



Educational Pathway Strategies For IT Students Lessons Learned by BATEC

(Boston Area Advanced Technology Education Connections)

**National Career Pathways Network
Cincinnati, Ohio**

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What is BATEC

Boston Area Advanced Technological Education Connections

- A National Science Foundation Grant which develops and promotes a coordinated, self-sustaining, regional education and workforce development system for IT that will attract a diverse student population to IT careers, promote lifelong learning of IT skills and support the workforce needs of the region's IT companies and departments.
- BATEC is engaging the region's secondary school teachers, and community college and four-year faculty in professional development for new and emerging information technologies and curriculum development focused on the design and delivery of a new IT education and workforce continuum.
- BATEC is also providing students with the academic, technical, and professional skills necessary to design, develop, support and manage the hardware, software, multimedia, and integrated systems used in our workplaces.

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THE BATEC MODEL

CONCEPT:

Increase student interest in IT by structuring multi-dimensional pathways connecting K-12, Community Based Education Organizations, and Higher Education to promote opportunities for postsecondary success

GOALS:

- PERSONALIZE students' college awareness experiences
- CUSTOMIZE IT education options
- CONNECT at various levels of educational opportunities
- PROVIDE TOOLS & RESOURCES to create and support a sustainable system

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THE BATEC MODELS

Model 1: Early Engagement Programs

- Mini-Technology College Fairs
- Regional Technology College Fair

Model 2: Pathway Connections

- Community College Fair
- Bridge-To-Community College

Model 3: College & Career Readiness

- Accuplacer Assessment
- Tech Apprentice Program

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EARLY ENGAGEMENT PROGRAMS



MINI-TECHNOLOGY COLLEGE FAIRS:

- **Objective:** Targeted recruitment events focused on local “feeder” technology high schools
- **Activity:** Community colleges structure hands-on technology workshops, classes and college application workshops
- **Partners:** TechPrep, (6) BATEC Community Colleges, Student Ambassadors
- **Outcomes:** 2007-08 - 500 students participated

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EARLY ENGAGEMENT PROGRAMS



REGIONAL COLLEGE FAIR:

- **Objective:** Convene regional event to build student awareness about the college & career process and connect them with all IT focused area colleges
- **Activity:** Conduct workshops on Financial Aid, College Admissions, IT Career Exploration and One-on-One College Advising session
- **Partners:** 25 Admissions and financial aid experts, Microsoft Evangelists, Community based college prep programs, BATEC team
- **Outcomes:** 1000 IT students from 23 high schools participated; 45 regional IT focused colleges

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PATHWAY CONNECTIONS

COMMUNITY COLLEGE FAIR:

- **Objective:** Connect undecided seniors with Community Colleges
- **Activity:** Community colleges host joint event to inform students about community college option and opportunities; college advising on on-the-spot registration
- **Partners:** TechPrep, (5) BATEC Community Colleges, Student Ambassadors
- **Outcomes:** 2007-08 - 300 students participated

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PATHWAY CONNECTIONS

BRIDGE-TO-COMMUNITY COLLEGE:

- **Objective:** Structure partnership between Community Based Technology Centers and Community Colleges to create technology pathways for adult learners.
- **Activity:** Provide adult learners with two credit-bearing technology courses combined with English and Mathematics tutoring. Provide assessment and academic counseling to the enrolled students to facilitate full college matriculation.
- **Partners:** 3 Community Colleges partnered with 3 Community Based Orgs
- **Outcomes:** 78 enrolled over 2-years, 57 completed one semester, 51 completed two semesters

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COLLEGE & CAREER READINESS



Accuplacer Assessment:

- **Objective:** Structure program to address high remedial course-taking by incoming Freshmen
- **Activity:** BATEC IT Academy @ Bunker Hill Community College offers freshmen-level IT course using Prentice Hall MyITLab coupled with Math and English assessments
- **Partners:** Bunker Hill Community College and (6) area high schools
- **Outcomes:** 2007-08 – over 120 high school senior participants

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COLLEGE & CAREER READINESS

Tech Apprentice Program:

- **Objective:** Structure strong internship program for technically talented high school students to promote interest in IT careers
- **Activity:** 7 week summer paid internship program that places students in advanced technology positions with area companies
- **Partners:** TechBoston (Boston Public Schools), BATEC Business Advisory Council, Boston Private Industry Council; Boston-area high schools
- **Outcomes:** Summer 2008 placed 75 students in paid technology jobs; placements included database, web design, Q&A, cyber safety

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FOR MORE INFORMATION

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