#### Mentoring and Persistence of Low-Income First Generation College Students in STEM fields

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### Recruit and Retain with Mentoring

- Programs and initiatives promoting recruitment
- Programs promoting retention or persistence
- Mentoring is a Key Factor
  - Distinguishes students who get interested
  - Distinguishes students who stay



# A focus on gender, race, class > alternative pathways



## Vocational/Technical Entry Points





Different definitions of college

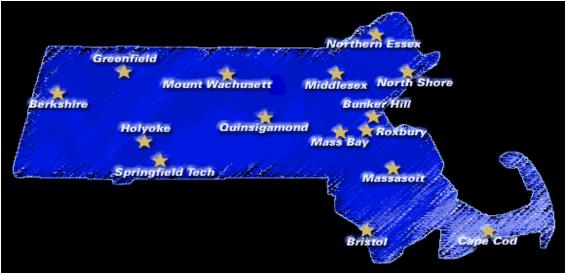
Inspired by peers or faculty in community college setting

Credits do not transfer...need extended window of time

Packard & Babineau (in press); Babineau & Packard (2006)

# Community College Pathways





College mentors get students "on track"; information access and quality uneven

College mentors inspire students to continue

Non-college supporters: resources



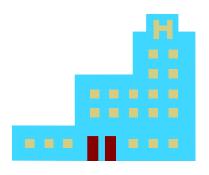
Computer Systems Engineering Technology (Associate's Degree)



Computer Engineering (Transfer)

# Workplace Case Studies

- Combining work and school- major challenge
- Tuition reimbursement policies facilitate
- Supervisor and co-worker facilitate







#### Summary: Key Factors in Persistence



Time and Money=Window



Success in Challenging Courses





Mentoring – In the field and from Home or Work

# What do you mean by *Mentoring*?

For what goal?

#### Mentoring: Two main functions

- Socio-Emotional
  - Encouragement, role modeling, inspiration
- Instrumental
  - Academic, College, Career mentoring
    - Skills or Competencies (expertise-driven)
    - Facilitate with Resources (nonexpertise)

Mentor Roles that increase Instrumental-expertise: Coach, Develop/Challenge, and Sponsor

Higgins & Thomas (2001); Laden (1999); Packard (2004-5)

## Multiple Mentors: Advisory Board

- "Chair" of Board: mainly coach, encourage
- Insider or Teammate
  - Essential "Step ahead" or Peer Coaches
- Developer-invests in competencies
  - In field, whether a professor or supervisor
  - Challenge student to do better work
- Sponsor connections to opportunities (jobs)
- "Sage advice" guide has positive balance or spiritual/energy resources

Packard (2003)

# **Contexts of Mentoring**









You can't choose your family, but you can choose your mentors.

# A Healthy Dose of Entitlement





#### Program and Policy Implications

- Mentoring programs emphasize instrumental and strategy
- Advising for advisors
- College-level academics in vocational programs
- Increase relevant work opportunities
- Degree designs that facilitates transfer
- Governmental aid timeframe and programs

Please visit www.mtholyoke.edu/~bpackard for references or email bpackard@mtholyoke.edu for additional information.