# A Comprehensive Model for Promoting Opportunity and Facilitating Academic Success at a Selective University

presented at the Michigan-MAEOPP 28th Annual Conference May 8-11, 2002, Bellaire, MI

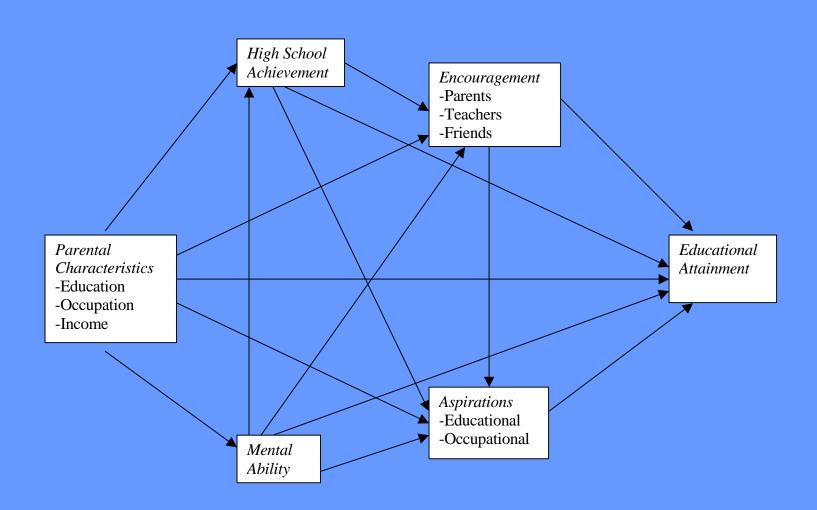
William Collins

University of Michigan

# Challenges

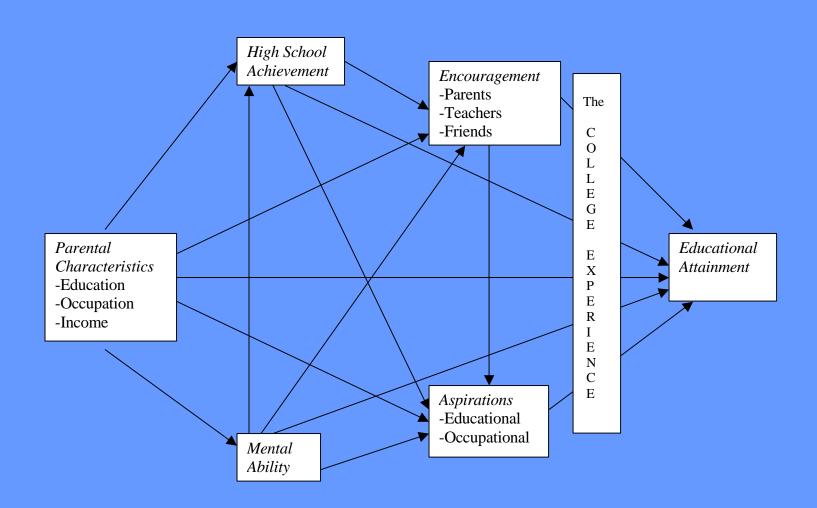
#### General Model of Educational Attainment

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# The College Experience

- Adjustment to new academic demands
- New level of competition
- Independence
- Self-regulation motivation, effort, persistence
- Expectancy
- Self-confidence and self-esteem

# **Educational Inequalities**

- Kozol's Savage Inequalities
- Conley's Honky
- According to Educational Trust:
  - -science teachers in racially isolated schools have less educational training
  - -high poverty high schools have more underqualified teachers
  - -poorer school districts have fewer Math resources (textbooks, calculators, computers)
  - -poorer school districts offer fewer advanced math and science courses

# **Educational Inequalities**

- Minorities are less likely to own a computer and have internet access at home
   (NTIA, 1998)
- Schools with larger minority student populations have fewer computers and less Internet access than other schools (Coley, et al, 1997)
- Teachers in minority, poor, or urban schools are less likely to ask students to solve complex problems.

