Website: http://rutgerseamdenarts.org

Program Description: D’ARTS delivers live, interactive classes directly to K-12 schools through videoconference technology. Like RCCA’s established on-site programs, D’ARTS combines dynamic, responsive teaching with high quality content conveyed in a cross-curricular context. Classes are offered in two general categories: Visual Arts in Diverse Curricular Contexts and Sources for Drama. Programs include: How Much is A Million?-Number Sense and Relative Size; Mathematical Visions-Primary Level; Patterns Matter: Symmetry, Patterns, & Tessellation; Mathematical Visions-Secondary Level; Points of Perspective; Bridge Building 101: The Benjamin Franklin Bridge; Storytelling in Words & Pictures; Visual Language: Language Arts through Visual Art; Storytelling in Words & Movement; Foley Art: The Art, Drama, and Science of Sound; Greek Theatre; Arthur Miller’s The Crucible: Dramatic Fire in a Puritan World; and Shakespeare’s Romeo & Juliet. This program assists educators in meeting New Jersey Core Curriculum Content Standards 1.1 - 1.5 and the National Arts Education Content Standards #1

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through #6 for the Visual Arts. Standards in other curricular areas are also covered, as determined by the content of each program selected.

**Contact Person:** Lynda Hitchman  
**Contact Phone:** 856-225-6202  
**Contact email:** ljhitch@camden.rutgers.edu

**Populations involved:** Students P-12  
**Teachers:** Not involved  
**Time:** School day  
**Type of Program:** STEM, Visual Arts, drama  
**Location:** Online

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**Program #:** 100  
**Name of Program:** Poetry Out Loud

**Unit or Department Sponsoring Program:** Rutgers-Camden Center for the Arts (RCCA)

**Website:** [http://rutgerscamdenarts.org](http://rutgerscamdenarts.org)

**Program Description:** National Recitation Contest for high school students. Created by the National Endowment for the Arts and the Poetry Foundation, Poetry Out Loud is administered in partnership with the State Arts Agencies of all 50 states and the District of Columbia. By encouraging high school students to memorize and perform great poems, Poetry Out Loud invites the dynamic aspects of slam poetry, spoken word, and theater into the English class. This program, which began in 2005, helps students master public speaking skills, build self-confidence, and learn about their literary heritage. Poetry Out Loud begins at the classroom level. Teachers are provided with free multimedia curriculum materials – a poetry anthology, audio guide, teachers’ guide, posters, and a comprehensive website, all aligned to national standards, to augment their regular poetry curriculum. Winners in each classroom advance to the school-wide competition, then to the regional competition, then to the state competition, and ultimately to the National Finals. Rutgers-Camden Center for the Arts is the Region 1 (Southern New Jersey) partner with the NJ State Council on the Arts in New Jersey.

**Contact Person:** Noreen Scott-Garrity  
**Contact Phone:** 856-225-6306  
**Contact email:** ngarrity@camden.rutgers.edu

**Populations involved:** Students 9-12  
**Teachers:** Teachers 9-12  
**Time:** School Day

**Type of Program:** Drama, reading and writing. Professional development  
**Location:** Local schools, online

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**Program #:** 101  
**Name of Program:** Stages of Discovery: Performing Arts Program

**Unit or Department Sponsoring Program:** Rutgers-Camden Center for the Arts (RCCA)

**Website:** [http://rutgerscamdenarts.org](http://rutgerscamdenarts.org)

**Program Description:** The broad range of music, theater, dance, and multi-disciplinary performances in this series have been selected both for their high level of artistic quality and for their ability to engage, educate, and inspire student audiences. They teach about the arts as well as other curricular areas, such as math, science, literature, social studies, languages, and values. Teachers receive a resource packet to aid in integrating the performance concepts into the classroom curriculum. Packets contain: descriptions of the performances; glossaries of related terms; directions for follow-up projects; a reading and website list for both students and teachers; and related discussion topics. These interactive programs are presented in the beautiful 650-seat Walter K. Gordon Theater, which affords each audience member a clear view and intimate experience of the on-stage performance. The Stages of Discovery performances contribute to the fulfillment of: New Jersey Core Curriculum Content Standards 1.1, 1.3, 1.4, 1.5 for the Performing Arts; National Standards for Arts Education ~ Dance #’s 2, 3, 4; Music #’s 3, 6, 7, 8, 9; Theatre #’s 6, 7. Standards in other curricular areas, as determined by the content of each performance, such as math, science, literature, social studies, languages, and life values, among others.

**Contact Person:** Lynda Hitchman  
**Contact Phone:** 856-225-6202  
**Contact email:** ljhitch@camden.rutgers.edu

**Populations involved:** Students P-12  
**Teachers:** Teachers P-12  
**Time:** School day

**Type of Program:** Music, drama, dance  
**Location:** Rutgers Camden

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**Program #:** 102  
**Name of Program:** Camden Arts Education Professional Development: Workshops for Teachers

**Unit or Department Sponsoring Program:** Rutgers-Camden Center for the Arts (RCCA)

**Website:** [http://rutgerscamdenarts.org](http://rutgerscamdenarts.org)

**Program Description:** Professional development programs for k-12 teachers; New Jersey Professional Development Provider ID #2236  
RCCA offers a variety of workshops for teachers to earn professional development hours in visual and performing arts education and in programs that instruct in the integration of visual and performing arts with other core curriculum content. Participating teachers receive a certificate for the hours earned. Workshops meet the following Professional Development Standards:  
1.1 assists educators in acquiring content knowledge within their own disciplines and in applications to other disciplines;  
1.2 enables classroom professionals to help students achieve the New Jersey Core Curriculum Content Standards (CCCS);  
2.6 encourages the establishment of a learning environment that enhances student learning and critical thinking;  
5.1 empowers educators to connect their learning to what they teach and to incorporate new concepts into practice;  
9.6 encourages creativity and innovation;  
12.2 enables educators to identify and use community resources to foster student

**Contact Person:** Noreen Scott-Garrity  
**Phone:** 856-225-6306  
**Contact Email:** ngarrity@camden.rutgers.edu  
**Populations involved:** Teachers  
**Teachers:** Teachers P-12  
**Time:** School day  
**Type of Program:** Visual arts, Professional development  
**Location:** Rutgers Camden, local schools

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**Program #:** 103  
**Name of Program:** Summer Art Soup  
**Unit or Department Sponsoring Program:** Rutgers-Camden Center for the Arts (RCCA)  
**Website:** [http://rutgerscamdenarts.org](http://rutgerscamdenarts.org)  
**Program Description:** Three great arts programs serving Camden City children, teens, and their families are run during the summer months. Summer Art Soup is a combination of programs that keep school age children and teens in touch with visual and performing arts. The Gallery Adventures program is modeled on the school year Art Across the Curriculum Museum Education program. Students visit the gallery and participate in a fun and interactive gallery lesson followed by a hands-on art activity. Storytelling in Words, Pictures, and Movement allows pre-K to 6 year old children to enjoy and participate in engaging, live storytelling and a culminating art activity designed for even the youngest artist. Gallery Adventures and Storytelling are offered to summer camp groups as a field trip activity and learning adventure. The final program, Stage/Film Adventures is a performing arts program. Traditionally, a series of four live performances have been presented in the air conditioned Gordon Theater; however, in 2008 the RCCA presented a series of children’s films from the Newark Black Film Festival. Stage Adventures is open to both camp groups and individual families.

**Contact Person:** Lynda Hitchman  
**Contact Phone:** 856-225-6202  
**Contact Email:** ljhitch@camden.rutgers.edu

**Populations involved:** Students P-12  
**Teachers:** Not involved  
**Time:** Summer  
**Type of Program:** Arts  
**Location:** Rutgers Camden

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**Program #:** 104  
**Name of Program:** Rutgers Science Explorer  
**Unit or Department Sponsoring Program:** Math and Science Learning Center  
**Website:** [http://sciencebus.rutgers.edu/](http://sciencebus.rutgers.edu/)  
**Program Description:** Bring innovative hands-on science explorations to your New Jersey school with a visit from the Rutgers Science Explorer—a state-of-the-art mobile laboratory contained within a 40-foot custom-designed bus. The Rutgers Science Explorer is staffed by Rutgers scientists, who will lead your students in experiments exploring the excitement of the life, earth, and physical sciences.

**Contact Person:** Aly Busse  
**Contact Phone:** 732.445.3442  
**Contact Email:** alybusse@rci.rutgers.edu

**Populations involved:** Students 6-8  
**Teachers:** Teachers 6-8  
**Time:** School day  
**Type of Program:** STEM  
**Location:** Local schools

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**Program #:** 105  
**Name of Program:** Rutgers Reading Program  
**Unit or Department Sponsoring Program:** Continuous Education and Outreach  
**Website:** [http://reading.rutgers.edu](http://reading.rutgers.edu)  
**Program Description:** The Division of Continuous Education and Outreach offers Summer Reading Skills Programs for Children and Adults at Over 40 Locations Throughout New Jersey. For an enjoyable activity with lifelong benefits, we recommend one of our eight different reading skills programs taught by instructors from the Institute of Reading Development.

**Contact Person:** Dr. Richard Novak  
**Contact Phone:** 732-932-0613  
**Contact Email:** rnovak@rutgers.edu

**Populations involved:** Students K-12  
**Teachers:** General population  
**Time:** College students, Summer  
**Type of Program:** Reading  
**Location:** Community facility

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**Program #:** 106  
**Name of Program:** Chinese Crafts and Songs for Kids (Chinese Enrichment Program)  
**Unit or Department Sponsoring Program:** Confucius Institute at Rutgers University (CIRU)  
**Website:** [http://www.ciru.rutgers.edu](http://www.ciru.rutgers.edu)  
**Program Description:** This program is suited for k-3 students. It introduces students to Chinese language and culture through Chinese crafts, songs and rhymes. Students participating in the program enjoy various crafts projects such as making Beijing Opera mask, learning Chinese paper-cut and making Chinese knots. They learn the basic Chinese phrases in singing Chinese songs and playing games with the instructors.

