Defining Mathematics Pathways

- Victoria College’s goal is to accurately identify necessary coursework for the most common transfer institutions and programs of study, eliminating the possibility of students completing unnecessary courses.
- Mathematics courses, especially Foundations of Mathematical Reasoning and Intermediate Algebra, are continually evolving to ensure math content is aligned to specific programs of study.

Student Advising

- The advising department identified the most common transfer institutions and programs to identify transfer pathways for all current and prospective students.

Student Enrollment in Mathematics Pathways

- Academic Foundations Division faculty worked with the advising department to build a placement chart that accurately placed students in the appropriate math pathway based on their TSI score and major.
- All first-time-in-college students are advised to begin their math pathway with Learning Frameworks in the first semester.
- Acceleration through foundational courses is a major initiative for Victoria College. With the implementation of the New Mathways Project curriculum, Non-STEM foundational students take one course and STEM foundational students take at most two courses prior to gateway math.
- Victoria College also offers eight-week courses and emporium courses.

Math Readiness Success Points

<table>
<thead>
<tr>
<th>Year</th>
<th>Success Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>2013</td>
<td>194</td>
</tr>
<tr>
<td>2014</td>
<td>189</td>
</tr>
<tr>
<td>2015</td>
<td>242</td>
</tr>
</tbody>
</table>

Students Who Pass First College-Level Math Course

<table>
<thead>
<tr>
<th>Year</th>
<th>Success Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>2013</td>
<td>624</td>
</tr>
<tr>
<td>2014</td>
<td>648</td>
</tr>
<tr>
<td>2015</td>
<td>669</td>
</tr>
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</table>
Opportunities for Student Success Instruction
- All incoming freshmen with fewer than 13 hours enroll in Learning Frameworks.
- Learning Frameworks covers research and theory of psychology of learning, cognition, and motivation; factors that impact learning; and the application of learning strategies.
- Students identify their strengths and weaknesses as strategic learners.

Learning Outcomes
- Investigate the human condition
- Examine institutions across time
- Examine processes across cultures
- Use and critique alternative explanatory systems

Measuring Impact
- Students complete a five-part portfolio project, take various quizzes and exams, and/or participate in activities and discussions that focus on the application of empirical and scientific methods.
- Activities explore the behavior and interactions among individuals, groups, institutions, and events to examine the impact on society and culture.
- Academic Foundations maintains high standards for mastery of learning outcomes. Instruction is face-to-face and online hybrid to enhance student performance and success.
- Curriculum-specific professional development is conducted over the summer.

Opportunities for Professional Development
- Professional learning opportunities are facilitated through the Center for Academic and Professional Excellence (CAPE), the college’s teaching and learning center.
- Faculty may earn three levels of certification and stipends by participating in Operation: SEAL the DEAL professional learning boot camps.
- As faculty and staff become more engaged, boot camp content is tailored to the challenges shared by faculty and staff.

- In addition, the Academic Foundations Division hosts a summer academy for all foundational faculty to discuss best practices for foundational students, approaches to student engagement, and changes to the emporium lab.