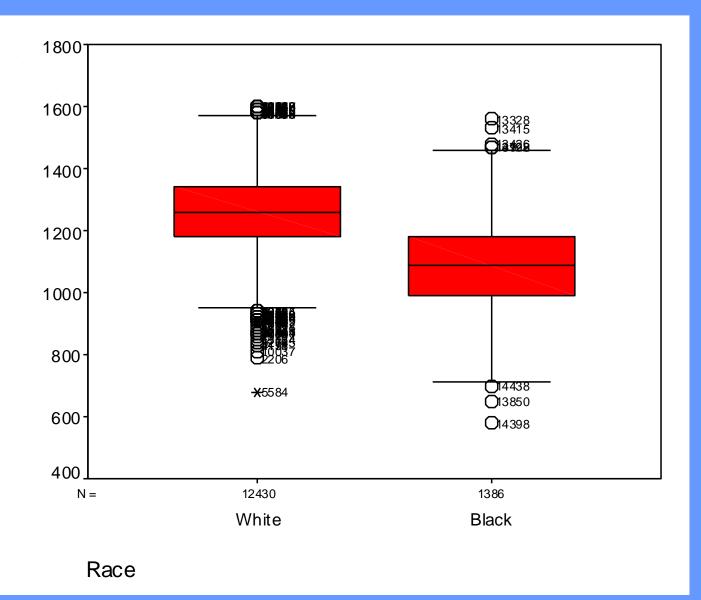
# Risky Effects

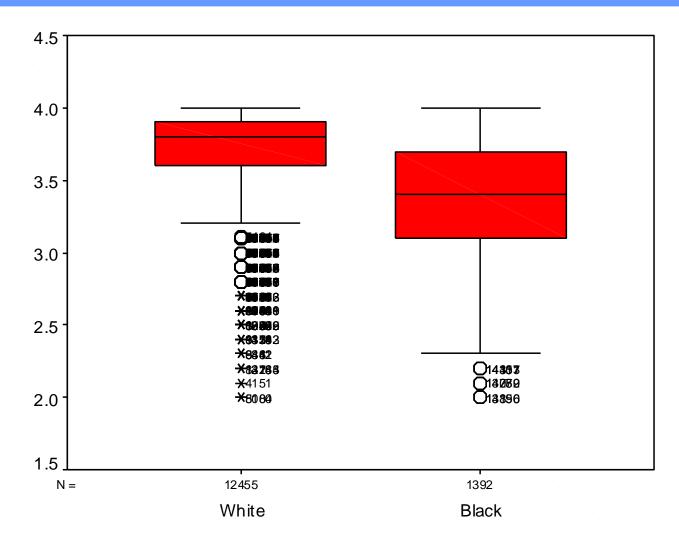
- Statewide 950 schools failed to meet MEAP achievement standards.
- According to the Detroit News, 37% of Michigan's "failing schools" located in southeast Michigan.
- Nearly half the schools in Detroit were "at-risk" for state accreditation because more than 75% of their students were not passing state mandated tests (MEAP).

# The Achievement Gap

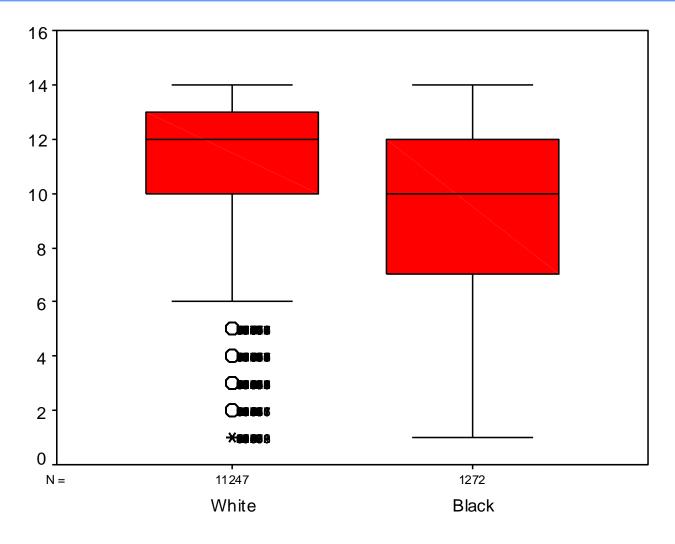
 Blacks score one standard deviation lower than whites on standardized achievement tests