**Contact Person:** Holly Chen Tyson  
**Contact Phone:** 732-932-2651  
**Contact Email:** ciru@rci.rutgers.edu

**Populations involved:** Students K-3  
**Teachers:** Not involved  
**Time:** After school  
**Type of Program:** Visual arts, Music  
**Location:** Rutgers NB, community facility
<table>
<thead>
<tr>
<th>Program #</th>
<th>Name of Program</th>
<th>Unit or Department Sponsoring Program</th>
<th>Website</th>
<th>Program Description</th>
<th>Contact Phone</th>
<th>Contact Email</th>
<th>Populations involved</th>
<th>Type of Program</th>
</tr>
</thead>
<tbody>
<tr>
<td>107</td>
<td>Conversational Chinese (all levels)</td>
<td>Confucius Institute at Rutgers University (CIRU)</td>
<td><a href="http://www.ciru.rutgers.edu">http://www.ciru.rutgers.edu</a></td>
<td>8-week evening courses at different levels run all year round. They are designed for adults who are interested in learning Chinese and are suited for anyone who plans to visit China, exploring the Chinese market, or simply likes to expand one's intellectual horizon by learning a fascinating language as Chinese.</td>
<td>732-932-2651 x7900</td>
<td><a href="mailto:ciru@rci.rutgers.edu">ciru@rci.rutgers.edu</a></td>
<td>Adults, Teachers</td>
<td>World languages</td>
</tr>
<tr>
<td>108</td>
<td>Doing Business in China</td>
<td>Confucius Institute at Rutgers University (CIRU)</td>
<td><a href="http://www.ciru.rutgers.edu">http://www.ciru.rutgers.edu</a></td>
<td>Introduction to current Chinese business practices, trade procedures and terms, and business culture, with attention to China's trade history and its relations to world economy and trade globalization and localization. A must for people who want to acquire the know-how to be successful in doing business with China.</td>
<td>732-932-2651 x7900</td>
<td><a href="mailto:ciru@rci.rutgers.edu">ciru@rci.rutgers.edu</a></td>
<td>Adults, Teachers</td>
<td>Business, Social science</td>
</tr>
<tr>
<td>109</td>
<td>International Conferences on China</td>
<td>Confucius Institute at Rutgers University (CIRU)</td>
<td><a href="http://www.ciru.rutgers.edu">http://www.ciru.rutgers.edu</a></td>
<td>We organize several international conferences related to China or Chinese Studies every year. The conferences are open to everyone.</td>
<td>732-932-2651 x7900</td>
<td><a href="mailto:ciru@rci.rutgers.edu">ciru@rci.rutgers.edu</a></td>
<td>General public, Teachers</td>
<td>Conference</td>
</tr>
<tr>
<td>110</td>
<td>Chinese Performing Arts Show and Workshops</td>
<td>Confucius Institute at Rutgers University (CIRU)</td>
<td><a href="http://www.ciru.rutgers.edu">http://www.ciru.rutgers.edu</a></td>
<td>We organize Chinese performing arts workshops/shows for the university students/faculty/staff as well as for the community.</td>
<td>732-932-2651 x7900</td>
<td><a href="mailto:ciru@rci.rutgers.edu">ciru@rci.rutgers.edu</a></td>
<td>General public, Teachers</td>
<td>Workshop</td>
</tr>
<tr>
<td>111</td>
<td>K-5 training workshop for immersion/bilingual Chinese school teachers</td>
<td>Confucius Institute at Rutgers University (CIRU)</td>
<td><a href="http://www.ciru.rutgers.edu">http://www.ciru.rutgers.edu</a></td>
<td>Summer training programs for any teachers who are interested in gaining knowledge and skills in immersion/bilingual Chinese education.</td>
<td>732-932-2651 x7900</td>
<td><a href="mailto:ciru@rci.rutgers.edu">ciru@rci.rutgers.edu</a></td>
<td>Teachers K-5</td>
<td>World languages, Professional development</td>
</tr>
<tr>
<td>112</td>
<td>CIRU Chinese Bridge Summer Camp in China</td>
<td>Confucius Institute at Rutgers University (CIRU)</td>
<td><a href="http://www.ciru.rutgers.edu">http://www.ciru.rutgers.edu</a></td>
<td>CIRU runs this summer camp every summer (July/August). It is open to high schools students without the Chinese background but interested in learning or improving Chinese. Hanban (the sponsor) covers all the expenses in China including Chinese lessons, trips/sightseeing within China, boarding and accommodation. 22 students from NJ, NY and CT are attending the 2009 CIRU/Hanban summer camp in China.</td>
<td>732-932-2651 x7900</td>
<td><a href="mailto:ciru@rci.rutgers.edu">ciru@rci.rutgers.edu</a></td>
<td>Adults, Teachers</td>
<td>World languages</td>
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<td>Program #</td>
<td>Name of Program</td>
<td>Unit or Department Sponsoring Program</td>
<td>Website</td>
<td>Program Description</td>
<td>Populations involved</td>
<td>Teachers</td>
<td>Time</td>
<td>Type of Program</td>
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<tr>
<td>113</td>
<td>Be. Rutgers Chapter</td>
<td>Student Life</td>
<td><a href="http://www.be4action.org">http://www.be4action.org</a></td>
<td>College community volunteer service that is focused on at risk children in the grades sixth (6th) through ninth (9th). These critical age groups need focused volunteerism from collegiate students that are willing to give back at such a critical development age. Historically, The Plan be. Group provides community events that focus on engagement, participation, and student involvement. Through the involvement of college students, along with parental oversight, each student will demonstrate community awareness. The Plan be. Group will provide professional insight through community leaders, experts, and business professionals, directly to student populations (6th through 9th grades) to show each participant the choices that are available through a series of workshops and events that encourage the development of good critical thought practice habits. Thought habits are an individual choice that each student must personally embrace. The Plan be. Group demonstrates the outline of good thought habits and then encourages the fundamentals behind the action of the students’ choice. Behind the purpose of The Plan be. Group is the strong commitment to educate children through formal and informal educational means. There will be four areas that Rutgers be. Chapter will focus on within the community environment. They are active participation, student feedback, college student volunteerism, and organized preparation. Each Rutgers be. Chapter member will provide assistance with and focus on these areas for preparing community students.</td>
<td>Students 6-8; College student mentors</td>
<td>Not involved</td>
<td>After school</td>
<td>Mentoring, volunteer work</td>
</tr>
<tr>
<td>114</td>
<td>RU Big Buddy</td>
<td>Student Life</td>
<td><a href="http://rubigbuddy.org/">http://rubigbuddy.org/</a></td>
<td>To provide social, moral and academic guidance to those children who want our help through at least a consecutive two semester (one academic year) commitment by Rutgers University students who spend three hours per week with their designated “Little Buddy” at the Lincoln Elementary School in New Brunswick. The goal is for is a mutual bonding between the college students and their “Little Buddies” in order to condition both the elder and the younger to become more well-rounded people.</td>
<td>Students 9-12</td>
<td>Not involved</td>
<td>Summer, Camp</td>
<td>Mentoring, volunteer work</td>
</tr>
<tr>
<td>115</td>
<td>Pilot Me Mentoring/Mentoring/Tutoring-Volunteering Program</td>
<td>Student Life</td>
<td><a href="http://www.getinvolved.rutgers.edu">http://www.getinvolved.rutgers.edu</a></td>
<td>Pilot Me Mentoring/Mentoring/Tutoring-Volunteering Program is a community service oriented organization that actively enriches the youth of the surrounding community of Rutgers University in New Brunswick. What makes Pilot Me unique is that it allows for personal one on one interaction between a college student and a child for two hours each week. Pilot Me Mentoring/Mentoring/Tutoring-Volunteering Program (Pilot Me) utilizes undergraduate students as volunteers and trains each undergraduate to mentor the same child throughout the entire duration of the program during the semester.</td>
<td>Students 6-8; Rutgers student mentors</td>
<td>Not involved</td>
<td>After school</td>
<td>Mentoring, tutoring volunteer work</td>
</tr>
<tr>
<td>116</td>
<td>Reach Out and Read</td>
<td>Student Life</td>
<td><a href="http://eden.rutgers.edu/~ruroar">http://eden.rutgers.edu/~ruroar</a></td>
<td>To promote early literacy throughout the communities of New Brunswick, NJ. To promote early literacy by helping make pediatric literacy part of pediatric practice at the UMDNJ-RWJMS Eric B. Chandler Health Center. ROAR works to build a relationship of service and learning with New Brunswick by promoting the</td>
<td>Students 9-12</td>
<td>Not involved</td>
<td>After school</td>
<td>Mentoring, volunteer work</td>
</tr>
</tbody>
</table>
importance of early childhood literacy in impoverished communities. We serve the Rutgers University by giving
Rutgers students an opportunity to develop leadership through volunteerism and foster a continued relationship with
the UMDNJ-RWJMS Eric B. Chandler Health Center and the New Brunswick Free Public Library.

Program #: 117 Name of Program: Rutgers Readers
Unit or Department Sponsoring Program: Student Life
Website: http://www.geocities.com/rutgersreaders/
Program Description: The Rutgers Readers seeks to build a literacy campaign in the New Brunswick public
elementary schools. Our goal is to improve literacy in the surrounding community of New Brunswick, and our first
step towards achieving this is by working primarily with children at the Lord Stirling School (K-5).
Contact Person: Student Life Contact Phone: 732-932-6978 Contact email: osi@echo.rutgers.edu
Populations involved: Students K-5; Rutgers mentors Teachers: Not involved Time: School day; after school
Type of Program: Reading, mentoring, volunteer work Location: Community facility, Central Jersey

Program #: 118 Name of Program: Scarlet Day of Service
Unit or Department Sponsoring Program: Student Life & Residence Life
Website: http://www.getinvolved.rutgers.edu
Program Description: Scarlet Day of Service is day dedicated to community service. Students can sign up as
members of student organizations, teams or individuals. Transportation is provided to various off campus sites.
Service work performed can vary and include gardening, painting, park clean up, etc.
Contact Person: Student Life Contact Phone: 732-932-6978 Contact email: osi@echo.rutgers.edu
Populations involved: General public, Rutgers volunteers Teachers: Not involved Time: One day event
Type of Program: Volunteer work, One day event Location: Multiple locations; Central Jersey

