



Resource Summary
for the
Medford & Somerville
Public Schools

TABLE OF CONTENTS

Graduate & Professional Studies, School of Arts, Sciences & Engineering	1
Graduate Degree Programs	1
Professional Certificate Programs	1
Post-Baccalaureate Programs	1
Graduate Career Advancement Program.....	2
Community Audit Option.....	2
Reduced Tuition for Educators and Occupational Therapists	2
Special Programs for Teachers.....	2
Education Department	3
Programs of Study & Degrees Offered	3
Curriculum Resource Center	3
Eliot-Pearson Department of Child Development	4
About Eliot-Pearson	4
Graduate Programs – Eliot Pearson Department of Child Development.....	4
Research Projects, Centers, and Institutes – Eliot Pearson Dept. of Child Development.....	5
Institute for Applied Research in Youth Development	5
Center for Applied Child Development	5
Center for Reading and Language Research	6
Tufts Literacy Corps	6
Child & Family Web Guide	6
Home-School Connection Program	7
The Fletcher Global Issue Seminar Series	7
Center for Engineering Educational Outreach	8
Web Site	8
Student Teacher Outreach Mentor Program (STOMP).....	8
Tufts Engineering the Next Steps (TENS GK-12)	8
Pre-College Engineering for Teachers (PCET)	8
Teacher Institutes and Educator workshops	8
Programs for Kids	8
Center for Science and Mathematics Teaching	9
Wright Center for Science Education	9
Leonard Carmichael Society (LCS)	9
Youth Mentoring Programs	9
All Stars	9
Big Brothers	9
CHILD (Caring Helps In Living with Disabilities)	10
GIRLS (Girl Interaction Raising Levels of Self-Esteem)	10
Kids Day	10
PALS	10
Special Friends	10
Traveling Treasure Trunk.....	10
Literacy and Education Programs.....	10
Adult Literacy/English as a Second Language.....	10
ASAP	10
Junior Achievement.....	10
Kids to College.....	10
Tutoring	10
Community Relations Office	11

GRADUATE & PROFESSIONAL STUDIES, SCHOOL OF ARTS, SCIENCES & ENGINEERING
URL: [HTTP://ASE.TUFTS.EDU/GRADSTUDY](http://ase.tufts.edu/gradstudy)

Tufts University offers advanced degree programs in arts, sciences, and engineering. Our faculty, a community of scholars and researchers, are eager to involve graduate students in their research and teaching agendas. Application materials are available online.

Graduate Degree Programs

- Art and Art History
- Art History and Museum Studies
- Biology*
- Biomedical Engineering
- Biotechnology Engineering
- Chemical Engineering
- Chemistry*
- Child Development*
- Civil and Environmental Engineering
- Classics
- Classical Archaeology
- Computer Science*
- Drama*
- Economics
- Education*
- Electrical Engineering
- Engineering Management:
The Gordon Institute
- English*
- French
- German
- History*
- History and Museum Studies
- Interdisciplinary Doctorate*
- Mathematics*
- Mechanical Engineering
- Museum Education
- Music
- Occupational Therapy
- Philosophy
- Physics*
- Psychology*
- Public Policy
- Studio Art (Joint Program with the
School of the Museum of Fine Arts,
Boston)
- Urban and Environmental Policy and
Planning

*Doctoral degree offered

Professional Certificate Programs

Students may also pursue practice-based master's degrees or graduate certificates in a number of areas:

- Bioengineering
- Biotechnology
- Biotechnology Engineering
- Community Environmental Studies
- Computer Science
- Environmental Management
- Epidemiology
- Human-Computer Interaction
- Management of Community
Organizations
- Manufacturing Engineering
- Microwave and Wireless Engineering
- Museum Studies
- Occupational Therapy
 - Advanced Professional Study
 - Advanced Study in Pain Topics
 - Hand and Upper Extremity
Rehabilitation
 - School-Based Practice
- Program Evaluation

Post-Baccalaureate Programs

We offer post-baccalaureate programs in premedical studies and computer science, and the opportunity to select individual courses through the Graduate Career Advancement Program. These programs offer clusters of primarily undergraduate courses that are often prerequisites for entering health science or computer science professions. They are ideal programs for people who have already earned bachelor's degrees in non-science fields and want to change career directions.