 Fewer minority students enroll in advanced mathematics courses in high school





Race



Race

## **Academic Momentum**

The best predictor of future academic success is past academic success.

 Academic momentum serves as a driver of continued academic success.

## Power of the HS Curriculum

- Adelman (1999) has shown that the quality high school curriculum is the single most important factor contributing to college success and ultimately graduation.
- The impact of the intensity and quality of high school curriculum is even more pronounced for African American and Latino students.

# Factors Affecting Achievement

- Household Income
- Parental Education/Occupation
- Quality of Prior Schooling/Competition
- Prior Levels of Achievement
- College "Climate"/ "Fit"
- Campus support and resources

# Adjustment Challenges

- New college students need to be open to novel experiences, including different ways to learn and to grow
- This often includes reflecting on just how they learn best, but this is not something they do naturally
- Students may need to develop academic self-understanding

#### **Student Transitions:**

- Faculty expectations
- Realistic self-appraisal
- Appropriate work ethic
- Managing independence
- Discarding old habits and relationships while developing new ones

## A Related Issue

- There are many students with outstanding potential for college success, but who do not have the advantages of affluence that are known to be related to graduation.
- These students are often highly motivated to succeed and will make significant contributions to society if afforded access to college and early support.

#### The Retention Issue

- 63% of 4-year college students earn a bachelor's degree by age 30 (within 11 years of high school graduation)
- 6-year graduation rate is about 50%
- Mean "time-to-completion" of bachelor's degree is about 5 years
- source: C Adelman, (1999) Answers in the Toolbox, US Department of Education

How can we bolster academic achievement and social adaptation among college students so as to promote academic success, retention, and graduation; particularly for students affected by the achievement gap?

# Comprehensive Model

- -Support Network students, faculty, staff
- -Strategies for Goal Attainment
- -Skill Building Opportunities
- -Leadership Opportunities
- -Mentoring

# Intervention Strategies

## Intervention Models

- Early Intervention (DAPCEP/KCP)
- Community (Favorable "climate")
- Involvement (Living Learning Programs)
- Faculty Contact (Mentoring)
- The Comprehensive Model

## Philosophical Orientation

- Importance of time-on-task
- In the confrontation between the rock and the stream, the stream always wins not through strength of force, rather through perseverance.
  - -sustained effort smoothes rough edges
  - -polishing of diamonds in the rough

# The Role of Metacognition

- The feeling of knowing (pre-retrieval)
- Knowing that you know
- Structure a framework for academic learning
- Develop academic self-understanding
- Self-efficacy: feeling competent and confident about what you know

# The Metacognitive Process

- Plan
- Self-monitor
- Self-regulate

# Comprehensive Structure

# A Comprehensive Model

- Summer Bridge Program
- Summer Orientation
- Developmental Academic Advising
- Intensive Course Instruction
- Tutoring
- Study Groups
- Mentoring Program

# Summer Bridge Objectives

- To develop academic abilities in the content areas (i.e., bridge knowledge gaps)
- To develop knowledge about faculty expectations
- To develop insights about one's self, (particularly goals, strengths, weaknesses)
- To develop a familiarity with the campus environment
- To develop a support network

# Summer Bridge Structure

- Intensive Academic Development
  (English, Math, Computer & Study Skills)
- Developmental Advising(Decision-making, Conflict Management)
- Establishment of Support Network (Faculty, Staff, Students)
- Student Development Activities
  - Build Confidence in Realistic Setting
  - Gain Personal Insights