Program #: 119 Name of Program: Winter Wishes
Unit or Department Sponsoring Program: Student Life
Website: http://www.getinvolved.rutgers.edu
Program Description: 180 New Brunswick Preschoolers received gifts. Four Preschools Participated: Acelero
Learning Middlesex County, Mt Zion, The Children's Center, The Tiny Tots Spot. $20 gifts were donated by
students, staff, and faculty. 10 contact tables were used to distribute children's wish lists of need and wants. Two
wrapping parties were held - Wednesday December 3 and Thursday December 4 (25 volunteers). Children received
their gifts on Saturday, December 6,2008 from 12-3pm with the help of 40 volunteers.
Contact Person: Student Life Contact Phone: 732-932-6978 Contact email: osi@echo.rutgers.edu
Populations involved: Rutgers volunteers Teachers: Not involved Time: One day event
Type of Program: Volunteer work, One day event Location: Multiple locations; Central Jersey

Program #: 120 Name of Program: Martin Luther King Jr. Day of Service
Unit or Department Sponsoring Program: Student Life & Residence Life
Website: http://www.getinvolved.rutgers.edu
Program Description: MLK Day of Service is day dedicated to community service. Students can sign up as
members of student organizations, teams or individuals. Transportation is provided to various off campus sites.
Service work performed can vary and include gardening, painting, park clean up, etc.
Contact Person: Student Life Contact Phone: 732-932-6978 Contact email: osi@echo.rutgers.edu
Populations involved: Rutgers volunteers Teachers: Not involved Time: One day event
Type of Program: Volunteer work, One day event Location: Central Jersey

Program #: 121 Name of Program: Passaic County 4-H Youth Development Program
Unit or Department Sponsoring Program: Rutgers Cooperative Extension
Website: http://www.nj4h.rutgers.edu/
Program Description: The Rutgers Cooperative Extension 4-H Youth Development program uses a learn-by-doing
approach to enable youth to develop the knowledge, attitudes, and skills they need to become competent, caring, and
contributing citizens of the world. This mission is accomplished by using the knowledge and resources of the land-
grant university system, along with the involvement of caring adults.
Contact Person: DuBois, Jennae  Contact Phone: 973-684-4786  Contact email: jdubois@rice.rutgers.edu

Populations involved: Students K-12  Teachers: Not involved  Time: Not specified

Type of Program: Mentoring  Location: North Jersey

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Program #: 122  Name of Program: New Brunswick Community Interpreter Project
Unit or Department Sponsoring Program: Robert Wood Johnson Medical School / RU Spanish Department
Website: http://rwjms2.umdnj.edu/community_programs/new_brunswick_interpreter_program.htm

Program Description: The New Brunswick Community Interpreter Project (NBCIP) supported by the Office of Community Health, currently provides Spanish medical interpretation and translation services in three area health centers: The Eric B. Chandler Health Center (EBCHC), The High Risk Obstetrics Ambulatory Care Clinic at the Robert Wood Johnson University Hospital, and the Cancer Institute of New Jersey (CINJ). The Interpreter Project represents the unique point in which three distinct communities come together: Rutgers students, Spanish speaking residents of New Brunswick, and doctors, nurses and medical students studying and working in the city. Through internships, federal work study jobs and volunteer opportunities, students have the exciting opportunity to explore the emerging field of medical interpreting while they develop solid job-related skills such as professionalism and enhance their Spanish language skills and knowledge of medicine. Moreover, healthcare providers who partner with NBCIP interns have the opportunity to learn about issues such as cross cultural communication, the Hispanic culture and how to work with a trained interpreter. Founded in 1999, the program’s interns have interpreted more than 75,000 patient-provider encounters, and over 100 vital medical documents and the EBCHC website have been translated into Spanish under the coordinator’s supervision. The NBCIP has conducted basic interpreter training for bilingual staff at the Cancer Institute of New Jersey and for bilingual medical students in the RWJMS Department of Family Medicine. Additionally, for the past three years the NBCIP has participated in the bilingual workshop given by the Department of Family Medicine for third-year medical students before they begin their clerkships. The program is staffed by two program coordinators and 35 student interpreters.

Contact Person: Hank Dallmann  Contact Phone: 732-235-9535  Contact email: h.dallmann@umdnj.edu or dallmann@rci.rutgers.edu

Populations involved: Bilingual (Spanish/English)  Rutgers students, General public

Teachers: Not involved  Time: Any time  Type of Program: Health, volunteer work  Location: Community facility; Central Jersey

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Program #: 123  Name of Program: BizEd
Unit or Department Sponsoring Program: Rutgers School of Business-Camden
Website: http://camden-sbc.rutgers.edu/BizEd/default.htm

Program Description: A unique program introducing high school students to the challenges of a business college education and the opportunities of the business world. This two-week program was developed by faculty of Rutgers University School of Business at Camden and first presented in July 2001. The curriculum introduces high school students to the theory and practice of accounting, finance, management, marketing and technology with an exceptional and interactive learning format. In July 2008, students from high schools in Burlington, Camden, and Gloucester counties met leading area executives, visited local companies, and participated in team building and problem solving activities. The students spent time in a normal classroom environment, took field trips to local businesses, worked in team situations and at the end of the program applied their knowledge in a business case competition presenting their results before a panel of executives. Each member of the winning team received a laptop computer.

Contact Person: Nathan Levinson, Associate Dean, School of Business-Camden
Contact Phone: 856-225-6219  Contact email: nathan.levinson@rutgers.edu  Populations involved: Students 9-12
Teachers: Not involved  Time: Summer  Type of Program: Business  Location: Rutgers Camden, South Jersey

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Program #: 125  Name of Program: Creative Dramatics
Unit or Department Sponsoring Program: Mason Gross
Website: http://www.masongross.rutgers.edu/theater/thea_programs.html

Program Description: Creative Dramatics is a course in the Theatre Dept at MGSA that is designed for with a strong community outreach component. Third and fourth year students are trained in Story Theatre techniques, They, in turn, teach these techniques to 4th and 5th grade students in local elementary schools. The Rutgers students work with the students every week for seven weeks within the regular school year. A story is selected with a performance as the ultimate objective. The MGSA students prepare the elementary students for performance within their own classroom settings. This program stresses creativity, imaginative play and the ability to work together in large groups towards a desired outcome in ways that are really fun.

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Contact Person: Sari Ruskin  Contact Phone: 732-932-9891  Contact email: ruskin@imcs.rutgers.edu
Populations involved: Students 4-5; Rutgers student tutors  Teachers: Not involved  Time: School day
Type of Program: Drama  Location: Local schools, Central Jersey

Program #: 126  Name of Program: SPARC (Science Preparation Alliance of Rutgers and Camden)
Unit or Department Sponsoring Program: Psychology
Website: http://www.camden.rutgers.edu/~sparc/
Program Description: SPARC is a science education initiative that emphasizes the biological, brain, behavioral and cognitive sciences in programs designed for teachers and students in pre-college settings. Currently, SPARC is promoting science fair participation among students in grades 6-12, encouraging them to participate in inquiry-based activities that lead to science fair projects. SPARC achieves this goal by training teachers to help students create projects that focus on addiction and drug use.
Contact Person: Sonia Krutzke (PI: Dr. J. W. "Bill" Whitlow)  Contact Phone: (856) 225-6544  Contact email: sparc@camden.rutgers.edu  Populations involved: Students 6-12; Teachers  Teachers: Teachers 6-12
Time: School day  Type of Program: STEM; Professional development  Location: Rutgers Camden

Program #: 127  Name of Program: From Our Farms
Unit or Department Sponsoring Program: Cooperative Extension/Family & Community Health Sciences
Website: http://gloucester.njaes.rutgers.edu/fchs/fromourfarms.html
Program Description: From Our Farms is a fun-filled project that teaches children and their families about the importance of good nutrition, the value of local agriculture and the role farms play in enriching our communities and the environment. The activities in From Our Farms are designed to be fun! (They're also educational.) They use exploration and adventure to teach children about food, nutrition and the farm. Activities highlight hands-on learning and family literacy projects to reach children. From Our Farms activities also help prepare children for school by emphasizing math, reading, writing and cognitive development. Any way you look at it, From Our Farms is a great way for families, classrooms and groups to spend time together, learn together and explore together.
Contact Person: Luanne Hughes, MS, RD: Rutgers Cooperative Extension of Gloucester County  Contact Phone: 856-307-6450, x2  Contact email: hughes@njaes.rutgers.edu  Populations involved: Students, teachers, families
Teachers: All teachers  Time: School day, after school  Type of Program: STEM, Health, Workshops
Location: Local schools, Community facilities, South Jersey

Program #: 128  Name of Program: Newark Schools Research Collaborative
Unit or Department Sponsoring Program: Chancellor's Office-Newark
Website: not available yet
Program Description: NSRC is a collaboration between Rutgers-Newark and the Newark Public Schools, whose purpose is to establish a large-scale data warehouse on the Newark Public Schools and all charter schools in Newark, and to make available these data to researchers examining educational issues affecting Newark; and to provide independent, objective, rigorous and high-quality research on the NPS and public charter schools in Newark that will be used to assess and improve the academic attainment and achievement of all children in Newark, improve all schools in Newark, and assist the NPS and charter schools to successfully implement their strategic plans;
Contact Person: Alan R. Sadovnik, Paul L. Tractenberg  Contact Phone: 973-353-3532 (Sadovnik), 973-353-5433 (Tractenberg)  Contact email: sadovnik@andromeda.rutgers.edu, tractnbg@andromeda.rutgers.edu
Populations involved: Educational researchers  Teachers: Not involved  Time: Any  Type of Program: Research
Location: Rutgers Newark

Program #: 129  Name of Program: Institute on Education Law and Policy
Unit or Department Sponsoring Program: Chancellor's Office-Newark
Website: http://ielp.rutgers.edu
Program Description: The Institute on Education Law and Policy is New Jersey's premier center for interdisciplinary research and innovative thinking on education policy. Founded in 2000 by Professor Paul Tractenberg of Rutgers Law School-Newark as the capstone to his career in education reform, the Institute's mission is four-fold: (1) to promote education reform and improvement through research, policy analysis and public discussion (2) to mobilize lawyers, scholars and education practitioners to address complex and controversial issues in education law and policy in a comprehensive, in-depth manner (3) to improve public understanding of these issues (4) to serve as a center for learning and innovative thinking about legal and public policy issues relating to education
Contact Person: Alan R. Sadovnik, Paul L. Tractenberg  
Contact Phone: 973-353-3532 (Sadovnik), 973-353-5433 (Tractenberg)  
Contact email: sadovnik@andromeda.rutgers.edu, tractnbg@andromeda.rutgers.edu

Populations involved: Educational researchers  
Teachers: Not involved  
Time: Any  
Type of Program: Research

Location: Rutgers Newark

Program #: 130  
Name of Program: Rutgers Young Scholars program in Discrete Mathematics

Unit or Department Sponsoring Program: Rutgers SAS Department of Mathematics and CMSCE

Website: http://dimacs.rutgers.edu/ysp/

Program Description: The Rutgers Young Scholars Program in Discrete Mathematics is a summer program for mathematically talented high school students. It provides a mathematically rich environment to high school students interested in mathematics, and is designed to encourage them to consider careers in the mathematical sciences. Selected students participate in an intensive four-week residential academic program that provides a challenging introduction to discrete mathematics -- a new and growing area of the mathematical sciences with many applications on the cutting edge of modern research.

