

Data Tools to Support Institutional Excellence: Teaching Productivity

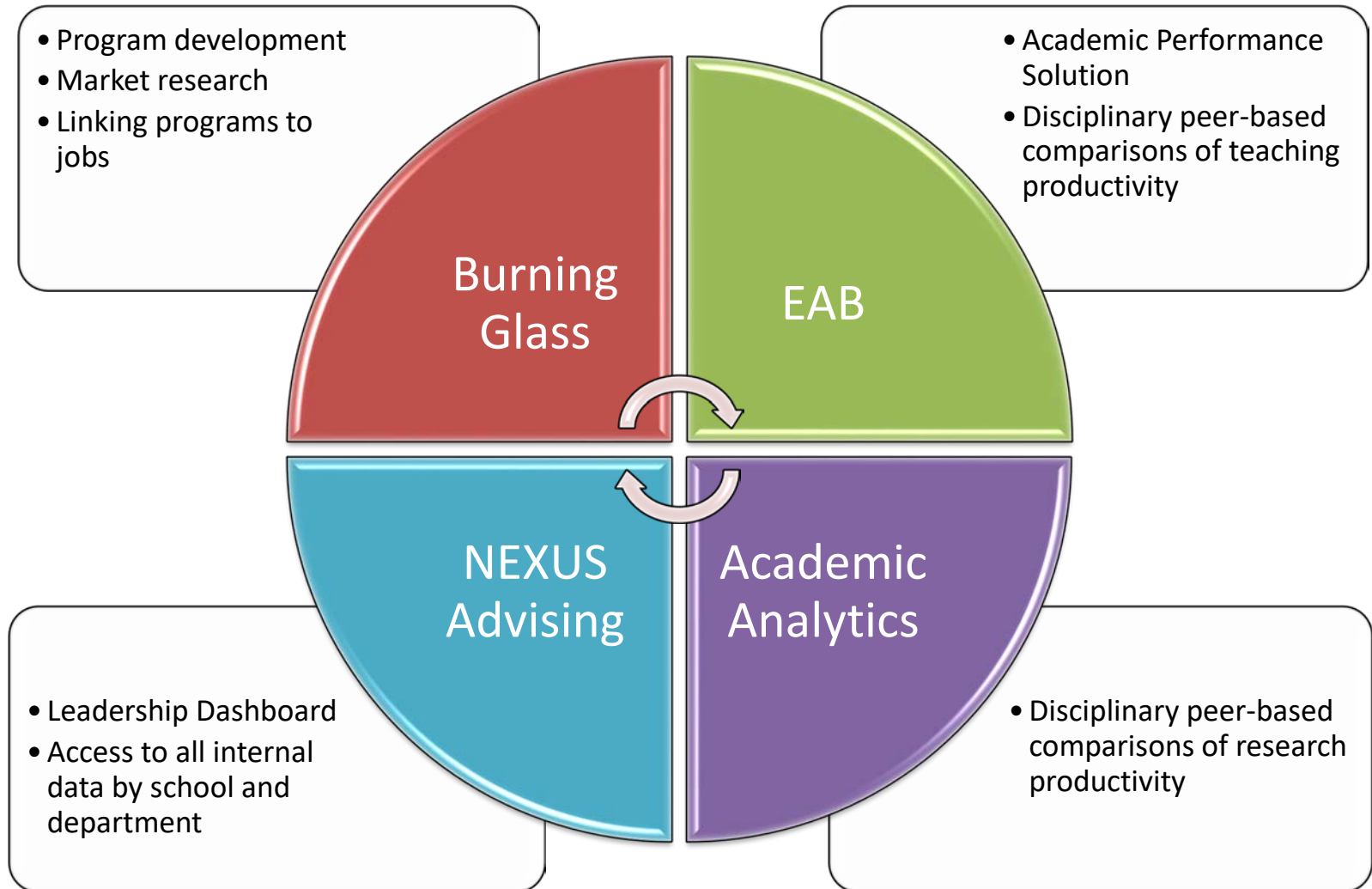
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Associate Vice President for Budget Management and Institutional Research

December 10, 2019

UConn

Suite of Academic Data Tools





APS Analytics

Download the [APS Platform User Guide](#) to get started

[College Scorecard](#) | [Department Scorecard](#) | [Students](#) | [Courses](#) | [Programs](#) | [Instructional Staff](#)

Key performance indicators to guide academic and operational decision-making.