- Post-Baccalaureate Pre-Medical Program
- Post-Baccalaureate Minor Program in Computer Science

GRADUATE & PROFESSIONAL STUDIES, SCHOOL OF ARTS, SCIENCES & ENGINEERING (CONTINUED)

Graduate Career Advancement Program

The Graduate Career Advancement Program (GCAP) was created to accommodate the student who wants access to advanced educational opportunities without committing to a graduate program. For more information visit <http://ase.tufts.edu/gradstudy> and search for "GCAP".

Community Audit Option

Academic Year: As a community service, Tufts offers a low-cost audit option during the fall and spring for senior citizens, residents of Somerville and Medford, Tufts alumni, and Medford and Somerville teachers. Community auditors may register for one lecture course per semester for only \$175 plus the registration fee. (it is not possible to audit a course with a laboratory). For more information, visit <http://ase.tufts.edu/gradstudy> and search for "community audit".

Summer Session: During the summer sessions, the community audit is offered to senior citizens, residents of Somerville and Medford, Tufts alumni, and Medford and Somerville teachers at no cost, except for a small registration fee. For more information and an application form, visit <http://ase.tufts.edu/summer/other.asp>.

Reduced Tuition for Educators and Occupational Therapists

Through the Tufts University Center for Excellence in Teaching (TUCET), full-time teachers, administrators, and guidance counselors in a K-12 system may apply for a reduced tuition for undergraduate or graduate courses. Occupational Therapists who are employed full-time in occupational therapy practice are eligible for a reduced tuition for graduate level courses under the Tufts University Scholarships for Occupational Therapists (TUSOT) program. The rate reduction is available for courses taken for credit during the fall, spring, and summer terms. Reduced tuition does not apply to courses that are audited or for those students who are receiving tuition scholarships or are using tuition vouchers during the same semester. Registration and application fees are still the responsibility of the student. For more information visit <http://ase.tufts.edu/gradstudy> and search for "TUCET".

Special Programs for Teachers

Each year, Tufts University hosts programs designed for and attended by pre-college teachers from around the country. These programs, based in the academic departments and centers and taught by distinguished Tufts faculty, enable teachers to deepen their knowledge, broaden their perspectives, and renew their links to the academic disciplines.

Programs recognize the advanced level and special interests of teachers, provide interaction between university scholar-educators and a small group of teachers, and take place in a supportive collegial environment.

For more information about such programs, visit the web sites of the Department of Education, the Eliot-Pearson Department of Child Education, the Center for Engineering Educational Outreach, the Center for Science and Mathematics Teaching, and the Wright Center for Science Education (additional information and web site addresses are listed below).

Programs of Study & Degrees Offered

Students in all the graduate education programs examine current concepts in educational theory, practice, and research. Courses are complemented with fieldwork, an essential part of the programs. **Eight programs are offered:**

The **M.A.T. (Master of Arts in Teaching)** prepares students to be licensed to teach in elementary through secondary schools. There also is a **M.A.T. in visual art education** program, aimed at artists who wish to teach and offered jointly with the School of the Museum of Fine Arts.

The **M.A./C.A.G.S. (certificate of advanced graduate studies) in school psychology** leads to licensure as a school psychologist. It integrates course work with field-based training and emphasizes a scientific problem-solving model.

The **M.A. in educational studies** encourages students to create a program that meets their own research interests. The **M.A. in museum education** is offered for students desiring careers as museum coordinators or education directors. **Tufts/Shady Hill Cooperative M.A.** is an innovative program that prepares students for Massachusetts licensure for teaching grades five to eight after successfully spending a year studying and working as an apprentice in the Shady Hill School in Cambridge.

