EVOLVING MATHEMATICAL NEEDS IN PATHWAYS FOR STUDENTS...

...IN TWO-YEAR COLLEGES

Susan S. Wood, Reynolds Community College, SWood@Reynolds.edu
8 + 5
45% of undergrads
> 50% of minority undergrads
46% of mathematics enrollments!
A UNIQUE MISSION!
Affordable access to a degree or credential...
leading to a family-sustaining wage
Transfer

Career-Technical

Continuing Education

College Readiness

Programs
Transfer Programs

Careers

STEM Careers

Careers in the Social and Behavioral Sciences

Careers in Teaching

and many more
$2500
Amount by which graduates of career-technical associate degree programs outearned bachelor’s degree graduates

$6000
Amount by which graduates of career-technical associate degree programs outearned other associate degree graduates
# The Context

<table>
<thead>
<tr>
<th>Jobs of the Future</th>
<th>Changing Demographics</th>
</tr>
</thead>
<tbody>
<tr>
<td>Completion/Educational Attainment</td>
<td>Declining State Funding (and Higher Tuition)</td>
</tr>
<tr>
<td>Decreasing Enrollments</td>
<td>Post-recession Economy</td>
</tr>
</tbody>
</table>
Impact on Two-Year Colleges
Critical Areas

- Expanding Access
- Increasing Completion
- Leveraging Transfer
- Strengthening College Readiness with K-12
- Preparing a 21st Century Workforce
<table>
<thead>
<tr>
<th>Transfer Programs</th>
<th>Career-Technical Programs</th>
</tr>
</thead>
<tbody>
<tr>
<td>• College Algebra</td>
<td>• Applied Technical Mathematics</td>
</tr>
<tr>
<td>• Precalculus</td>
<td>• Technical Mathematics</td>
</tr>
<tr>
<td>• Calculus</td>
<td>• Mathematics for Allied Health</td>
</tr>
<tr>
<td>• Statistics</td>
<td>• Fundamentals of Mathematics</td>
</tr>
<tr>
<td>• Mathematics for Liberal Arts</td>
<td></td>
</tr>
<tr>
<td>• Mathematics for Teachers</td>
<td></td>
</tr>
</tbody>
</table>
CURRENT ISSUES

Developmental Education Redesign
CURRENT ISSUES

Placement

Developmental Education Redesign

Role of Statistics
CURRENT ISSUES

College and Career Readiness
Role of Intermediate Algebra
Placement
Developmental Education Redesign
Role of Statistics
Greater student services support to optimize success
85% of VCCS students who complete 24+ credits in their first year and transfer to a VA 4-year public college receive a bachelors degree.
Promising Curricular Practices
Two Examples
EXAMPLE:
Stackable Credentials
Career Pathway
Nurse Aide
Practical Nurse
Associate Degree, Nursing

→ CNA
→ LPN
→ RN

...
EXAMPLE:
Embedded Certificates
Associate of Applied Science in Maritime Technologies

Certificates

- Marine Electrical
- Marine Mechanical
- Maritime Technologies
- Maritime Welding
Thank you

Start Here!

Counseling & Advising Services

Thank you