Track Performance Across Academic Units

College and Department Scorecard highlights trends and comparisons on key College and Department metrics like enrollment, class utilization, cost per credit, hour, and other key indicators.

Resource Utilization Capacity Constraints

- **Students & Courses** pinpoints opportunities to improve course and section level completion rates, class utilization, etc.
- **Instructional Staff** exhibits the differences in teaching workload and overall metrics like completion rates and seat utilization between different types of instructors.
- **Costs** highlights the different cost categories that impact total costs and cost per credit hour.

See [Help & Training](#) for resources on using APS Analytics to improve efficiency and make data-informed decisions.



APS Benchmarks

Download the [Benchmarks User Guide](#)

[Cohort Profile](#) | [Institution KPIs](#) | [Enrollment](#) | [Course Completion](#) | [Course Planning](#) | [Other Departments](#)
[Instructional Workload](#) | [Instructional Cost](#) | [Configuration Summary](#)

Department level performance comparisons to customized cohorts of APS members.

Visit [Webinars](#) to watch the APS Benchmarks Boot Camp training series on using benchmarks.

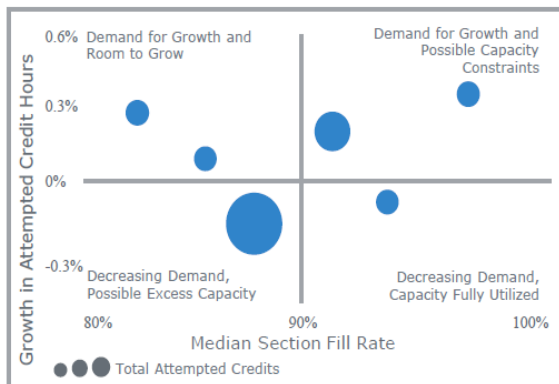
Academic Performance Solution

- EAB's tool is the Academic Performance Solution

Course Planning



How can we align our resources to meet institutional and student needs?



Student Progress



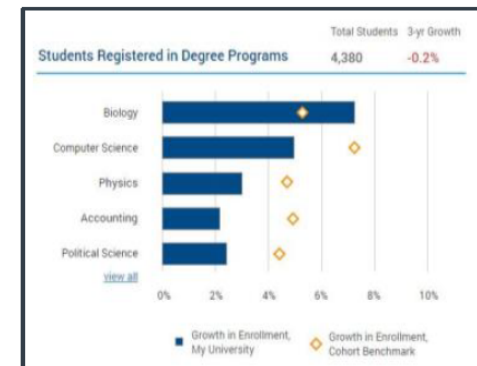
How can we redesign our courses or programs to improve student outcomes?



University Operations



How can we identify opportunities for resource reallocation and program growth?





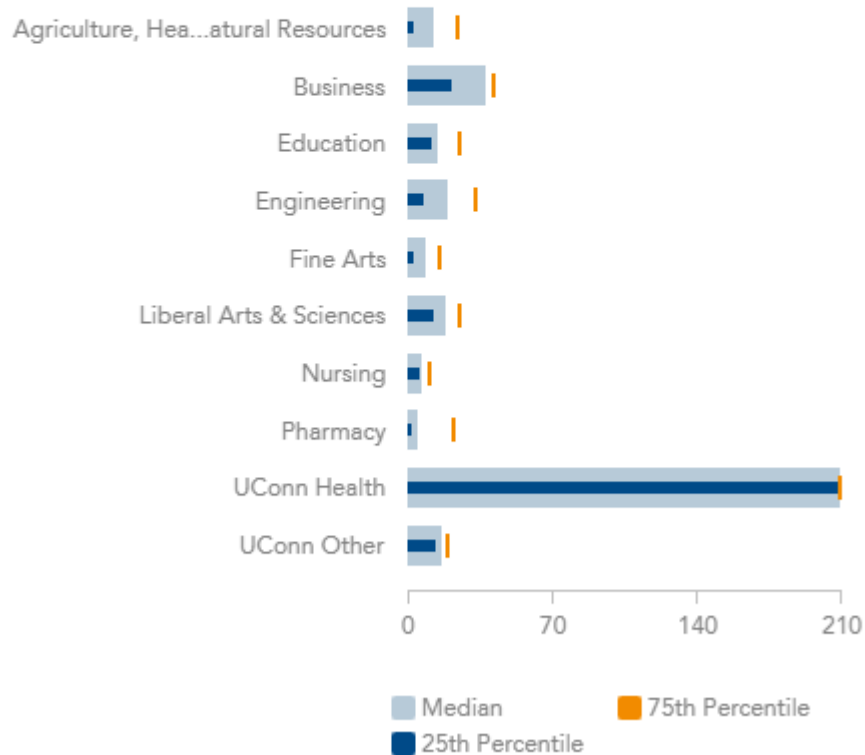
Courses

The Student Attribute dashboard filters do not apply to the reports in the Courses section.

