

Enhancing Inclusion in Computer Science

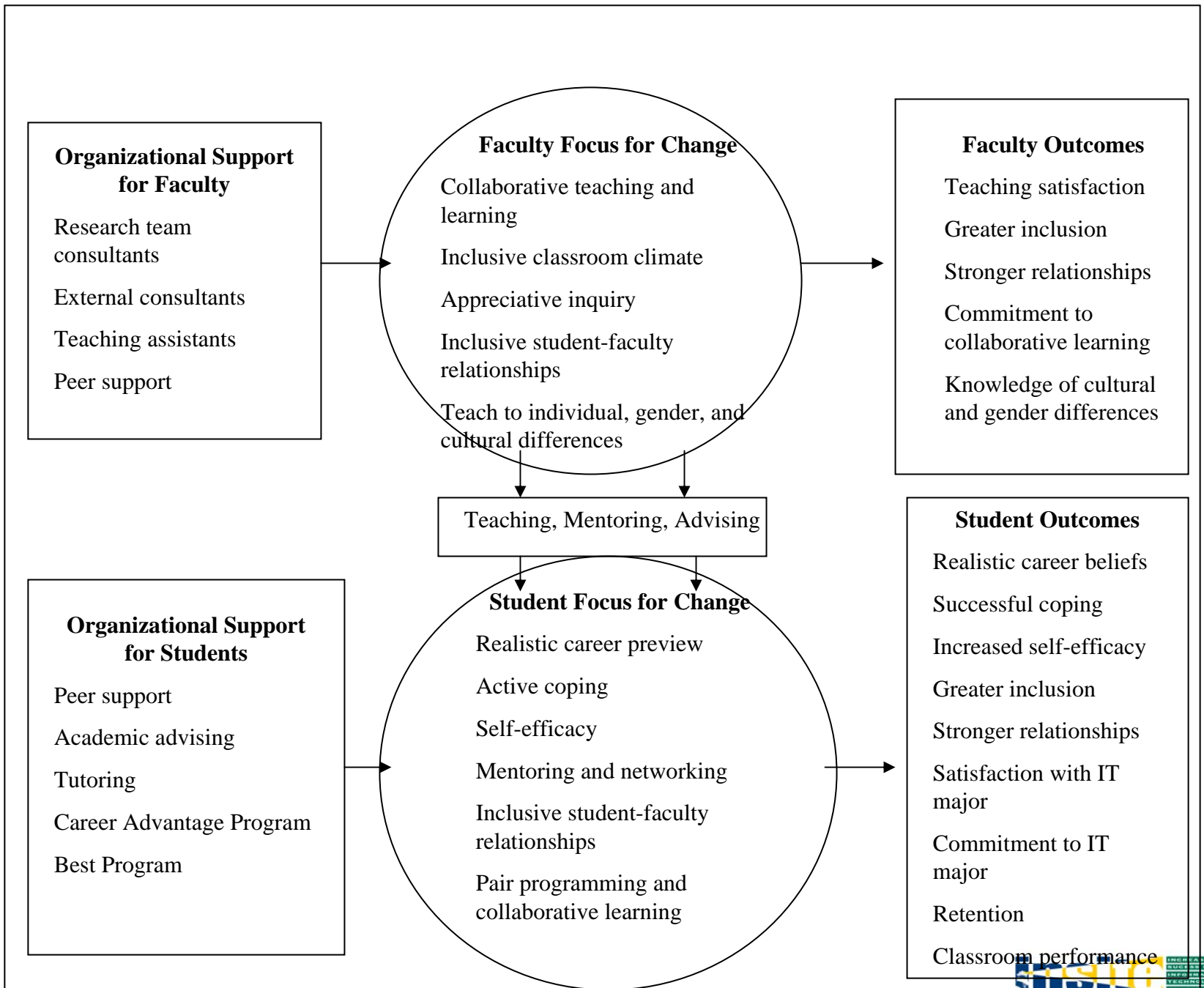
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Overview

- Four year implementation project (2004 – 2008)
- Focus on changing faculty and students in CS
- Implemented at Old Dominion University and Norfolk State University

Activities to Date

- Design and implement intervention
INcreasing **S**uccess in **I**nformation **T**echnology
Education (INSITE)
 - Train CS faculty
 - Train CS students
- Create and pilot test measurement instruments
- Create base line, five year historical data base of retention
- Collect first of four panels of data



