Scheduling for Completion

BRIEFING ON “PATHWAYS TO CAREERS: IMPROVING STUDENT SUCCESS THROUGH DATA ANALYTICS”

Laura Rittner, Executive Director, OACC Student Success Center

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Ohio Department of Higher Education
2016 Innovation Grant Award

**Lead Institution & Partners:**
- Lakeland Community College
- Ohio Association of Community Colleges
- Ad Astra Information Systems

**Community College Partners:**
- Belmont College
- Central Ohio Technical College
- Clark State Community College
- Eastern Gateway Community College
- Edison Community College
- Hocking College
- Lorain County Community College
- Marion Technical College
- North Central State College
- Northwest State Community College
- Owens Community College
- Rhodes State College
- Rio Grande Community College
- Southern State Community College
- Stark State College
- Terra State Community College
- Washington State Community College
- Zane State College

**University Partners:**
- Central State University
- Cleveland State University
- Shawnee State University
- Youngstown State University
How Course Demand Analytics Can Help

- Improve student access to required courses
- Increase student credit hour load
- Decrease unproductive course registrations
- Reduce class cancellations
- Reduce late class additions
- Improve course fill rates/resource optimization
Stark State Case Study

- Average fall student credit hour loads from 7.71 to 8.18 – a 6% increase
- Improved velocity to completion: the average time-to-completion reduced by .2 years
- Increased tuition yield: $72.19 per student, or $1.3M of additional tuition is generated per term

Sections were strategically added and removed from the Fall and Spring schedule to respond to enrollment changes
Enrollment Ratio
All HESI Database Schools

157 Institutions

- **UNDER-FILLED COURSES**: 41%
- **BALANCED COURSES**: 32%
- **OVERLOADED COURSES**: 25%

Due to rounding and data abnormalities, data is not intended to equal 100%

Spring 2016 Higher Education Scheduling Index (HESI™)

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Optimizing Course Offerings
Platinum Analytics

- 60% BALANCED COURSES
- 30% UNDER-FILLED COURSES
- 10% OVERLOADED COURSES

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Low Resource Efficiency/Low Course Access

Below industry average performance on both axes. Significant opportunity exists on both efficiency and course access fronts. Existing faculty and space should be sufficient to meet your students’ needs with targeted realignment of course offerings and room/time assignments. Policy is recommended to ensure progress.

Course Access

- **Off-Grid Waste**
  - Goal: 5%
  - Like Inst.: 15%
  - All Inst.: 16%

- **Overloaded Course Ratio**
  - Goal: 10%
  - Like Inst.: 32%
  - All Inst.: 25%

- **Addition Candidates Offered**
  - Goal: 5%
  - Like Inst.: 6%
  - All Inst.: 5%

Resource Efficiency

- **Enrollment Ratio**
  - Goal: 85%
  - Like Inst.: 81%
  - All Inst.: 78%

- **Classroom Utilization Standard Wk**
  - Goal: 50%
  - Like Inst.: 50%
  - All Inst.: 47%

- **Seat Fill Utilization Enrollment**
  - Goal: 75%
  - Like Inst.: 62%
  - All Inst.: 62%
Velocity to Completion: Impact on Time to Degree in Years

<table>
<thead>
<tr>
<th>CREDIT HOURS PER DEGREE</th>
<th>AVERAGE CREDIT HOUR LOAD</th>
<th>CREDIT HOUR INCREASE PER STUDENT</th>
<th>GOAL CREDIT HOUR LOAD</th>
</tr>
</thead>
<tbody>
<tr>
<td>120</td>
<td>13.0</td>
<td>5%</td>
<td>13.65</td>
</tr>
</tbody>
</table>

On average, institutions can increase student credit hour loads by 5-10% with a modest amount of schedule refinement to meet student needs.

Variables for the Velocity to Completion Calculation may be changed using online calculators at: [http://accesstocompletion.com/velocity/](http://accesstocompletion.com/velocity/)
Ad Astra Campus Engagement

1. **Benchmark**  
   Fall 2016  
   • Where are we?  
   • Where to improve?

2. **Schedule Team**  
   Fall 2016  
   • Senior Leaders Sponsor  
   • Working Group  
   • All Colleges Represented

3. **Set Goals**  
   For Fall 2017  
   • Improve Seat Fill (+3%)  
   • Time to Complete (-5%)  
   • Credit Hour Load (+7%)  

4. **Measure**  
   Spring 2017  
   • Identify Metrics  
   • Get Data  
   • Create Information

5. **Communicate**  
   Spring 2017  
   • Relevant Information  
   • Relevant Person  
   • Relevant Time

6. **OPTIMIZE**  
   Fall 2017, Spring/Fall 2018  
   • Adjust Schedule  
   • Track Progress  
   • Repeat!
Questions?

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