Contact Person: Debby Toti  
Contact Phone: 732-445-2825  
Contact email: toti@dimacs.rutgers.edu

Populations involved: Students 9-12  
Teachers: Not involved

Time: Summer  
Type of Program: STEM, residential

Location: Rutgers NB

Program #: 131  
Name of Program: Paul Robeson Library/Camden Public School Media Centers Initiative

Unit or Department Sponsoring Program: Paul Robeson Library, Rutgers University Libraries

Website: http://www.libraries.rutgers.edu/rul/libs/robeson_lib/

Program Description: The Paul Robeson Library faculty offer professional development workshops to the Camden Public Schools Media Specialists, K-12, several times a year. The library also makes available meeting rooms and an electronic classroom for the media specialists to use for their departmental meetings. Camden School media specialists are also eligible for guest borrowing privileges for the library's print collection as well as in-house access to the library's electronic databases.

Contact Person: Dr. Gary Golden, Director Paul Robeson Library; Vibiana Bowman Cvetkovic, Outreach Librarian  
Contact Phone: 856-225-2828 (Golden); 856-225-2832 (Cvetkovic)  
Contact email: ggolden@camden.rutgers.edu, bowman@camden.rutgers.edu

Populations involved: Teachers

Type of Program: Professional development  
Location: Rutgers Camden

Program #: 132  
Name of Program: Rutgers Institute for High School Teachers sponsored by the Center for Historical Analysis, Rutgers University at New Brunswick

Unit or Department Sponsoring Program: Historical Analysis, Rutgers University at New Brunswick

Website: http://rcha.rutgers.edu

Program Description: Day-long workshops focusing on key themes and trends in research and teaching in history and related disciplines to assist middle and secondary school teachers in preparing their courses and incorporating recent research and debates in fields ranging from US and African history to world literature and global history.

Contact Person: Lynn Shanko, Associate Director  
Contact Phone: 732-932-8701  
Contact email: rcha@rci.rutgers.edu

Populations involved: Teachers

Type of Program: Social Science, Workshops, Professional development  
Location: Rutgers NB

Program #: 133  
Name of Program: Electronic New Jersey

Unit or Department Sponsoring Program: Rutgers Library, Department of History, Graduate School of Education, and school districts of Hunterdon Central, Spotswood, East Brunswick, Bridgewater-Raritan, North Hunterdon, North Brunswick, Flemington, Readington, and Freehold

Website: http://www2.scc.rutgers.edu/njh/

Program Description: Electronic New Jersey Project provides primary source learning materials and related instructional activities to increase student and faculty understanding of New Jersey's role in U. S. history

Contact Person: Dr. William R. Fernekes  
Contact Phone: none

Populations involved: Students 6-12  
Teachers: Teachers 6-12  
Time: Any time

Type of Program: Social science, STEM

Location: Online

Program #: 134  
Name of Program: Chemistry Connections

Unit or Department Sponsoring Program: Chemistry & Chemical biology

Website: not specified
Program Description: Hands-on chemistry experiments are presented to local middles schools, 5th through 8th grade. Currently one entire grade in one school per semester. American Chemical Society sponsors these events through grant awards. The program is conceived and organized and presented by the Rutgers Chemistry Society.

Contact Person: John Taylor (Faculty Advisor) Contact Phone: 732-445-0514 Contact email: taylor@rutchem.rutgers.edu

Populations involved: Students 5-8 Teachers: Teachers 5-8 Time: School day Type of Program: STEM Location: Rutgers NB, Local school, Central Jersey

Program #: 135 Name of Program: The Scholars Training and Enrichment Program (STEP)
Unit or Department Sponsoring Program: Rutgers Business School

Website: http://www.business.rutgers.edu/STEP

Program Description: The Scholars Training and Enrichment Program (STEP) assists high school graduates from Newark and other urban areas who will matriculate to the Newark campus of Rutgers Business School (RBS). The purpose of STEP is to enhance these high school graduates' success toward getting an RBS undergraduate degree. The STEP Fellows spend six (6) weeks in this residential program on campus and attend a variety of non-credit pre-enrollment courses during the summer before they start their official undergraduate courses the following September. The students also take field trips to learn about business careers in different industries, and make many new friends who will be classmates in the fall. Founded by Dr. dt ogilvie, RBS Associate Professor, the program is funded by grants from CitiGroup, DiversityInc, PSE&G Foundation, and Tyco International.

Contact Person: Leon Fraser, Program Director Contact Phone: 973-353-5120 Contact email: Rutgers-STEP-Director@business.rutgers.edu

Populations involved: Students 12 Teachers: Not involved Time: Summer Type of Program: Business, residential Location: Rutgers Newark

Program #: 136 Name of Program: Tours of the Institute of Jazz Studies
Unit or Department Sponsoring Program: Institute of Jazz Studies

Website: http://newarkwww.rutgers.edu/IJS/index.html

Program Description: Tours of the Institute and short overview of jazz history

Contact Person: April Grier, Ed Berger Contact Phone: 973-353-5595 Contact email: agrier@andromeda.rutgers.edu or eberger@andromeda.rutgers.edu

Populations involved: General public Teachers: Not involved Time: School day, after school, weekends, summer Type of Program: Music Location: Rutgers Newark

Program #: 137 Name of Program: Research Experience for Undergraduates (NSF funded)
Unit or Department Sponsoring Program: Department of Biology, Camden

Website: No web site, but information on http://marine.rutgers.edu/pinelands/

Program Description: Undergraduate interns work in the NJ Pinelands most summers. Ten week undergraduate internships are offered in the summer months. Some students engage in projects with a Pineland Station mentor for college credit at Rutgers or at their home institution; and others come just for research experience.

Contact Person: John Dighton Contact Phone: 609-894-8849 Contact email: dighton@camden.rutgers.edu

Populations involved: Rutgers students Teachers: Not involved Time: Summer Type of Program: STEM Location: Rutgers Camden, Community facility, South Jersey

Program #: 138 Name of Program: RUN Art
Unit or Department Sponsoring Program: Department of Visual and Performing Arts

Website: http://vpa.newark.rutgers.edu/

Program Description: An art program for high school students operated on Saturday mornings at the Rutgers-Newark, Department of Visual and Performing Arts. Taught by Rutgers professors, regional professional artists, and Rutgers undergraduates, RUN Art provides young people, from Newark and across the state, a first-class visual art education and experience. In addition to the unique and ever evolving approach we have to seeing, making and learning about art, RUN Art also assists students in making the transition to college. Admission to RUN Art is based on the interest and commitment of the student, no portfolio reviews or previous art experience is required.

Contact Person: Nick Kline Contact Phone: 973-353-5600 Contact email: domkline@andromeda.rutgers.edu

Populations involved: Students 9-12 Teachers: Not involved Time: Weekend Type of Program: Visual arts Location: Rutgers Newark

Program #: 140 Name of Program: Cognitive Science goes to school: Preschool Pathways to Science
Unit or Department Sponsoring Program: RuCCS
Website: No website for activities that are relevant to education.

Program Description: All education efforts are based on Cognitive Science research as to what learners know something already as opposed to push-down curricula. The emphasis is on domain-specific knowledge and the "applications" use the idea that domains have interrelated concepts, that the language of science and math gets its meaning from the domain, and that tools of observation, reporting, and discovery serve the domains in questions. There are some general methods that apply to science: one keeps a rolling record - notebooks: work must be dated; evidence comes use of the experimental method, which embeds prediction and checking; scientists report their work.

Contact Person: Professor Rochel Gelman, Co-Director of Cognitive Science and Prof of Psych. Contact Phone: 732 445 6154 Contact email: rgelman@ruccs.rutgers.edu Populations involved: Students P-5, Rutgers ztudent researchers Teachers: Not involved Time: Not specified Type of Program: STEM, Research Location: Rutgers NB, local schools

Program #: 141 Name of Program: Online Career Planning Unit or Department Sponsoring Program: Career Services Website: http://careerservices.rutgers.edu/highschool.shtml

Program Description: Career Services offers a Rutgers Online Career Planning Site for both high school students and college students and beyond. They are interactive sites enabling users to identify their interests, skills, and values and how they relate to college majors and potential careers. You can take a closer look below: http://careerservices.rutgers.edu/highschool.shtml; http://careerservices.rutgers.edu/parents2.shtml. In addition, here are the links for the online sites: http://careerservices.rutgers.edu/PCCPmain.shtml - high school; http://careerservices.rutgers.edu/OCAmain.shtml – college. If you have any follow-up questions or need additional information, please contact the site developer and our website project manager, Barbara Melamed, at bmelamed@echo.rutgers.edu.

Contact Person: Barbara Melamed Contact Phone: 732-932-7285, ext. 14 Contact email: bmelamed@echo.rutgers.edu Populations involved: Students 9-16 Teachers: Not involved Time: Any Type of Program: Mentoring, Information and advice Location: Online

Program #: 142 Name of Program: Rutgers University EcoComplex Unit or Department Sponsoring Program: SEBS/NJAES Website: http://ecocomplex.rutgers.edu

Program Description: Research and Technology Expertise in Renewable Energy, Solid Waste Management, Water Resource Management, Controlled Environment Agriculture, Stormwater Management and Business Development. The EcoComplex is dedicated to educating the environmental leaders of today and tomorrow. Programs focus on the complexities of the environment and how environmental technologies can work to remediate and maintain our precious habitats for future generations. The facilities also include a conference center with a 180 seat auditorium, classrooms, and conference rooms, all with distance-learning capabilities. K-12 Educational Tours and Programs are given on a limited basis and there is a small fee charged for schools.