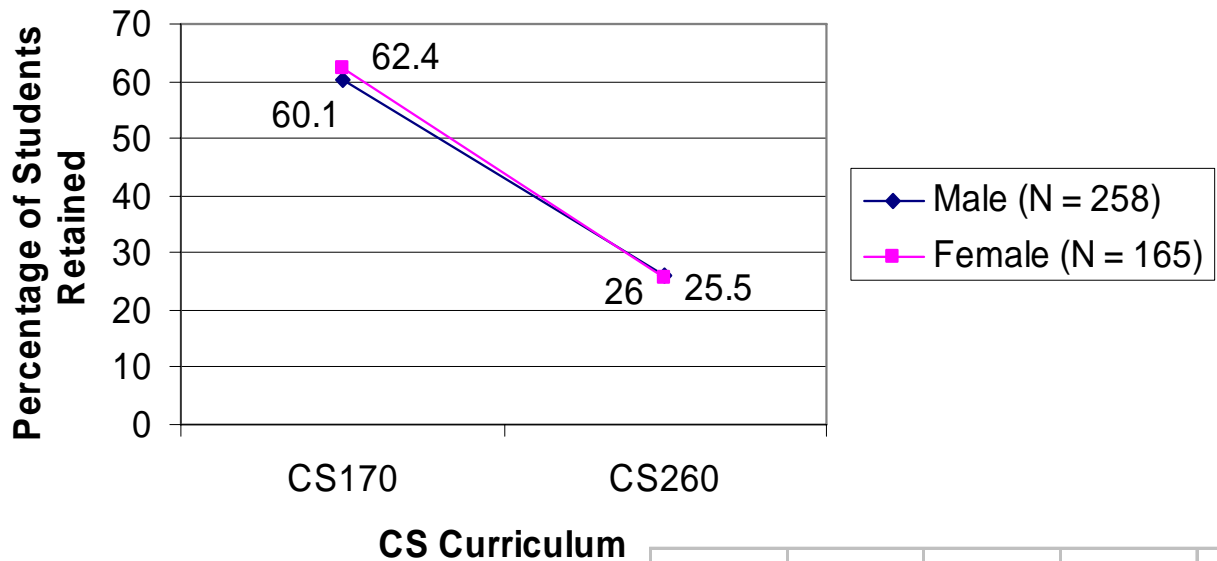
Enhancing Faculty Strengths

- Inclusive teaching practices
- Appreciative inquiry
- Collaborative learning
- Inclusive student-faculty relationships

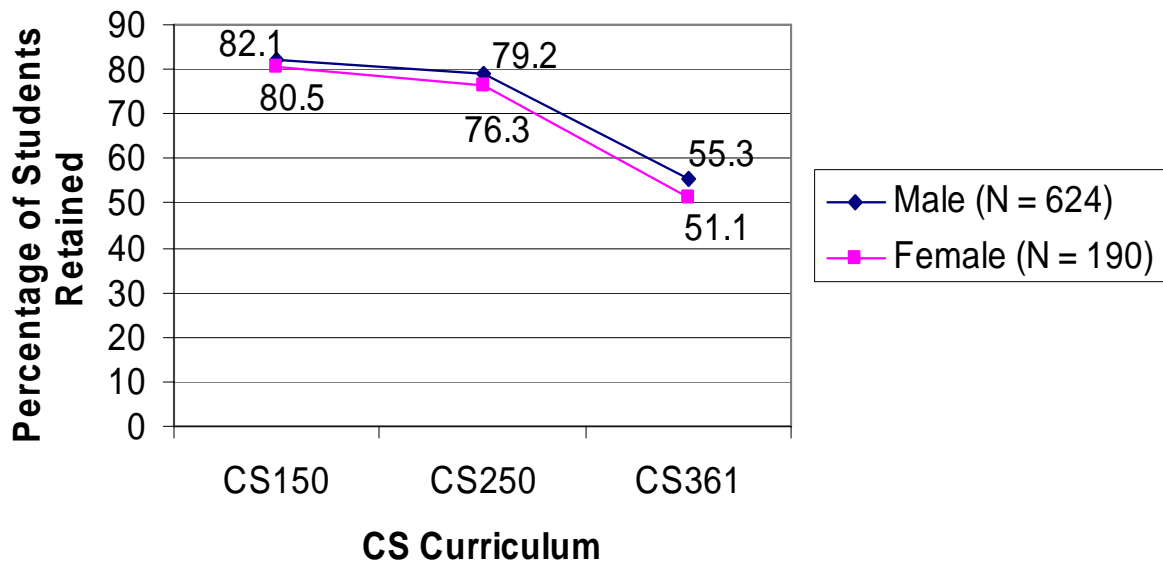
Enhancing Student Strengths CS101

- Frequently asked questions
- Realistic preview of CS major and career
- Role models and mentors
- Relationship networking
- Stress and active coping skills
- Collaborative learning and pair programming
- Inclusive student-faculty and peer relationships