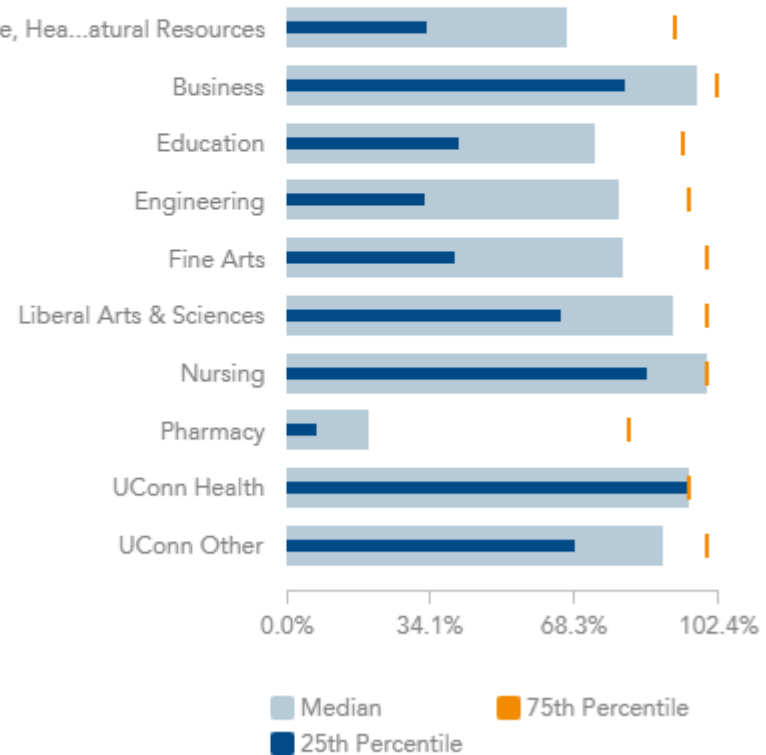
Class Size	Median Section Class Size	% of Classes with Size <10
	18	24.3%

Seat Utilization	Median Section Fill Rate	# of Collapsible Sections
	89%	364

Percentile Distribution of Class Sizes by College



Percentile Distribution of Section Fill Rates by College





Students

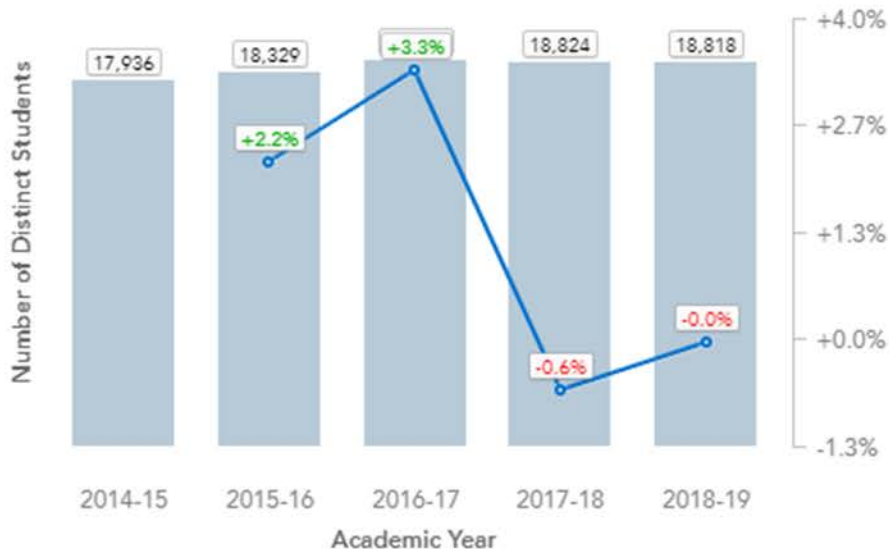
Enrollment

of Students Enrolled
18,818
 3-Yr Trend Rate
-0.3%

Total Attempted SCH
258,253.0
 3-Yr Trend Rate
-0.0%

Trends in Student Enrollment

Student Enrollment is based on the unduplicated headcount of students registering for coursework.