The **M.S. in mathematics, science, technology, and engineering education** prepares students to work in schools, research institutions, and in other educational settings.

The **Ph.D. in mathematics, science, technology, and engineering education** prepares students for careers in teaching and research based upon a deep understanding of mathematics, science, and engineering content, uses of technology in education, learning and development theories, and pedagogy.

Curriculum Resource Center

The Tufts Department of Education Curriculum Resource Center (CRC), located on the first floor of Paige Hall, provides a space where **educators of all grade levels** can gather to **explore ways to use technology** to create a better learning experience for their students. The CRC serves as a resource for:

- **Students in the Education Department** (both undergraduate and graduate)
- **PreK-12 teachers** from the surrounding communities
- **Software developers** looking to field-test curriculum materials (paper or electronic).

The CRC houses both printed and technological resources. In addition to a number of **books** and **journals**, it currently maintains **11 desktop computers** (6 Mac, 5 PC) with **facilities for digital video and image editing**. **Seminars** are held throughout the year in the CRC to highlight innovative projects.

About Eliot-Pearson

Eliot-Pearson, which began as a nursery school serving children from Boston living in poverty, has developed into an interdisciplinary department, with faculty leaders from fields including psychology, education, law, linguistics, neuroscience, and public policy. As a research and educational facility, Eliot-Pearson is unique in its integration of child development research and theory with effective practice. **The department trains a talented cadre of child development professionals at the undergraduate and graduate levels, including B.A., M.A., M.A.T. and Ph.D. programs.** In 1981, Eliot-Pearson established the country's first doctoral program in applied child development.

The department emphasizes collaboration through its multiple ties to community stakeholders. Eliot-Pearson has a proven track record of developing the best kind of collaborations between the university and the community – those that both benefit people's real lives and further our understanding of human development.

One of the cornerstones of the Eliot-Pearson mission is its dedication to promoting excellence in early childhood education. **The department's two laboratory schools**, the Eliot-Pearson Children's School and the Tufts Educational Day Care Center, serve as models for best educational practices, and **provide opportunities for students to learn, work, and conduct research.** Eliot-Pearson enjoys a reputation as one of the country's most respected programs in the study of children and the training of experts in the field of education. The late Ernest L. Boyer, President of the Carnegie Foundation for the Advancement of Teaching, named it one of the leading programs in the country in his seminal work *Ready to Learn*. He wrote that Eliot-Pearson is "engaged in pioneering laboratory and research work in early education."

Graduate Programs – Eliot Pearson Department of Child Development

The Department of Child Development offers the following graduate programs:

- Master of Arts (M.A.)
- Master of Arts in Teaching (M.A.T.)
- Doctor of Philosophy (Ph.D.)

M.A. candidates are offered two program options; one requires the completion of a thesis, while the other requires an intensive internship in a setting serving children (M.A. - Applied).

There are also **two joint degree programs**, one **with the Department of Education** and the other **with the Department of Urban and Environmental Policy**. All of the programs are designed to help graduate students integrate child development research and theory with effective practice. All offer opportunities for working with children and conducting research in a variety of settings, including the Department's two laboratory schools.

Graduate Programs – Eliot Pearson Department of Child Development (continued)

Concentrations within Child Development

In order to help focus their course of study towards career goals, students pursuing the M.A. or Ph.D. degrees may elect to complete the requirements of a concentration. There are seven possible concentrations:

- Children with Special Needs
- Clinical Developmental Psychology
- Cognitive Development
- Educational Studies
- Family Studies
- Language and Literacy
- New Technologies and Human Development

The discussion about whether to pursue a concentration is usually made in conjunction with a Program Adviser during the first year of study, preferably during the first semester.