Contact Person: Lorraine Magee Contact Phone: 609-499-3600 x221 Contact email: limagee@aesop.rutgers.edu Populations involved: General public, K-12 students Teachers: K-12 teachers Time: Not specified Type of Program: STEM, Research, Information and advice Location: Rutgers NB

Program #: 143 Name of Program: Center for International Scholarship in School Libraries Unit or Department Sponsoring Program: Department of Library and Information Science Website: http://cissl.scils.rutgers.edu/

Program Description: The Center for International Scholarship in School Librarianship (CISSL) is the leading international research and scholarly center that examines the dynamics and impacts of teaching and learning in school libraries. CISSL fosters the transformative role of school libraries in 21st century schools, their integral role in the learning fabric of schools, and their role in ongoing school improvement and reform.

Contact Person: Dr. Ross Todd Contact Phone: 732-932-7500 ext 8223 Contact email: rtodd@scils.rutgers.edu Populations involved: School librarians Teachers: Not involved Time: Not specified Type of Program: Reading, STEM, Research Location: Rutgers NB

Program #: 144 Name of Program: Merck-Rutgers Summer Institute in Bioethics Unit or Department Sponsoring Program: Philosophy, Rutgers-Newark Website: http://andromeda.rutgers.edu/~bioethic
Program Description: The Merck-Rutgers Summer Institute in Bioethics is an 8-day residential program in early July for Newark-area high-school students focusing on issues in bioethics (such as ethical issues in nanoscience and nanotechnology, the theme for this year) and providing critical thinking workshops to develop thinking and writing skills. Participants experience campus life and are exposed to career possibilities in medicine, law, scientific research, public policy, government, economics, teaching, and community leadership.

Contact Person: Dr. Jeff Buechner  
Contact Phone: 973-353-5498  
Contact email: buechner@rci.rutgers.edu

Populations involved: Students 9-12  
Teachers: Not involved  
Time: Summer

Type of Program: STEM, Mentoring, residential  
Location: Rutgers Newark

Program #: 145  
Name of Program: CMES high school teachers Arab Heritage Workshop for Teachers at the RCHA

Unit or Department Sponsoring Program: Rutgers Center for Historical Analysis and Rutgers NB SAS History Department

Website: http://rcha.rutgers.edu/rcha.php?page=High%20School%20Schedule

Program Description: We held a second high school teachers workshop at the RCHA more recently, on April 2nd, 2009. 13 teachers came for this workshop on Arab heritage, featuring 5 Rutgers professors, including Charles Haberl. CMES plans to hold more workshops next year, because CMES is working in close partnership with the New Jersey Arab Heritage Commission, which was recently signed into law by Gov Corzine, and requires high school teachers to teach about Arab heritage.

Contact Person: Lynn Shanko  
Contact Phone: (732) 932-8701  
Contact email: rcha@rci.rutgers.edu

Populations involved: Teachers  
Teachers: History teachers 9-12  
Time: School year

Type of Program: Social Science, Workshop  
Location: Rutgers NB

Program #: 146  
Name of Program: Nurture thru Nature (NtN)

Unit or Department Sponsoring Program: Bloustein School of Planning & Public Policy and Department of Agricultural, Food and Resource Economics (DAFRE), School of Environmental and Biological Sciences

Website: none

Program Description: NtN is designed to increase elementary school students' interest in nature and science, and has the following objectives: (1) Increase students’ knowledge and understanding of the natural world through a curriculum developed and administered by Rutgers University faculty and graduate students. (2) Enable students to apply their language arts and mathematics knowledge while answering questions and experimenting with natural/environmental science issues. (3) Allow students to be active participants in the creation of a neighborhood urbanscape that will include an organic garden, small pond, butterfly garden, and bluebird trail. (4) Increase parental involvement in students’ academic life through family participation in projects focused on healthy eating/nutrition, water/air quality, neighbor ecosystems and pest control.

Contact Person: Radha Jagannathan and Michael J. Camasso  
Contact Phone: Radha: 732-932-5475 x668; Michael: 732-932-9155 x217  
Contact email: Radha: raha@rci.rutgers.edu; Michael: mcamasso@rci.rutgers.edu

Populations involved: Students K-5, parents  
Teachers: Not involved  
Time: Not specified

Type of Program: STEM, Health, Reading  
Location: Rutgers NB, Community facilities

Program #: 147  
Name of Program: Nutritional Sciences Preschool

Unit or Department Sponsoring Program: Department of Nutritional Sciences

Website: http://nutrition.rutgers.edu/presch/presch.htm

Program Description: The Nutritional Sciences Preschool is the only preschool in the United States with a special focus on nutrition. It serves approximately 35 local 3- and 4-year-old children on a part-time basis. It is a child development laboratory school, serving as the laboratory for approximately 35 college students per semester. It also serves as a research center on child nutrition.

Contact Person: Harriet S. Worobey, M. A.  
Contact Phone: 732 932-8895  
Contact email: harrietw@rci.rutgers.edu

Populations involved: Pre-K students  
Teachers: Not involved  
Time: School day

Type of Program: Health and child development, Research  
Location: Rutgers NB

Program #: 148  
Name of Program: Special Education Clinic

Unit or Department Sponsoring Program: Rutgers University School of Law

Website: http://law.newark.rutgers.edu/clinics/special-education-clinic

Program Description: Provides legal services and training to students, parents, and others interested in the health, education and welfare of disabled children from 0-21 in Special Education and Early Intervention.
**Program #: 149**  
**Name of Program:** NEW LeadershipTM (National Education for Women’s Leadership)  
**Unit or Department Sponsoring Program:** The Eagleton Institute of Politics’s Center for American Women and Politics (CAWP)  
**Website:** [http://www.cawp.rutgers.edu/education_training/NEWLeadership/index.php](http://www.cawp.rutgers.edu/education_training/NEWLeadership/index.php)

**Program Description:** (NEW LeadershipTM) is a non-partisan leadership education program developed by the Center for American Women and Politics (CAWP) to address the historical and contemporary under-representation of women in all levels of political office. The goal of NEW Leadership is to educate, empower and encourage college women to get involved in the political process. Each summer CAWP hosts the NEW Leadership New Jersey Summer Institute, an intensive six-day residential program held at Rutgers’ Eagleton Institute of Politics. The Summer Institute annually serves 35 women from colleges and universities across New Jersey, providing them with opportunities to: learn about women’s political participation; meet successful leaders; develop leadership skills; acquire leadership experience; discover how to influence politics; and interact with a diverse group of women. In addition, CAWP has created the NEW Leadership Development Network to train colleges and universities around the country to conduct their own NEW Leadership programs. Development Network partners attend the NEWL-NJ summer institute as observers, then conduct their own programs on their campuses with a CAWP observer on hand to advise and evaluate the first year.

**Contact Person:** Sasha Patterson, Ph.D.  
**Contact Phone:** 732-932-9384 ext. 248  
**Contact email:** sashap@rci.rutgers.edu  
**Populations involved:** College women  
**Teachers:** Not involved  
**Time:** Summer  
**Type of Program:** Workshop, politics, residential  
**Location:** Rutgers NB

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**Program #: 150**  
**Name of Program:** Pathways to Politics  
**Unit or Department Sponsoring Program:** Center for American Women and Politics, Eagleton Institute of Politics  
**Website:** [http://www.cawp.rutgers.edu/education_training/pathways_to_politics.php](http://www.cawp.rutgers.edu/education_training/pathways_to_politics.php)

**Program Description:** Pathways to Politics brings teen-age Girl Scouts from around the nation to CAWP for two weeks to learn about women’s political participation. In July 2008, CAWP hosted the third Pathways to Politics, building on successful programs in 2004 and 2006. Pathways is a collaboration between CAWP and the Girl Scouts of Central and Southern New Jersey under the national Girl Scout “Destinations” program. While many programs tell high school girls that they can be leaders and encourage them to consider careers in business or the professions, there are few opportunities for girls to envision themselves as public leaders or to consider why it is so important for them to become active, engaged citizens. Pathways to Politics instills in young women a sense of themselves as the leaders of tomorrow, especially in the worlds of government, politics, and advocacy.

**Contact Person:** Kathy Kleeman  
**Contact Phone:** (732) 932-9384, ext. 231  
**Contact email:** kleeman@rci.rutgers.edu  
**Populations involved:** Students 9-12  
**Teachers:** Not involved  
**Time:** Summer  
**Type of Program:** Politics, residential  
**Location:** Rutgers NB

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**Program #: 151**  
**Name of Program:** RU Ready  
**Unit or Department Sponsoring Program:** Eagleton Institute of Politics  
**Website:** [http://www.eagleton.rutgers.edu/YPPP/RUready.html](http://www.eagleton.rutgers.edu/YPPP/RUready.html)

**Program Description:** RU Ready, a civic education project created by the Eagleton Institute of Politics, is designed to provide high schools seniors in ethnically diverse and economically-challenged environments with the tools and encouragement to be civically and politically active upon graduation. The project is composed of a series of in-class sessions that involve role-play, simulation, debate, and discussion of local issues and possible solutions. These sessions are spaced over the course of the academic year and carried out by a team of Rutgers students who are trained and supervised by the project director, Elizabeth Matto. RU Ready is currently administered in New Brunswick High School (NBHS) with support from the Geraldine R. Dodge Foundation.

**Contact Person:** Elizabeth Matto, Ph.D.  
**Contact Phone:** 732-932-9384 ext. 256  
**Contact email:** ematto@rci.rutgers.edu  
**Populations involved:** Students grade 12, Rutgers student instructors  
**Teachers:** Not involved  
**Time:** Academic year  
**Type of Program:** Politics  
**Location:** Rutgers NB, local school, Central Jersey

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**Program #: 152**  
**Name of Program:** RU Voting  
**Unit or Department Sponsoring Program:** Eagleton Institute of Politics
Website: http://www.eagleton.rutgers.edu

Program Description: Launched in 2004 by the Eagleton Institute of Politics, this program was designed to formalize the University’s efforts to foster student civic participation. Through the development of an effective system for campus-wide voter registration and implementation of a peer-run program that encourages students to become politically involved, RU Voting has helped to ensure that students have the ability to turn their political enthusiasm into voting power. Eagleton has provided a base from which RU Voting’s bi-partisan coalition of more than a dozen student organizations can focus on student engagement. Over the past four years, we have watched many young people become energized and intensely focused on our political system.