## **Summer Orientation**

- Placement Testing
- Course Selection
- Academic Advising
- Introduction to Support Network

# **Academic Advising**

- Developmental Advising
- Academic Progress Monitoring System (Mid-term Estimate, Student Progress Report)
- Problem-Solving Strategies(Roommate, finances, peer expectations)
- Academic-Career Explorations (freshmen interest groups)
- Personal Adjustment Issues (existential crises)

## Intensive Course Instruction

- Extended Meeting Time
- Smaller class size
- Collaborative Learning
- Active Learning
- Focus on Effectiveness Strategies
- Departmental Testing/Grading

## Student Development

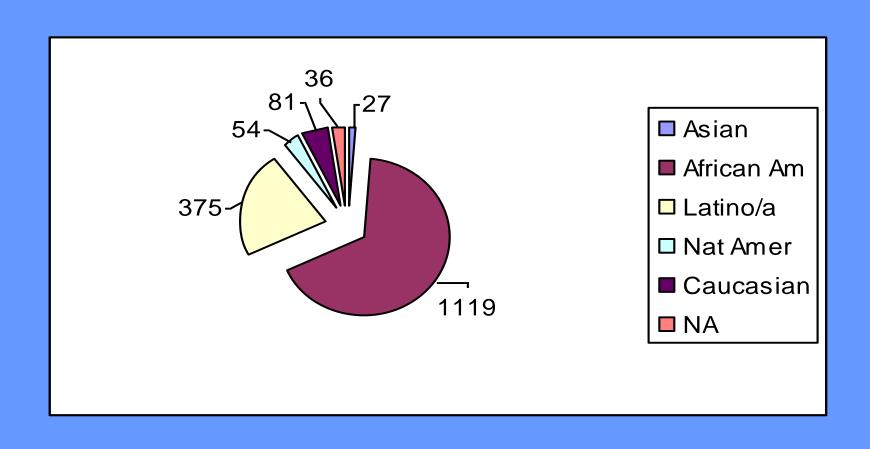
- Role Modeling
- Study Groups/Collaborative Learning
- CSP 100 Academic Socialization
- Enrichment Activities
- Socio-cultural events
- Development Workshops

# Additional Programs

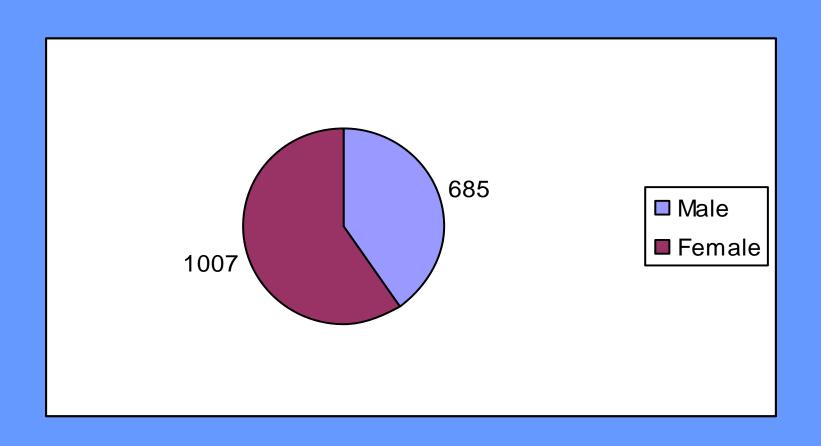
- Tutoring
- Mentoring Program
- Study Groups
- CSP 100 Academic Socialization
- Summer Scholarship Program
- Campaign Excel