Research Projects, Centers, and Institutes – Eliot Pearson Dept. of Child Development

Institute for Applied Research in Youth Development

URL: <http://ase.tufts.edu/iaryd>

The Institute creates research projects, outreach programs, scholarly resources, practitioner tools, and collaborative connections to promote healthy, positive development among diverse children, adolescents, families, and communities. The Institute seeks to:

- Engage all people and resources in our communities, to transform the way people think and talk about young people, and to promote a new action agenda enhancing the positive development of children, adolescents, families, and communities.
- Unite scholars, scientists, and practitioners using the Institute's research, education, and outreach in order to improve the life chances of all young people and contribute to the enhancement of civil society.
- Empower youth, families, and communities with an approach that emphasizes strengths and assets rather than problems and deficits.
- Promote positive youth, family, and community development through specific activities: Research about the promotion of positive youth development; conferences and symposia to foster discussions and further collaborations between academia and community-based organizations; education and training of professionals and teachers working with youth; networking that links scholars, parents, schools, and community groups; publications in both academic and nonacademic venues regarding positive youth development.

Center for Applied Child Development

URL: http://www.ase.tufts.edu/cacd_outreach

CACD is a professional development and consultation organization, offering customized in-service programs to schools and agencies all over New England. All CACD staff developers are experienced classroom teachers; we work in teams to help other teachers and administrators improve teaching and learning.

The workshops and coaching models we develop for each school reflect the unique needs and goals of those particular teachers. Here are some of the topics we are often asked to address:

Tufts University Programs & Resources for the Medford & Somerville Public Schools

Center for Applied Child Development (continued)

- Implementing a Balanced Literacy Model in Grades PreK-8.
- Differentiated Instruction: How to adapt lessons and assignments to meet the needs of a wide range of learners.
- Transitioning to Full Day Kindergarten: Designing a quality program that integrates developmental education with standards-based teaching.
- Guided Reading, Shared Reading, Independent Reading, Literature Circles, Writers' Workshop, Phonics & Word Study, etc.: What it is, how to do it, how to get started, how to manage it all!
- How to administer and analyze diagnostic reading assessments (running records, DRA, QRI, Marie Clay Observation Survey, etc.).
- How to organize and use a school Book Room and leveled classroom libraries to enhance reading instruction.
- How to improve writing instruction in K-8 classrooms (mini-lessons, conferring, reading-writing connections, use of quality literature, writing in the content areas).
- Standards-Based Reform: Helping ALL students reach high standards

Center for Reading and Language Research

URL: <http://ase.tufts.edu/crlr>

The mission of the Center is to:

- Conduct high quality research on all aspects of reading development and reading impairment.
- Develop and evaluate state-of-the-art intervention for children with developmental reading disorders.
- Provide research, teaching, internship, and tutoring opportunities for faculty, undergraduate and graduate students.
- Offer a range of teaching and tutoring services to families in the Boston area and Tufts neighboring communities (e.g., Tufts Literacy Corps).

Tufts Literacy Corps

URL: <http://ase.tufts.edu/tlc>

The Tufts Literacy Corps was established in 1997 through the Eliot-Pearson Department of Child Development and the Tufts Center for Reading and Language Research. Since then, the TLC has represented the University's commitment to public service by providing training and supervision to students who work with children in the Medford and Somerville schools. Through a partnership between Tufts and local public schools, the TLC's mission is to help every child in our host communities succeed in school.

Child & Family Web Guide

URL: <http://www.cfw.tufts.edu>

The Child & Family WebGuide describes trustworthy websites on topics of interest to parents and professionals. All the sites listed on the WebGuide have been systematically evaluated by graduate students and faculty in Child Development. These sites have been selected from thousands that are available on the Web, based primarily on the quality of the information they provide. The goal of the WebGuide is to give the public easy access to the best child development information on the Web. There are five main categories of information in the Web Guide:

Tufts University Programs & Resources for the Medford & Somerville Public Schools

Child & Family Web Guide (continued)

- Family topics and parenting
- Education and learning
- Typical child development
- Mental and Physical Health
- Resources and recreation

The WebGuide also offers an option of searching for sites that are especially relevant to a particular age group (topics by age) and it offers several features requested by parents (e.g., ask an expert sites; research news sites).