Contact Person: Elizabeth Matto, Ph.D. Contact Phone: 732-932-9384 ext. 268 Contact email: ematto@rci.rutgers.edu Populations involved: Rutgers students Teachers: Not involved Time: Not specified

Type of Program: Politics, volunteer service Location: Rutgers NB

Program #: 153 Name of Program: 21st Century Learning Initiative
Unit or Department Sponsoring Program: CMSCE
Website: http://cmsce.rutgers.edu

Program Description: The CMSCE 21st Century Learning Initiative is designed to help schools keep up with today’s changing educational and technology needs. Increase teacher and student academic content knowledge through hands-on workshops, coaching/mentoring sessions, professional learning networks and online collaborations.

Contact Person: Lisa Thumann Contact Phone: 732-445-3025
Contact email: lisa.thumann@gmail.com Populations involved: Teachers
Teachers: Teachers 3-12 Time: Academic year Type of Program: STEM, Professional development, Workshops
Location: Rutgers NB, local schools, online

Program #: 154 Name of Program: After School Academies
Unit or Department Sponsoring Program: CMSCE
Website: http://cmsce.rutgers.edu

Program Description: CMSCE offers in-district after-school workshops designed to immerse teachers in the tools necessary to incorporate cutting-edge skills into their classrooms. Our specially designed personalized professional development will help teachers in your district be better prepared to work with today’s technologies.

Contact Person: Harriet Schweitzer Contact Phone: 732-445-0669 Contact email: harriets@rci.rutgers.edu
Populations involved: Teachers Teachers: Teachers P-12 Time: After school Type of Program: STEM, Professional development, workshops Location: Local schools, statewide

Program #: 155 Name of Program: Google Workshops for Educators
Unit or Department Sponsoring Program: CMSCE
Website: http://cmsce.rutgers.edu

Program Description: Search, learn, share! Brought to you by the producers of the Google Teacher Academy, a Google Workshop for Educators (GWE) introduces participants to innovative ways Google tools can be used in education. These fast-paced presentations and hands-on activities include experience with advanced search techniques, collaborative web-based applications, and inspirational instructional strategies. Google Certified Teachers share ways they’ve implemented tools such as Google Docs, Google Earth, Google Sites, and… even more. Participants who complete the event are given access to the Google Workshops for Educators Network (GWEN), an online community focused on supporting educators as they learn more about the power of Google to drive student learning.

Contact Person: Lisa Thumann Contact Phone: 732-445-3025 Contact email: lisa.thumann@gmail.com
Populations involved: Teachers Teachers: Teachers P-12 Time: After school Type of Program: STEM, Professional development, workshops Location: Local schools, statewide

Program #: 156 Name of Program: Interactive Whiteboards
Unit or Department Sponsoring Program: CMSCE
Website: http://cmsce.rutgers.edu

Program Description: CMSCE offers high quality professional development designed to learn how interactive white boards can help teachers and students in a variety of ways. Our facilitators share with attendees how to facilitate student learning using this exciting technology. From the basics to incorporating multimedia into your lessons, teachers leave our IWB workshops inspired.
Program #: 157 Name of Program: Universal Design for Learning
Unit or Department Sponsoring Program: CMSCE
Website: http://udlatrutgers.edublogs.org
Program Description: We offer sustained professional development in UDL in the areas of mathematics and literacy. Collaborate with other districts that are part of the CMSCE-UDL network and help your teachers enrich learning and reduce barriers to the curriculum while maintaining high achievement standards for all.
Contact Person: Lisa Thumann Contact Phone: 732-445-3025 Contact email: lthumann@rci.rutgers.edu
Populations involved: Teachers Teachers: Teachers P-12 Time: School day, summer Type of Program: Professional development, workshop Location: Rutgers NB, local schools, statewide

Program #: 158 Name of Program: RiSE (Research in Science and Engineering) at Rutgers/UMDNJ
Unit or Department Sponsoring Program: Graduate School-New Brunswick
Website: http://rise.rutgers.edu
Program Description: RiSE (Research in Science and Engineering) is a summer research program for college undergraduates which seeks to advance diversity in science, technology, engineering, and math. Students from across the United States and its territories spend the summer actively engaged in cutting-edge research in the laboratories of carefully matched faculty mentors. An outstanding suite of professional development activities, including training in scientific writing and speaking, career guidance, guest speakers, and GRE preparation, complements the research. The summer culminates in a Symposium, which is open to prospective students, their families and teachers, and members of the community. RiSE alumni have an impressive record of award-winning presentations at national research conferences and of placement at prestigious graduate schools. We especially encourage applications from students who are traditionally underrepresented in the sciences, from economically disadvantaged backgrounds or first-generation college families, or attend colleges with limited research opportunities. For additional information and to apply, visit http://rise.rutgers.edu.
Contact Person: Dr. Evelyn S. Erenrich Contact Phone: 732.932.7275 Contact email: rise@rci.rutgers.edu
Populations involved: College students Teachers: Not involved Time: Summer Type of Program: STEM, Research, residential Location: Rutgers NB

Program #: 159 Name of Program: Academy for Collaboration at a Distance (ACAD) Summer Institute
Unit or Department Sponsoring Program: Center for Mathematics, Science and Computer Education
Website: http://cmsce.rutgers.edu
Program Description: Spend a week in the summer learning about collaborations, videoconferencing (room-sized and web cams) and distance learning. Teachers will work together to set up distance learning projects that will be carried out during the next school year. Learn how you can bring content experts into your classroom to enhance your lessons and excite your learners.
Contact Person: Judy Bornstein Contact Phone: 732-445-0670 Contact email: jsborn@rci.rutgers.edu
Populations involved: Teachers Teachers: Teachers P-12 Time: Summer Type of Program: STEM, Professional development, workshop Location: Rutgers NB

Program #: 160 Name of Program: College Connections
Unit or Department Sponsoring Program: Center for Mathematics, Science and Computer Education
Website: http://cmsce.rutgers.edu
Program Description: CMSCE provides a bridge between Rutgers University faculty and staff and the K12 community for videoconferencing programming. Schools reach out to the Center for assistance in getting content experts into their classrooms. The Center works with the university staff on the technical aspects as well as help creating grade-level appropriate programs.
Contact Person: Judy Bornstein Contact Phone: 732-445-0670 Contact email: jsborn@rci.rutgers.edu
Populations involved: Students P-12, Rutgers faculty experts Teachers: Teachers P-12 Time: School day, after school Type of Program: STEM, Information and advice Location: Online

Program #: 161 Name of Program: Special Events Free Workshops
Unit or Department Sponsoring Program: Center for Mathematics, Science and Computer Education
Website: http://cmsce.rutgers.edu
Program Description: The Center provides free workshops on a variety of topics including Internet Safety, UDL, First in Math, Web 2.0 tools and other cutting edge educational opportunities for teachers and administrators around the state.
Contact Person: Judy Bornstein Contact Phone: 732-445-0670 Contact email: jsborn@rci.rutger.edu
Populations involved: Teachers Teachers: Teachers P-12 Time: School day Type of Program: STEM, Special education Location: Rutgers NB

Program # : 162 Name of Program: Peace Corps Connection
Unit or Department Sponsoring Program: Center for Mathematics, Science and Computer Education
Website: http://cmsce.rutgers.edu
Program Description: The Center has formed a partnership with the Peace Corps to provide a 2-year collaboration between New Jersey classrooms and volunteers in the field using desktop videoconferencing and other Web 2.0 tools. Students will have real-time interactions with the volunteers as well as students and community members in the villages, towns and cities they serve. This sustained collaboration is designed to promote a deeper understanding and appreciation of cultures around the world.
Contact Person: Judy Bornstein Contact Phone: 732-445-0670 Contact email: jsborn@rci.rutger.edu
Populations involved: Students 3-8 Teachers: Teachers 3-8 Time: School day Type of Program: STEM, Social Science Location: Online

Program # : 163 Name of Program: Read Across the Atlantic
Unit or Department Sponsoring Program: Center for Mathematics, Science and Computer Education
Website: http://cmsce.rutgers.edu
Program Description: Travel virtually across the Atlantic in this free videoconferencing project connecting New Jersey K-12 classrooms with schools in the United Kingdom to share their love of reading. Participating classes will be paired by grade level and type of equipment. This program is open to web cam users as well as room-sized equipment participants.
Contact Person: Judy Bornstein Contact Phone: 732-445-0670 Contact email: jsborn@rci.rutger.edu
Populations involved: Students P-12 Teachers: Teachers P-12 Time: School day Type of Program: STEM, Reading Location: Online

Program # : 164 Name of Program: Read Across New Jersey
Unit or Department Sponsoring Program: Center for Mathematics, Science and Computer Education
Website: http://cmsce.rutgers.edu
Program Description: Travel across New Jersey for a virtual collaboration via videoconferencing to share a love of reading. Participating classes will be paired by grade level and type of equipment. This program is open to web cam users as well as room-sized equipment participants.
Contact Person: Judy Bornstein Contact Phone: 732-445-0670 Contact email: jsborn@rci.rutger.edu
Populations involved: Students P-12 Teachers: Teachers P-12 Time: School day Type of Program: STEM, Reading Location: Online

Program # : 165 Name of Program: Verizon K20 Videoconferencing Catalog
Unit or Department Sponsoring Program: Center for Mathematics, Science and Computer Education
Website: http://cmsce.rutgers.edu/resources/vc/search/search_verizon_db.php
Program Description: The Center, with support from Verizon, has created and maintained a catalog of over 300 content provider programs for K12 that can be delivered via videoconferencing. The programs are all aligned to New Jersey Core Curriculum Standards and are accessible via room-sized or desktop videoconferencing. Content providers include museums, zoos, and college professors. The Center provides training for teachers and providers throughout the year.
Contact Person: Judy Bornstein Contact Phone: 732-445-0670 Contact email: jsborn@rci.rutger.edu
Populations involved: Teachers Teachers: Teachers P-12 Time: Any time Type of Program: STEM, Report Location: Online

Program # : 166 Name of Program: Professional Development Workshops for K12 Educators
Unit or Department Sponsoring Program: Center for Mathematics, Science and Computer Education
Website: http://cmsce.rutgers.edu
Program Description: CMSCE professional development, created by a group of master teachers, provides workshops throughout New Jersey. Workshops are designed to help educators understand and envision ways to integrate technology within their school curriculum. Content focused workshops are hands-on and aligned with the New Jersey Core Curriculum Content Standards. Topics include interactive whiteboards, technology integration, and learning strategies.

