

The Instructional Capacity Playbook

Realigning Resources to Meet Changing Enrollment Patterns

Academic Affairs Forum

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Realigning Resources to Meet Changing Enrollment Patterns



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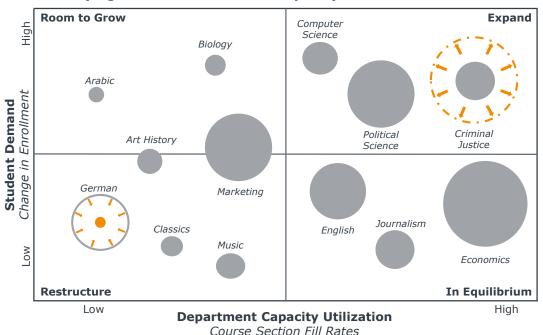




- 2 Track and Predict Changing Student Demand
- 3 Increase Capacity in High-Demand Areas
 - Reallocate Underutilized Capacity
 - Reduce Curricular Bottlenecks
 - Better Balance Faculty Workloads

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A State of Flux



Identifying Enrollment Demand-Capacity Mismatches

Uncertainty Raises Tensions on Campus

Institutions Can No Longer Plan Around Sustained Annual Growth

Negative Impacts of Uneven Growth



Faculty

- Larger classes
- More adjuncts
- Unequal workloads
- Rising pressure to improve output
- Unwanted competition among high- and lowgrowth units



Students

- Harder to get the right classes at the right times
- Popular majors increasingly difficult to enter
- Complex requirements and options hard to navigate



Institutions

- Unable to keep up with areas of high demand
- Rising cost per student due to underutilized capacity
- Resentment of administrators struggling to manage tight resources

Faculty are working harder and fear that quality is declining

Students are paying more but struggling to graduate in their desired major Universities are turning away students but struggling to cover rising costs

New Metrics to Measure Instructional Capacity



From Untested Assumptions to Actionable Analyses

Old Metric	Untested Assumption	New Analysis
Student-Faculty Ratio	A lower ratio suggests higher quality; the average number of students per faculty reflects the typical student experience	Student credit hours per instructor (by rank) at department level
Standard Course Load	Number of courses is a better measure of workload than the size of courses; most faculty teach the standard load	Percentage of students in each class size
Standard Workload	All faculty should strive for the same balance of teaching, research, and service; all faculty work should be counted equally for promotion and tenure	Total faculty contributions
Average Class Size	Smaller classes have better learning outcomes; most students are in average-size classes	Class size distribution
Maximum Section Size	Maximum section size is based on pedagogical necessity	Section fill rate analysis

New Metrics to Measure Instructional Capacity



From Untested Assumptions to Actionable Analyses

Old Metric	Untested Assumption	New Analysis
Minimum Credits Required for Degree	Most students will complete the degree with minimum credits	Curricular complexity
Previous Term Course Enrollment	Enrollments do not change significantly from like term to like term	Registration trend analysis Cross credit matrix/ major migration
Classroom Utilization (hours per week)	There aren't enough rooms for all courses	Room type bottlenecks (by size, technology, location)
Major/Degree Production (by program or department)	The primary purpose of every department is to produce graduates of its major	SCH production (for majors, non-majors, gen ed courses) by course and by level; "native junior" graduation rate ¹

 i.e. graduation rate of students who started in the major after they have reached junior status, three years, or 60 SCH. Measuring graduation rate at this point reduces the influence of general education and service courses on results.



Enhancing Student Learning in Large Courses

Introducing the Course Completion Playbook



Reducing DFW Rates While Preserving Learning Outcomes and Academic Rigor



Assessment





Instruction



Pre- and Post-Course Support





Improving Student Outcomes in Critical Gateway Courses

Tuesday, October 10 1-2 PM ET



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PROMISING PRACTICES

Curricular Interdependency

Analyze the number of majors vs. service enrollments

Predicted Course Demand

Use interdependency, admissions data, and projected and current enrollment by major to predict

Multi-term Registration

Allow students to register for courses a full year in advance

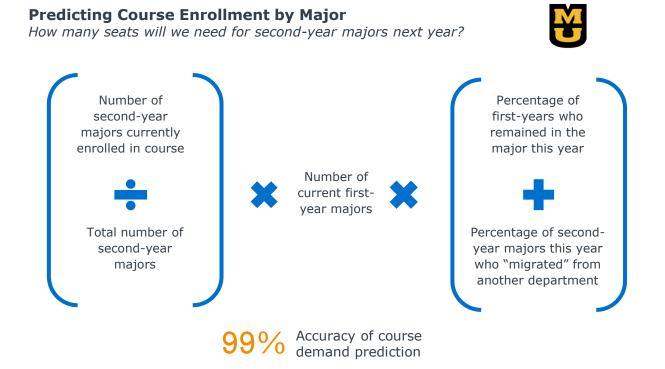
Central Course Wait Lists

Allow an unlimited number of students to wait list themselves for each course

Track and Predict Changing Student Demand

Predicted Course Demand

Combine Historical Data with Enrollment Trends to Predict Course Fill Rates







2 Track and Predict Changing Student Demand

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PROMISING PRACTICES

Enrollment Growth Funding

Assign funding and faculty lines to units based on course-level enrollment

Overflow Course Capacity

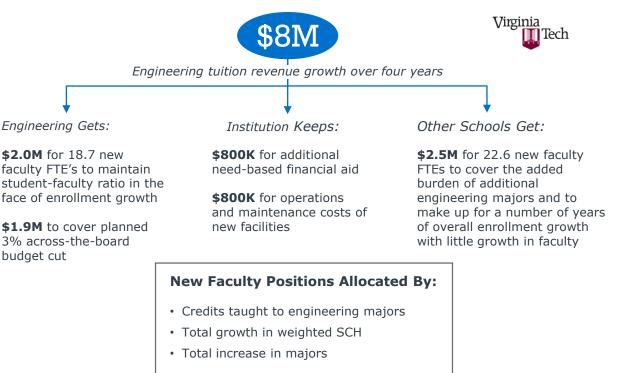
Create capacity for high-demand courses with summer/winter, accelerated, and online options