## **Outcomes**

# CSP Students by Ethnicity (Fall, 2001)

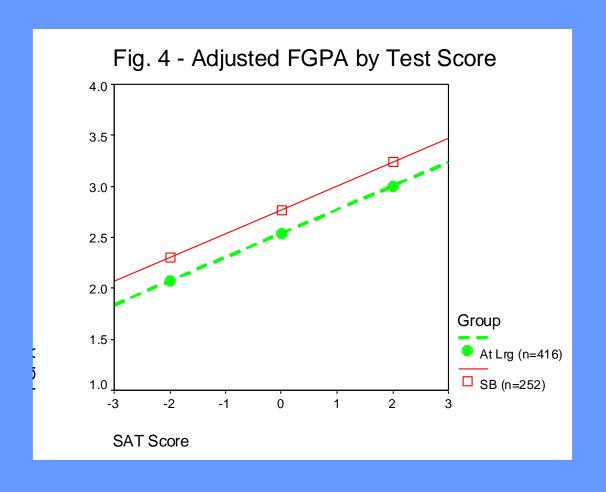


# CSP Students by Gender (Fall, 2001)



## **U-M Bridge Enrollment**

- **2001 135**
- **2000 123**
- **1999 83**
- -1998 81
- **1997 78**
- **1996 60**
- **1995 68**
- **1994 47**



# The Summer Bridge Effect

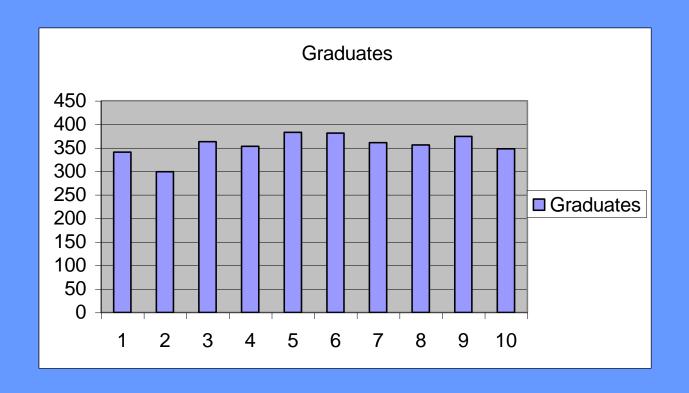
#### Coefficientsa

		Unstandardi <i>z</i> ed Coefficients		Standardi zed Coefficien ts		
Model		В	Std. Error	Beta	t	Sig.
1	(Constant)	.984	.278		3.535	.000
	HSGPA	.306	.071	.146	4.330	.000
	NATSAT	.150	.042	.137	3.557	.000
	County household income '95	1.197E-05	.000	.112	3.846	.000
	Bridge	.312	.087	.135	3.588	.000
	DMSEXF	-6.20E-02	.057	032	-1.093	.274

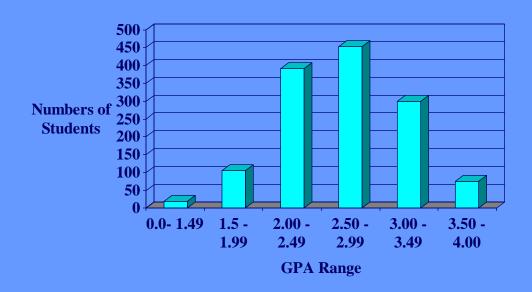
a. Dependent Variable: TERMGPA

#### **CSP Performance Measures**

- Graduation Rate: 6-yr: 70%; overall: 76% (Ten-year total: 3,546)
- Overall GPA: 2.6
- New Freshmen: 505
- Seniors: 523
- All CSP Students: 1,790
- Advising Contacts: 7,016
- Intensive Course Enrollment: 1,102
- Students in Good Academic Standing: 96%



# CSP Students Grade Distribution Fall 2001



### Impact on Students

- 95% report that they feel they have gotten a head start on other incoming freshmen
- 88% recommend attending Bridge to friends
- 85% made friends they expect to keep
- 85% are more encouraged about their ability to handle the academic demands of college.
- 75% learned new and useful study skills in Summer Bridge.

#### Conclusion

A comprehensive program that includes summer development, intensive instruction, systematic advising, and student development not only promotes opportunity, but also facilitates academic achievement, retention, and graduation in college students.

#### **Achievement Status**

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## http://www.lsa.umich.edu/csp/

University of Michigan