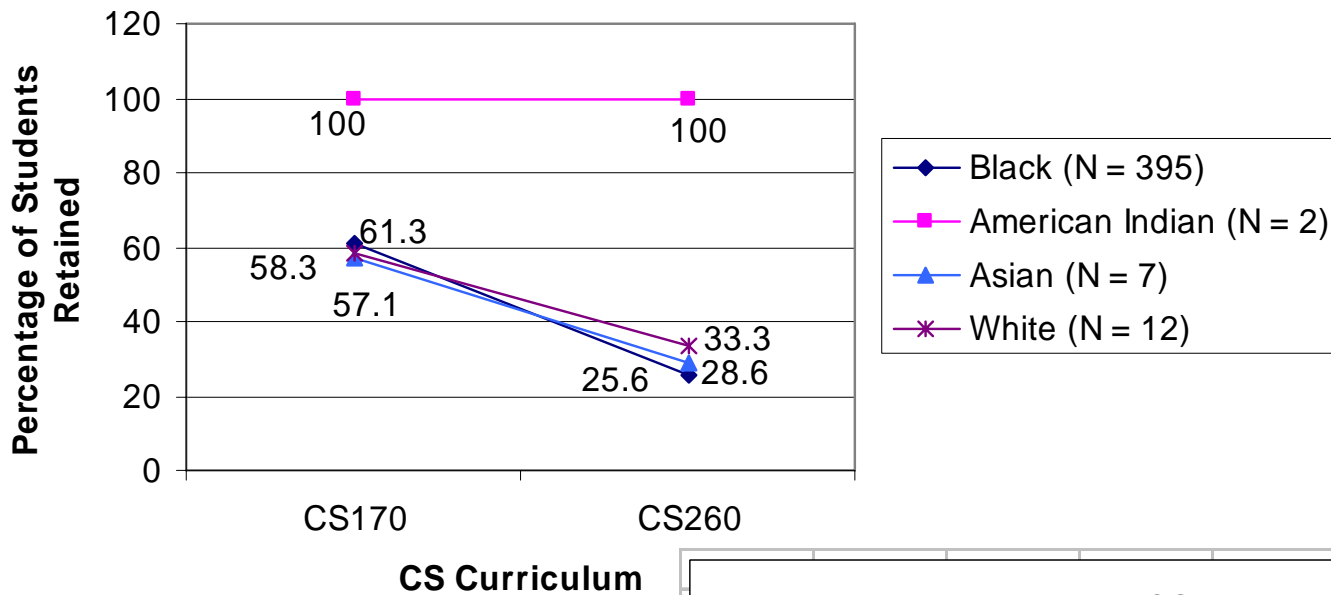
NSU CS Retention by Gender



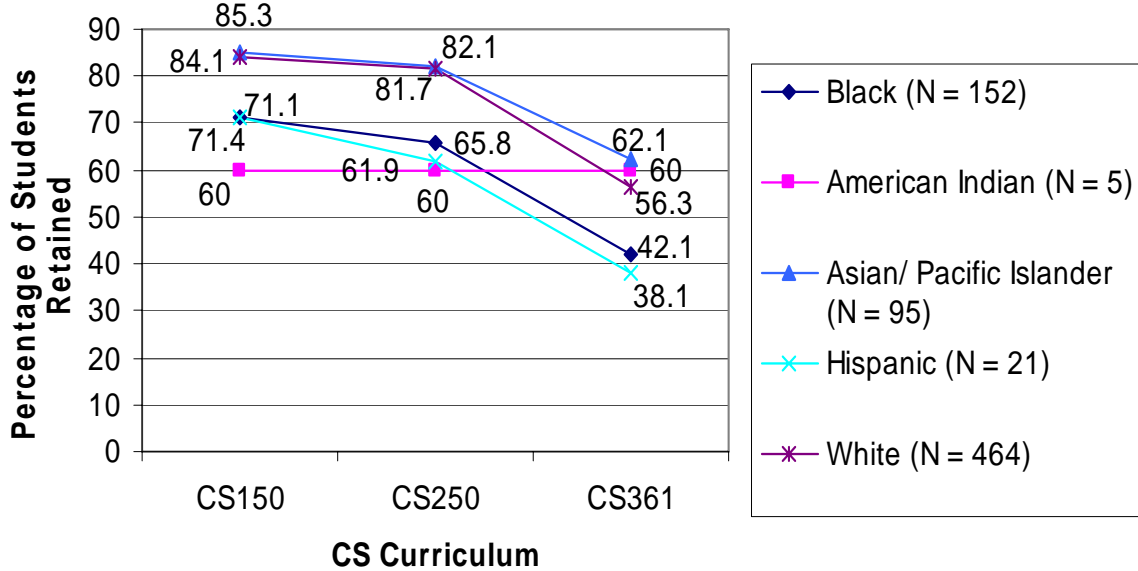
ODU CS Retention by Gender



NSU CS Retention by Race



ODU CS Retention by Race



Fall 2005 Response Rate

- Total response rate: 283/350 (80.8%)
- CS major response rate: 130/166 (78.3%)
- Norfolk State University
 - Total response rate: 102/129 (79.1%)
 - CS response rate: 69/89 (77.5%)
- Old Dominion University
 - Total response rate: 181/221 (81.9%)
 - CS response rate: 61/77 (79.2%)

Next Steps

- Collection of 2nd panel of data spring 2006, 3rd panel of data fall 2006, 4th and last panel of data spring 2007
- Repeat CS101 in fall 2006
- Evaluate impact of intervention components on commitment and retention
- Disseminate research results and training materials at conference in Virginia Beach in 2008