Home-School Connection Program URL: <http://ase.tufts.edu/epcd/centersHomeschool.asp>

The Home-School Connection Program is devoted to promoting the school success of Hispanic elementary school children. The project, which serves as a model of successful university-community partnership, builds a web of social support for immigrant families.

The project began in 1995 with first-graders, and now works with 16 transitional bilingual classrooms from kindergarten through fourth grade at the Edgerly Educational Center and the East Somerville School, both in Somerville, MA. A grant from the W.K. Kellogg Foundation has helped support the growth of the program. Currently, 320 families participate in Home-School Connection.

The main components of the program are assessment of children and mediation to strengthen the communication between teachers and parents. Many of the children who participate in the program have school adaptation problems due to the cultural differences in expectations between their home and school. By visiting children and parents in their homes, program mediators are able to inform parents about school activities, educational expectations, and ways in which they can support their children. Mediators also help teachers understand children's behavior in the context of their families' values.

THE FLETCHER GLOBAL ISSUE SEMINAR SERIES

URL: [HTTP://FLETCHER.TUFTS.EDU/MGEP/](http://fletcher.tufts.edu/mgep/)

The Global Issues Seminars (GIS) are an outreach program of The Fletcher School in conjunction with the Massachusetts Global Education Program. Lectures by Fletcher professors and more pedagogically-oriented sessions by local high school teachers provide an intellectually stimulating day for some 50-60 Boston area high school history teachers.

Previous seminars have focused on:

- Cold War Personalities and Their Policies
- Contemporary World Leaders
- Human Rights and Security Issues

The core purpose of the Center for Educational Outreach and Engineering (CEEEO) is to improve education through engineering. In doing so we hope to accomplish four goals:

1. Increase students' excitement for learning math and science
2. Give students skills that will make learning more enjoyable in all subjects
3. Increase technological literacy for all
4. Increase the awareness of the importance of engineering for society.

To achieve these goals, we work to:

1. Teach science, technology, and the mathematics using the engineering process as the learning vehicle
2. Teach the engineering process itself
3. Teach students how to design solutions by combining individual experiences and math/science knowledge. Some of CEEEO's programs and projects include:

Web Site

An integrated part of all projects involving K-12 students and teachers is developing and testing design, building and programming activities and detailed lesson plans for science, technology and engineering curricula. The content is available for free.

<http://www.ceeo.tufts.edu>

Student Teacher Outreach Mentor Program (STOMP)

Tufts engineering students entering local classrooms to introduce teachers and students to engineering. <http://stompnetwork.org/tufts>

Tufts Engineering the Next Steps (TENS GK-12)

A NSF funded project working with K - 12 teachers to help them infuse engineering concepts and activities into their lessons by pairing Tufts graduate and undergraduate engineering fellows with schools teachers. <http://www.ceeo.tufts.edu/gk12/>

Pre-College Engineering for Teachers (PCET)

A NSF funded professional development program for teachers to help them learn how to include engineering in their classrooms through workshops. <http://www.ceeo.tufts.edu/pcet/>

Teacher Institutes and Educator workshops

CEEEO offers a range of professional development courses for K-12 education and informal education (on-site and off-site). The content gives the participants both hands-on and theoretical experience about engineering concepts and how to implement engineering in the classroom. <http://www.ceeo.tufts.edu/services/workshops/teacherworkshops.asp>

Programs for Kids

The Center offers interactive, educational programs for students in grades 5-10 that uses the programmable RCX™ and ROBOLAB™ software. Students participate in individual and small team projects while fostering and understanding of science and physical principles. <http://www.ceeo.tufts.edu/services/legosummer/legosummer.asp>

CENTER FOR SCIENCE AND MATHEMATICS TEACHING

URL: [HTTP://ASE.TUFTS.EDU/CSMT](http://ase.tufts.edu/csmt)

Since 1986 the Center for Science and Mathematics Teaching has successfully addressed a problem that has become a national priority: improving the teaching and learning of science in the nation's schools and universities. The Center develops curricula, activities, and computer tools that allow students to participate actively in their own learning and to construct scientific knowledge for themselves. Using these materials the students learn directly from the physical world. The Center's substantial conceptual-learning research and evaluation program guides the development of materials.