Faculty Line Reassignment

After faculty retirement, reallocate portion of salary not used for new hire to a central strategic fund

Enrollment Growth Funding

In Times of Growth, Make Central Investments in Quality





- 4 Reallocate Underutilized Capacity
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PROMISING PRACTICES

Section Consolidation

Analyze total enrollments across all sections of each course to determine whether fewer sections could accommodate all demand

Small Course Consolidation

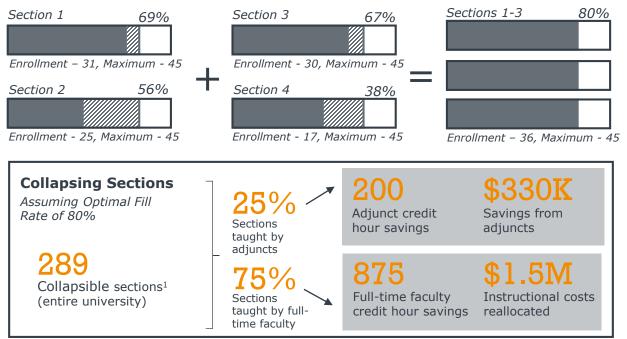
Target very small courses such as independent study, research, or internships for consolidation to improve capacity and provide peer discussion opportunities

Section Consolidation



Significant Gains from Combining Sections Within a Single Course

Lower-Division Anthropology Course





- Increase Capacity in High-Demand Areas
- Reallocate Underutilized Capacity
- 5 **Reduce Curricular Bottlenecks**
 - Better Balance Faculty Workloads

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INSTITUTIONAL CHALLENGE

Complex prerequisite pathways and non-degree-granting tracks

lead to under- and overenrolled courses and excess credits, while reducing options for students.



Diagnose areas of curricular over-complexity to simplify rigid prerequisite pathways and sub-degree tracks.



PROMISING PRACTICES

Section Consolidation

Reduce or eliminate curricular "tracks" that are not degree granting, cancelling lowenrollment courses while allowing higher-enrollment courses to fulfill elective requirements

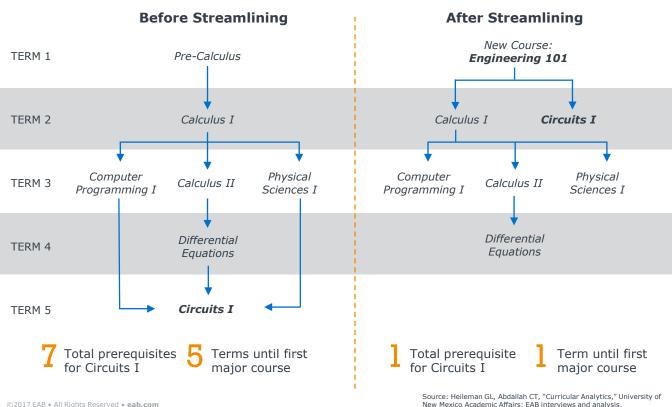
Small Course Consolidation

Analyze degree plans to determine identify complex pathways or those that rely too heavily on one prerequisite; one strategy is to add a program-specific introductory course

Streamlined Prerequisite Pathways



Leveraging Curricular Bottleneck Analysis to Reduce Complexity



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- Reallocate Underutilized Capacity
- Reduce Curricular Bottlenecks
- 6 Better Balance Faculty Workloads

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INSTITUTIONAL CHALLENGE

Changes in student demand, as well as growing research and service requirements, result in **unbalanced faculty workloads.**



Increase transparency, flexibility, and unit accountability to support departments in developing more balanced workload allocations.



PROMISING PRACTICES

Departmental Teaching Calculation

Track credit-hour production and funded releases by department in a dashboard that allows deans to compare units side by side

Faculty Activity Dashboard

Track faculty activities that are not part of the standard workload for tenure and promotion (e.g. editing journals, advising students)

Differentiated Instructional Roles

For units with additional teaching needs, create full-time, non-tenure-track roles for instructors

Departmental Teaching Calculation



Benchmark Course Offerings to Standard Workload, Less Releases

	Dept. A	Dept. B	Dept. C	Dept. D	Dept. E
Tenured/Tenure-Track FTE					
x Standard Course Load					
- Approved Course Releases					
= Theoretical Capacity					
# of Courses Taught					
Courses per FTE					
SCH per FTE					
Adjunct Share of SCH					

EAB Support in Academic Resource Allocation



Additional Resources Within and Beyond the Academic Affairs Forum



Breaking the Trade-Off Between Cost and Quality

Sustaining Mission in an Era of Constrained Resources



Smart Growth *Running the Academy by the Numbers*

Distribution of Course Types	Direct Costs per Credit Hour, by Type
1205	82M
744 1	1294
1 3 /01	11/11/1

Optimizing Institutional Budget Models

Strategic Lessons for Aligning Incentives and Improving Financial Performance



Revitalizing the Program Portfolio

Elevating Academic Program Performance and Strategic Alignment

Academic Performance Solutions (APS)

APS' new web platform provides high-level key performance indicators as well as snapshot analyses of program performance and costs across colleges, departments, instructors, and courses.

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