

**CAITE** The Commonwealth Alliance for Information Technology Education (CAITE) is a statewide alliance with a mission to address underrepresentation in Massachusetts' innovation economy. Partnering with 15 public higher education institutions organized in four geographic regions, CAITE focuses on community colleges that serve as gateways to careers and further higher education for underserved populations. CAITE's programs include outreach and pathways activities in collaboration with initiatives focused on IT education and STEM pipeline issues. CAITE works closely with many of the CISE BPC Alliances and with the regional LSAMP and EGEP.

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**Outreach** Increasing knowledge of IT careers and changing the image of computing and IT

- Campaign to introduce IT careers and education: [www.ITforU.org](http://www.ITforU.org)
- Reached more than 21,000 students at 350+ events such as IT career days, tech fairs, computer camps, programming, robotics, and video contests
- Disseminating and replicating BPC's Artbotics throughout Massachusetts

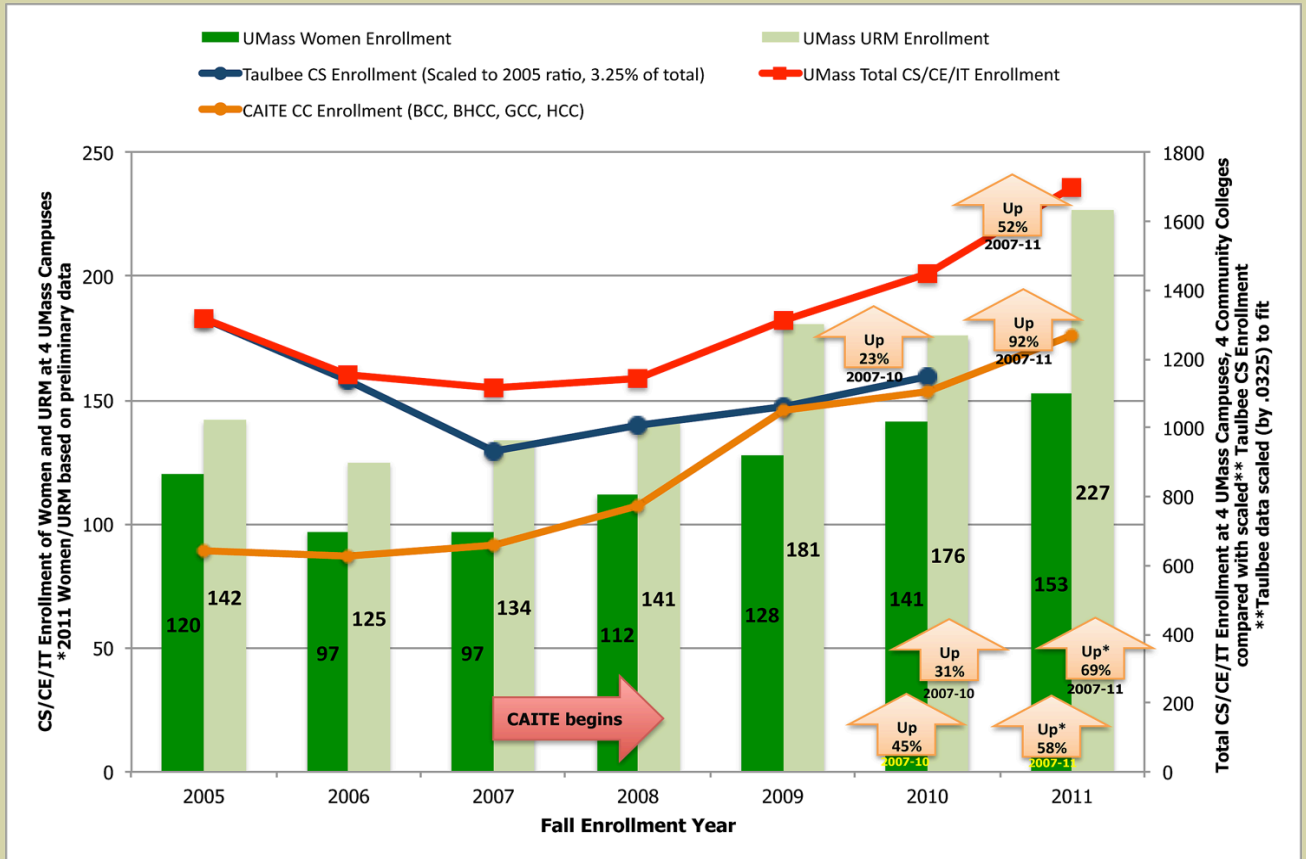


**Pathways** Creating clear and nurturing educational pathways from high school, to community college, to 4-year colleges

- Negotiating transfer agreements and curricular alignments
- Compiling and disseminating best practices for computing degree-related transfer issues
- Utilizing supplementary instruction to support students in 45 gateway/transition courses
- Engaging more than 1,200 faculty, admissions, and guidance staff in professional development
- Providing information to students via [www.ITforU.org](http://www.ITforU.org)



**Trends in CS/CE/IT Enrollment** CAITE's strategy to address underrepresentation in computing focuses on Massachusetts community colleges (CCs) where many students begin higher education. Through our outreach, recruitment, and retention efforts, we are seeing more students transfer into University of Massachusetts (UMass) computing bachelor's degree programs. As shown below, UMass enrollments are increasing at a greater rate than those at comparable institutions nationally (based on CRA Taulbee Survey). Where we have complete data, community college enrollment is up dramatically. Since CAITE began in 2007, the number of females and underrepresented minority students in UMass computing programs has increased significantly. Many of these students are transfers from CCs. CAITE's work to align 2-year and 4-year curricula and to recruit and support transfer students at UMass campuses is contributing to both growth and increasing diversity in enrollments.



**Outcomes** CAITE institutions enroll more than 170,000 students, and 3.4% of these are enrolled in IT programs. Since CAITE began in 2007, we have—

- Reached more than 21,000 students and more than 1,200 educators at 350+ events and activities;
- Seen a growth in IT enrollment at CAITE community colleges of 64%; 78% in transfer programs;
- Observed an increase in URM of 88% at community colleges and 60% over all CAITE partners;
- Implemented supplemental peer instruction (SPI) for 45 courses on 7 campuses, which increased retention and student participants' average letter grades.

[www.caite.info](http://www.caite.info)  
[www.ITforU.org](http://www.ITforU.org)

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