Who benefits from these tools and techniques?

- Students from middle school through the university are using tools and curricula.
- The Center's curricular materials, hardware, and software are designed to serve the diversity of students who take science courses including girls and women, under-prepared students, minorities, and those who do not intend to become scientists as well as science majors and engineers.
- The Center is particularly concerned with the education of future teachers of elementary, middle, and high school and has developed successful curricula for such teachers at the undergraduate and graduate level.
- The Center provides national and international workshops for practicing schoolteachers and university professors that lead them to adopt more successful teaching methods and to better understand the subject matter. Teachers from more than forty countries have participated.

WRIGHT CENTER FOR SCIENCE EDUCATION

URL: [HTTP://WWW.TUFTS.EDU/AS/WRIGHT_CENTER](http://www.tufts.edu/as/wright_center)

The Wright Center is dedicated to the creation and sharing of novel instructional techniques and interdisciplinary resources for pre-college teachers. Through its fellowships, workshops, seminars, innovative curriculum series, and a variety of public-outreach activities, the Center provides leadership in the training and retraining of science teachers to use innovative methods to stimulate young minds.

LEONARD CARMICHAEL SOCIETY (LCS)

URL: [HTTP://ASE.TUFTS.EDU/LCS](http://ase.tufts.edu/lcs)

With a volunteer corps of more than 1000 and a staff of 85, LCS serves as an umbrella organization for 40 community service programs. LCS programs, resources, and leadership capacity have become widely recognized within the Tufts community as well as with the community organizations and agencies with whom we work. Programs include the following:

Youth Mentoring Programs

All Stars

Helps kids become active and learn about cooperation though playing sports and games with elementary-level school children in the Medford and Somerville areas.

Big Brothers

Provides a one-on-one relationship with a positive male role model for children in need.

LEONARD CARMICHAEL SOCIETY (CONTINUED)

CHILD (Caring Helps In Living with Disabilities)

Works with physically and mentally challenged children in various locations doing different fun activities.

GIRLS (Girl Interaction Raising Levels of Self-Esteem)

Encourages connections between girls and Tufts women through sports, academics, & social activities.

Kids Day

A fun-filled day for Medford/Somerville kids that includes booths, games, rides, entertainment, food and thousands of smiling faces.

PALS

Works with local children who are currently living in homeless shelters. Visiting the children and participating in arts & crafts, reading stories, and playing games.

Special Friends

Pairs Tufts students with children at the Tufts Educational Day Care Center to promote playing, laughing, drawing, reading, building, and just having fun.

Traveling Treasure Trunk

Tufts' only Children's Theater Troupe puts on amazing performances for children in local area schools, day care centers, and hospitals.

Literacy and Education Programs

Adult Literacy/English as a Second Language

Helps adults and children improve reading, writing, math and computer skills.

ASAP

Helps local high school residents prepare for the SATs and work through the challenges of applying to college.

Junior Achievement

Teaches students in grades K-6 about the basics of economics and the importance of staying in school.

Kids to College

Informs Medford/Somerville 6th-graders about college life in order to motivate them to think about the future, and help them to realize that college is attainable, provided they stay in school and work hard.

Tutoring

Connects children and young adults from the surrounding Medford and Somerville communities to instruction on a one-on-one basis. Opportunities exist for tutoring on the Tufts campus as well.

For more information about any of these programs or about other resources at Tufts, please contact the Office of Community Relations at 617.627.3780.

The Community Relations Office staff would be happy to discuss any questions you may have about resources available at Tufts University or any areas of specific interest that you do not see represented in this summary.

Additionally, we invite you to visit the “community page” of the Tufts web site to find out about events at the university that are open to the public: <http://www.tufts.edu/home/community/>

Please feel free to contact Community Relations at 617.627.3780.