Contact Person: Judy Bornstein  Contact Phone: 732-445-0670  Contact email: jsborn@rci.rutger.edu

Populations involved: Teachers  Teachers: Teachers P-12  Time: School day, summer  Type of Program: STEM, Professional development, workshops  Location: Rutgers NB, local schools, statewide

Program #: 167  Name of Program: COSEENOW-Centers for Ocean Science Education Excellence Networked Ocean World

Unit or Department Sponsoring Program: Marine Sciences (SEBS)

Website: http://www.coseenow.net

Program Description: COSEE NOW is one of 11 National Science Foundation funded centers focused on excellence in ocean science education and public outreach. The site contains a variety of resources and social networking tools designed to connect scientists and educators in productive partnerships. It includes our Marine Activities Resources & Education (MARE) program for K-8 educators and students.

Contact Person: Janice McDonnell  Contact Phone: 732-932-6555 x521  Contact email: mcdonnel@marine.rutgers.edu

Populations involved: Students P-16  Teachers: Teachers P-12  Time: Any time

Type of Program: STEM, Professional development, workshops, reports  Location: Rutgers NB, local schools, online

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CMSCE Partnerships 2008-2009

• Partnerships with School Districts

The Center partners with school districts to provide high level professional development and mentoring for their staff. Center staff provided professional development in Avon Borough, Bayhead, Bloomfield, Camden, Carlstadt, City Of Orange Township, Clifton, District of the Chathams, Franklin, Freehold Borough, Hamilton, Hanover Park, Harrison, Hebrew Academy of Morris, Highpoint Regional, Keyport, Lakewood, Matawan-Aberdeen, Middletown, Ocean Township, Palisade Park, Plainfield, Princeton Regional, Soaring Heights Charter School, Solomon Schechter Day School of Essex and Union, Spring Lake, The Wardlaw-Hartridge School, West New York and other districts throughout the state. The Center worked with teachers from nearly all 650 school districts throughout the state of New Jersey impacting hundreds of thousands of young students.

• Partnerships with Rutgers STEM Faculty

An important goal of the Center for Mathematics, Science and Computer Education is to involve STEM faculty in our K-12 outreach. Two recent examples of such involvement include:

- The GK12 Program (funded and renewed by the National Science Foundation)
  This project brought together faculty, from physics, geology, biology, mathematics and education to help improve the teaching and learning of STEM curriculum in middle schools. As a result of their involvement, we have brought together a cadre of talented and dedicated graduate and undergraduate fellows in STEM disciplines to work closely with teachers and students and help inspire them and broaden their knowledge.

- Metro Math Center (funded by the National Science Foundation)
  This project has brought together mathematicians, math educators, urban studies faculty, and cognitive science faculty from three universities and both the Rutgers Newark and New Brunswick campuses to build the infrastructure of mathematics education in America’s cities.

In addition, we have reached out to engineering faculty to collaborate with them in the creation of a K-12 educational component when they have submitted proposals to NSF. In 2008-2009 we intend to increase collaborative efforts with STEM faculty as they submit proposals in their areas of expertise that require a K12 educational component.
• **Partnerships with Rutgers Units**

- The Center continues its collaborative relationship with Dr. Raphael Caprio, Vice President for Continuous Education and Outreach.
- The Center works closely with The Rutgers Foundation on a number of funding initiatives.
- The Center works closely with the Paul Robeson Cultural Center and Dr. Prosper Godonoo, director of the Center. While enhancing the educational experience of Black students at Rutgers, the Center provides opportunities for all students to receive a more culturally diverse and enriching educational experience. In collaboration with the Center, CMSCE provides service opportunities in local school districts for the Rutgers students to act as mentors. We are also pursuing various funding opportunities for additional projects.
- The Center worked closely with Graduate School of Education. The linkage between the Center for Mathematics, Science, and Computer Education and the Graduate School of Education deserves special note. Much of the impetus and planning for the development of the Center stemmed from the work of members of the GSE. The GSE has sponsored summer courses in conjunction with Center projects and Center Summer Institutes. Numerous GSE faculty members guide Center sponsored projects. Materials developed in these Center-sponsored projects have infused courses taught by GSE faculty thus transmitting the latest and best ideas in math, science and technology to GSE graduate students. The linkage between the Center and the GSE is special, strong, and inextricable. GSE faculty are the lifeblood of the Center and their work with the Center invigorates them and enhances their teaching. The Center, in collaboration with GSE faculty, is creating and delivering a multi-disciplinary four semester sequence of courses entitled, “MU Seminar designed for doctoral students and practicing teachers.” The Center is funding 5 MetroMath fellows.
- The Center works closely with the Vice President Joan W. Bennett and the Office for Promotion of Women in Science, Engineering, and Mathematics to support programming designed to enhance opportunities for increased participation by women in science, technology, engineering, and mathematics. The Office for Women in Science, Engineering and Mathematics (WiSEM) shares many of the same goals and objectives as CMSCE. WiSEM focuses specifically on issues facing women in SEM fields. Their initiatives include support of lectures and workshops, offering of mini grants to support interdisciplinary studies and the formation of strategic partnerships. For example, they have worked with the President’s Council on Diversity to develop best practices for conducting faculty searches, with the Center for Women and Work and Bio-1 Wired to develop leadership courses, and with the Douglass Project to support scholarships for undergraduate women.

• **Partnership with Other Universities and Research Institutes**

- The Center is collaborating with the University of Pennsylvania and the City University of New York Graduate Center to develop common multi-disciplinary graduate courses and research to improve mathematics learning in urban environments.
- The Center is collaborating with the Stanford Research Institute to submit a proposal on developing a questionnaire instrument to measure engagement in learning mathematics.

• **Partnerships with Business and Industry**

- The Center continues working with Verizon and NJ Edge to help informal education institutions establish videoconferencing capabilities and programs for schools throughout New Jersey and the world.
- The Center has established partnerships with technology companies to bring cutting edge technology strategies and software to K-12 schools in New Jersey. Among these companies are eBoard and Seacliff Technologies, E-Beam, Logitech, Polycom and Impact Technologies, VoiceThread, Google, Elluminate, and ooVoo.
MetroMath

Presentations:


Donoghue, E., Brantlinger, A., & Henry, S. (2009). Kelly and the Context of Her Mathematics Cohort in the New York City Teaching Fellows Program. NCEI/NCAC Effective Pathways into Teaching Conference. Hosted by the National Center for Education Information (NCEI), National Center for Alternative Certification (NCAC), and Organized by Westat. Washington DC.


Journal Publications:


Dissertations:


Technology

Co-Coordinator-Edubloggercon East, Building Learning Communities (BLC 08), Boston, MA, July 14, 2008

"The Power of Our Collective Intelligence, Building Online Learning Communities", Building Learning Communities (BLC 08), Boston, MA, July 17, 2009

"Google Sites", Google Teacher Academy, Chicago, IL, September 24, 2008

"In Tune with The 21st Century Student", New Jersey Association for Educational Technology (NJAET), Lakewood, NJ, October 14, 2009

"In Tune with Your Personal Learning Network (PLN)", New Jersey Association for Educational Technology (NJAET), Lakewood, NJ, October 14, 2009

"Google Sites", Google Teacher Academy, New York, NY, November 18, 2008

"EdTech Connect, Tapping Into the Power of the Network", Educon 2.1, Philadelphia, PA, January 24, 2009


"Google Apps Education Edition", Google Teacher Academy Reload, New York, NY, February 27, 2009


"Searching Google in a Snap" Discovery Educator's Network, Second Life, April 29, 2009

"Google Search Tips", Classroom 2.0 Live, Elluminate, June 6, 2009

Science

Waksman Students Scholars Project

Publishing Student Work on NCBI: As a result of clone analysis by the high school students and their teachers, 102 new Artemia DNA sequences will be published in the near future on GenBank for use by the scientific community.

WGBH and the WSSP

The WSSP program was chosen as one of six ITEST projects to be part of the ITEST Media Initiative that was produced by WGBH. The project profile is entitled "Publishing Genome Research". The resulting production was debuted by WGBH at the ITEST Summit meeting on Feb 25-27, 2009 in Washington, DC. The links to this are posted on the ITEST EDC web site: http://itestlrc.edc.org/sites/itestlrc.edc.org/inside_itest/njprofile.html

East Brunswick, NJ School District and the WSSP

A 30 minute video and audio piece was developed the East Brunswick School District on the Waksman Student Scholars Program and the HiGene Project. This was aired on East Brunswick Television Network throughout the month of June 2009. The piece was part of regular television broadcast programming for the East Brunswick Television Network.

Math and Science Initiatives: Building a Learning Community in Science & Mathematics through Educational Partnerships – Track II

In conjunction with two Graduate Student Fellows, the project director (KS) conducted a hands-on workshop entitled "On the Road with the Rutgers Science Explorer" at the 32nd annual New Jersey Science Convention (NJSC) in Somerset, NJ on 10/15/08. 18 teachers attended the presentation and engaged in hands-on activities based on a lesson about cells that was developed by one of the Fellows. Information about the Rutgers Science Explorer Bus was also distributed.

CMSCE Future Visions 2008-2009

2008-2009 promises to be an exciting year for the Center for Mathematics, Science, and Computer Education. The following activities are high priorities for the upcoming year:

- **MetroMath: The Center for Mathematics in America’s Cities**

  We see the MetroMath Center focusing intensely on key issues. Our research goals during the final year of the project address critical questions in urban mathematics education, whose answers will have important consequences influencing policy and practice. Moreover, we see the Center developing a community of leaders with the expertise to develop and implement changes based on particulars of the urban context, and informed by research. All our activities, including the MU seminar and teacher leader programs, are aligned with our framework.

