Using Supplemental Instruction as a High School Success & College Access Strategy
Presenters

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Our Supplemental Instruction Discussion

- College access strategy for high school students;
- Lessons learned from implementation;
- Outcomes of participants
Office of College Access & Success Programs

- Serves 3,210 6th-12th grade students
- African-American: 68%; White: 9%; Hispanic/Latino: 11%; American Indian/Alaskan Native: 2%; Other: 10%
- 54% Female, 46% Male
- Military Connected: 12%
- 85% Low-income & First-generation
- 28 Full-time Staff, 78 Part-time Staff
- Supplemental Instruction (3 years)
Performance of High School Students on the State Assessment Test

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<tr>
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<tbody>
<tr>
<td>Target Schools</td>
<td>32%</td>
<td>42%</td>
</tr>
<tr>
<td>North Carolina</td>
<td>59.8%</td>
<td>59.6%</td>
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</tbody>
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Source: North Carolina Department of Instruction-School Report Cards, 2015
## ACT College Readiness Benchmarks

<table>
<thead>
<tr>
<th></th>
<th>Percent Met ACT College Ready Benchmarks</th>
<th>Percent Met UNC Minimum Benchmarks</th>
<th>Percent Met UNC Minimum Benchmarks (Economically Disadvantaged)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Target Schools</strong></td>
<td>13%</td>
<td>38%</td>
<td>31%</td>
</tr>
<tr>
<td><strong>North Carolina</strong></td>
<td>18%</td>
<td>60%</td>
<td>n/a</td>
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Source: North Carolina Department of Instruction-School Report Cards, 2015
<table>
<thead>
<tr>
<th></th>
<th>Postsecondary Enrollment %</th>
<th>Postsecondary Economically Disadvantaged %</th>
<th>Postsecondary College Access Programs %</th>
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</thead>
<tbody>
<tr>
<td>Target Schools</td>
<td>51%</td>
<td>32%</td>
<td>75%</td>
</tr>
<tr>
<td>North Carolina</td>
<td>66%</td>
<td>43%</td>
<td>43%</td>
</tr>
<tr>
<td>U.S.A.</td>
<td>66%</td>
<td>49%</td>
<td>49%</td>
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</tbody>
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Source: NC Department of Public Instruction, 2013; National Center for Education Statistics 2013-Table 302.30.
What academic challenges do students have during their freshman year in college?
Methods of Identifying High Risk Students

- Absenteeism
- Behavior
- Course
Traditional Programs for High Risk Students in K-12

- Exceptional Children Program
- Social Worker, Psychologist
- In School Suspension
- Mentoring Program
- Remediation (Spring Semester)
Why Supplemental Instruction?

- Improve student learning
- Improve student confidence
- Increase college readiness
Fidelity Implementation Challenges

Alignment
- Target historically difficult courses
- Regularly scheduled
- Out-of-Class
- Faculty supported
- Training of SI Leaders
- Already successfully completed the course

Modifications
- Led by (near) peer student (Modify)
- SI course taken with the same instructor (No)
- SI Leader sits through the class again (No)
- Side-by-side with their (near) peers (Modify)
- Offered to all enrolled students (Modify)
- Voluntary (No)
- Anonymous (No)
21st Century Community Learning Centers

Upward Bound

Upward Bound Math & Science
21st Century Community Learning Centers

Foundations of Algebra
- Students placed in course prior to Algebra I
- 3 teachers courses
- All students enrolled in the teachers courses eligible to participate (n=300)

After-School
- 2 high schools
- Spring semester
- 1 hour sessions
- 3 days per week
- Participants (n=15-40)

Challenges
- Voluntary
- No Transportation
- Extra-curricular activities
- No participation @1 school
- Principal buy-in
Upward Bound

English

- Student grouped based on gender
- Offered to all students (n=30)
- Residential Program

Summer (Residential Program)

- 5 weeks
- 2 SI Leaders (male/female)
- 3 days per week
- 1 hour sessions

Challenges

- Students not offered SI felt excluded (work-study)
- Unanticipated consequence (residential, male involvement)
- Positive outcome - Increased male engagement
- Positive outcome - Increase male performance in summer (recognition)
Upward Bound Math & Science

Science

- Students enrolled in Science
- Offered to rising 11th graders only (n=14)

Summer
5 weeks

- 5 weeks
- 1 SI Leader
- 3 days per week
- 1 hour sessions

Challenges

- Correlating outcomes during academic year
- Measuring long-term success
Student Outcomes

- Improved student engagement in learning
- Improved student confidence
- Increased college readiness
SI Participant Perspective

- The **hands on activities** made learning science **fun** and **interactive**.
- The conversations in SI made it **easier to discuss** and **learn** the science topics.
- The SI session provided **helpful insight** into science topics.

Nicholaus Amos
SI Leader Perspective

While facilitating SI, I've learned that students enjoy learning when we implement teaching methods that are:

- engaging
- encourage open thought
- and provide timely helpful feedback

In my sessions, students were able to:

- **Observe**: the importance of learning the new skill & how to perform the new skill
- **Collaborate**: with one another & myself by practicing the new skill collectively
- **Practice Independently**: by reviewing what they've just learned & implementing the new skills

This allows the SI Leader to guide the student in their academic journey, and for the student to connect more effectively with the taught material.

Carla West

English/Chinese
SI Leader Perspective

- SI Sessions demonstrate an alternative learning environment that counters the traditional classroom setting.

- SI Sessions promote interaction between students that positions them in an active role in their learning.

- Students are more confident in drawing conclusions via SI sessions that encourage independence through indirect instruction.
What’s Next?
Lessons Learned

- School buy-in important
- Conflict w/ staff multiple duties (many interventions/summer/observations)
- Continue testing model for scaling
GEAR UP (Pilot)

8th Graders @ Four Middle Schools

Offered to targeted students 20/school  
n=100

Near Peer (College Students)

Math or Reading
Capacity Building

- Data Tracking Systems-Across Programs
- Secure Funding
  - Staffing/Sl Mentor
  - Follow-up
  - Focus groups
- Post-secondary Follow up
  - Continued usage of strategies?
  - Enrollment in SI @postsecondary institution?
Thank You

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