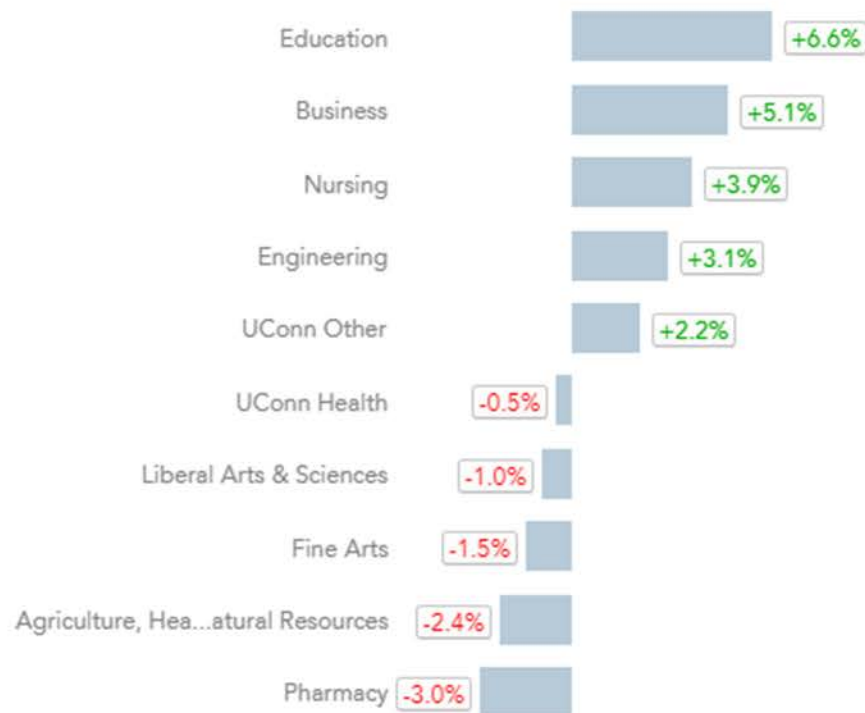


■ Number of Distinct Students
 ▲ Annual Percent Change [▲, %]

[View Student Coursework Enrollment Trends By College](#)

3-Yr Growth in Attempted SCH by College

Click on the college name to view growth in Attempted SCH by Department



[View Attempted SCH Trends By College](#)