- **Math and Science Partnerships**

  We have been working closely with teachers in partner districts as part of our ESTEEMS project which is funded by the NJ Department of Education. Based on preliminary feedback from our NSF program officer we have high hopes of launching a 5 year NSF funded Math and Science Partnership with at least seven districts representing a cross-section of student socioeconomic status to improve the teaching and learning of middle-school mathematics. If funded, the New Jersey Partnership for Excellence in Middle School Mathematics will develop four new courses to be taught during Summer Institutes and three new academic year courses that will enable district partnership fellows to obtain a Masters Degree in mathematics education. This partnership would develop a cadre of teachers prepared to apply enhanced understanding of mathematics, pedagogy, and leadership to improve student engagement and achievement not only in their own classrooms but throughout
their schools and districts. The partnership would take advantage of the experience, expertise, and enthusiasm of the partner institutions which has grown from prior efforts and which provides the capacity to implement these plans. The partner school districts face a broad array of the most challenging problems in current American education. Success in this venture would provide a basis for effective action in many locations across our state and nation.

- **Development of a Web Portal for pre-K-16 Outreach Activities**

  With support from Vice President Pazzani, we began an effort to identify outreach initiatives by Rutgers units. This work built upon previous efforts to locate similar information. We have collected information about existing initiatives and are creating a web portal which will make information about Rutgers outreach efforts and partnership programs in pre-K through college education more accessible. We envision this web portal serving a wide range of purposes such as connecting students, parents, and schools with Rutgers-based educational programs; connecting Rutgers faculty members and students who want to be involved in education to existing programs; and sharing research conducted at Rutgers with both researchers and practitioners.

- **Expanding the Vision – 21st Century Learning Initiative**

  The CMSCE 21st Century Learning Initiative is designed to help educators keep up with today's changing educational and technology needs. The goal is to increase teacher and student academic content knowledge through hands-on workshops, coaching/mentoring sessions, professional learning networks and online collaborations. Through sessions at the CMSCE, virtual meetings, ongoing online communication and in-class mentoring we are able to support teachers and their students as they move their classrooms into the 21st Century.

- **Expanding the Vision – Universal Design for Learning (UDL)**

  “Universal Design for Learning (UDL) is a framework for designing curricula that enable all individuals to gain knowledge, skills, and enthusiasm for learning. UDL provides rich supports for learning and reduces barriers to the curriculum while maintaining high achievement standards for all.” (CAST.org) Through workshops and in-class mentoring we are able to support teachers and their students as they integrate UDL principles.

- **Expanding the Vision – Connecting Teachers and their Students through Videoconferencing Technology**

  The Center has been working with Verizon and videoconferencing groups and providers throughout New Jersey and the United States to bring this ever-growing technology into school districts. As desktop videoconferencing becomes increasingly popular and accessible, the Center continues to unite students with experts from around the globe in order to experiences beyond the four walls of their classroom. We will also sponsor mini videoconference workshops to extend the teachers and administrators understanding of this cutting edge technology as well as develop desktop videoconference tutorials for educators to access at their own convenience.

- **Expanding the Vision – Integrating Technology into Education to Assist Teachers as they become Highly Qualified (NCLB Act)**

  The Center is working with NJ SSI in implementing the ESTEEMS grant. This grant, with funding from NJ DOE continues to provide professional development to help middle school math and science teachers become “highly qualified.”
• Expanding the Vision – Digital Teaching and Learning

As the Center moves to support innovative teaching and learning, we continue to develop and offer courses that will aid educators in mastering the necessary skills for 21st Century learning. By building professional development that allows for collaboration and flexibility, the Center will provide support for effective strategies in teaching and assess students the necessary technology skills. The Digital Teaching and Learning Lab has submitted proposals to funding agencies to support this effort.

Yakov M. Epstein  
Center Director

Harriet Schweitzer  
Associate Director

CMSCE Funding 2008-2009

| Funding derived from the New Jersey Department of Education, New Jersey Department of Treasury, The National Science Foundation, Corporations and Foundations and School District Cost Sharing totaled $14,737,784. The annualized base funding for 2008-2009 was $3,072,383. |

CMSCE Staff 2008-2009

During the past year, the Center staff numbered 31 full-time and part-time individuals. 
TABLE 1

CENTER EXECUTIVE COMMITTEE
2008-2009

Luke Burke  
Professor, Chemistry (Camden Arts and Sciences)  
burke@camden.rutgers.edu

Richard DeLisi  
Dean, Graduate School of Education.  
delisi@rci.rutgers.edu

Yakov M. Epstein  
Director of the Center (ex officio):  
Professor, Dept. of Psychology (FAS), 
yepstein@rci.rutgers.edu

Eugenia Etkina  
Associate Professor (Science Education) Dept. of Learning and Teaching (GSE)  
eugenia.etkina@gse.rutgers.edu

Gerald A. Goldin  
University Director, Science and Mathematics Partnerships, Professor (Mathematics and Science Education). Dept. of Learning and Teaching (GSE), and Depts. of Mathematics and Physics (FAS)(ex officio),  
gagoldin@dimacs.rutgers.edu

William Librera  
Presidential Research Professor of Education,  
blibrera@rci.rutgers.edu

Carolyn A. Maher*  
Professor (Mathematics Education), Dept. of Learning and Teaching (GSE),  
cmaher@rci.rutgers.edu

Arthur J. Powell  
Associate Professor, Academic Foundations (Newark),  
adpowell@andromeda.rutgers.edu

Fred S. Roberts  
Director, Center for Discrete Mathematics and Theoretical Computer Science,  
froberts@dimacs.rutgers.edu

Joseph Rosenstein*  
Professor, Dept. of Mathematics (SAS)  
joer@math.rutgers.edu

James M. Schlegel  
Professor, Dept. Of Chemistry, (Newark Arts and Sciences),  
jimms@andromeda.rutgers.edu

Kathleen M. Scott  
Associate Professor, Dept. Of Biological Sciences (SAS),  
scott@biology.rutgers.edu

Robert Schorr  
Associate Professor, Academic Foundations (Newark Arts and Sciences,),  
schorr@rci.rutgers.edu

Harriet Schweitzer  
Center Associate Director for Educational Programming (ex officio),  
harriets@rci.rutgers.edu

Bill Tucker,  
Professor, Psychology (Camden Arts and Sciences)  
btucker@camden.rutgers.edu

Bill Whitlow, Jr.  
Professor, Psychology (Camden Arts and Sciences)  
bwhitlow@camden.rutgers.edu

*Member of original working committee to develop the Center.
TABLE 2

CENTER STAFF
2008-2009

CMSCE Central Staff

Yakov M. Epstein  Center Director
Gerald A. Goldin   Director, Science and Mathematics Partnerships
Harriet Schweitzer  Associate Director
Kathleen Scott   Associate Director for Undergraduate and Graduate Programs
Patricia A. McManus   Business Manager I
Michele Giusti   Administrative Assistant II
Kathy Lin   Graduate Assistant I

MetroMath Staff

Karen Murray   Project Manager
Lynda Ginsburg   Senior Research Associate

New Jersey Statewide Systemic Initiative Staff

Deborah Cook   Project Director/Principal Investigator
Hector Lopez   Sr. Science Education Specialist
John O'Brien   Sr. Math and Technology Specialist
Robert O'Such   Departmental Administrator
Amari Verastegui   Program Coordinator
Olivia Walker   P/T Clerical
Aleta You   Sr. Equity Specialist

Mathematics Program Staff

Janice Kowalczyk   Senior Math Education Specialist, Leadership Programs in Math
Kerstin Schnatter   Sr. Program Coordinator
Debra Toti               Sr. Program Coordinator
Alma Woolfork-Buchanan Sr. Administrative Assistant

Science Program Staff

Susan E. Coletta        Sr. Science Education Specialist

Technology Program Staff

Judy Bornstein          Sr. Technology Education Specialist
Lisa Thumann            Sr. Technology Education Specialist
Kristine Scharaldi      Technology Instructor
Roberta Rim             Technology Instructor
Jackie Halaw            Technology Instructor
Heather Johnson         Technology Instructor
Sally Schannen          Technology Instructor
Debbie Gries            Technology Instructor
Elyse Pernick           Technology Instructor
Patti Frank             Technology Instructor
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<tr>
<th>Name</th>
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<tr>
<td>Dr. Alice Alston</td>
<td>Lecturer, Mathematics Education, Graduate School of Education</td>
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<tr>
<td>Dr. R. Michael Beals</td>
<td>Vice Dean for Undergraduate Education, School of Arts and Sciences, Professor of Mathematics, (NB-SAS)</td>
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<td>Dr. Joan W. Bennett</td>
<td>Associate Vice President for Promotion of Women in Science, Engineering, and Mathematics and Professor, Plant Biology and Pathology (SEBS)</td>
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<td>Dr. Michael J. Carr</td>
<td>Professor, Department of Geology and Dean, Physical &amp; Mathematical Sciences, FAS</td>
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<td>Dr. Jolie A. Cizewski</td>
<td>Professor, Department of Astronomy and Physics, and Vice Dean of the Graduate School</td>
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<td>Dr. Amy Cohen-Corwin</td>
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<td>Dr. Margaret Barry Cozzens</td>
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<td>Center Director, Professor, Department of Psychology</td>
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<td>Dr. William Firestone</td>
<td>Professor, Educational Theory, Policy, and Administration, Graduate School of Education</td>
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<td>Dr. Rochel Gelman</td>
<td>Department of Psychology and Co-Director, Rutgers Center for Cognitive Science</td>
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<td>Dr. Norman Glickman</td>
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<td>Dr. Gerald A. Goldin</td>
<td>University Director, Science and Mathematics Partnerships, Professor Mathematics and Science Education, Mathematics and Physics</td>
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<td>Dr. Prosper Godonoo</td>
<td>Director, Paul Robson Cultural Center</td>
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<td>Dr. Arthur Powell</td>
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<tr>
<td>Dr. Joseph Rosenstein</td>
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<td>Dr. Kathleen M. Scott</td>
<td>Professor, Cell Biology and Neurosciences and Director, Math Science Learning Center</td>
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<td>Dr. Roberta Y. Schorr</td>
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<td>Dr. Andrew Vershon</td>
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Table 4

CENTER FOR MATHEMATICS, SCIENCE, AND COMPUTER EDUCATION
PROJECT FUNDING 2006-2007

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### SELF-SUPPORT PROGRAMS

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**TOTAL SELF-SUPPORT PROGRAMS**

|                   |                 | $614,047       | $614,047   |

**TOTAL FUNDING FOR 2008-2009**

|                   |                 | $14,737,784    | $3,072,383 |

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### TABLE 5

**CENTER FUNDING 1985-2007**

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