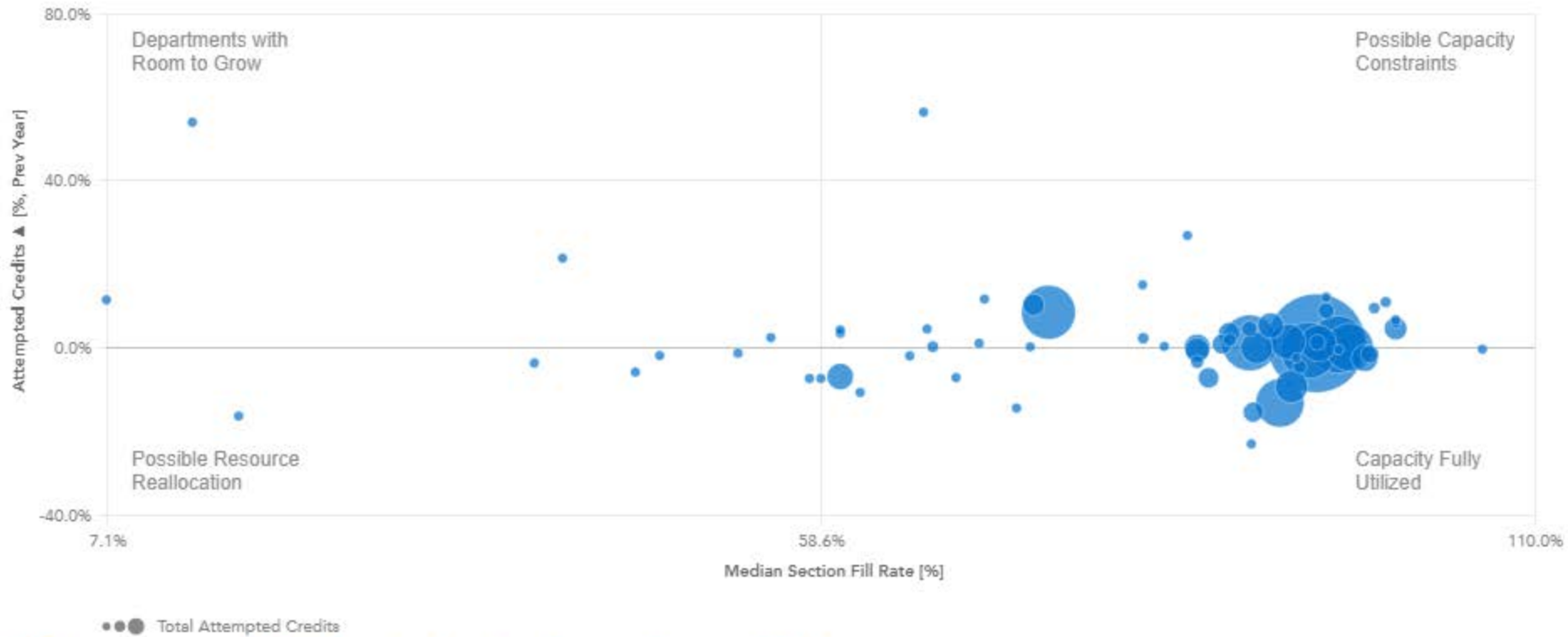


Capacity Planning

Department Growth Planning

Comparison of Demand vs Capacity by Department

Annual Percent Change in Attempted SCH vs Median Section Fill Rates



[View Attempted SCH Growth vs Median Section Capacity By Dept.](#)

Academic Performance Solution

Academic Program Review

Strategically evaluate department health on an annual basis.

Critical analyses:



Completion Rates



Enrollment Trends



Intercurricular Dependencies

Budget and Resource Allocation

Identify opportunities to standardize and streamline resource allocation decisions.

Critical analyses:



Course Bottlenecks



Costs per Student Credit Hour



Consolidation Opportunities

Course and Workload Planning

Improve student outcomes by aligning offerings with demand.

Critical analyses:



Seat Utilization



Distinct Course Offerings



Faculty Mix and Workload



Costs

FISCAL PERIOD

All

ORGANIZATION DETAIL

All

ACCOUNT CATEGORY

All

ACCOUNT DETAIL

All

FUND DESCRIPTION

All

FUNCTION/PURPOSE DESC...

All

Dashboard tab filters for Course Attributes, Student Attributes, and Term do not apply to this section. Use the Academic Year filter at the top of the tab to filter costs by year.

Apply

Total Costs

\$486.36 M

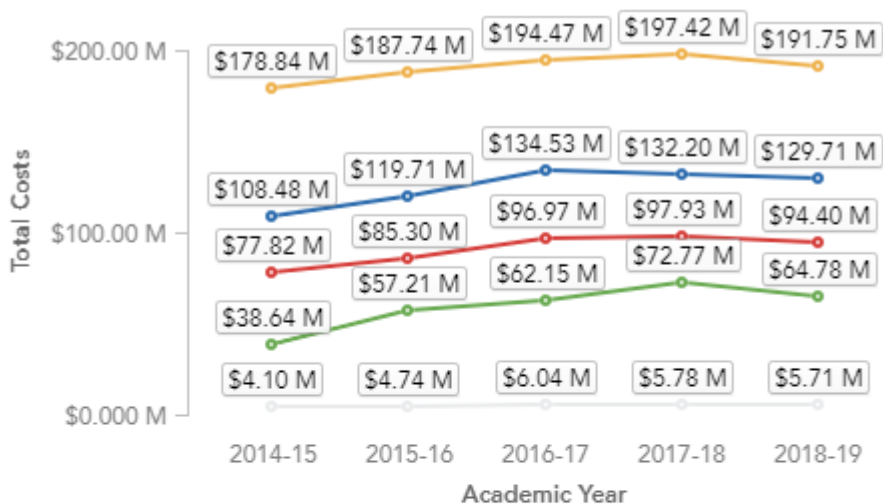
Cost Per Credit Hour

\$599

Total and Per Credit Hour Costs

Trends in Total Direct Costs by Account Category

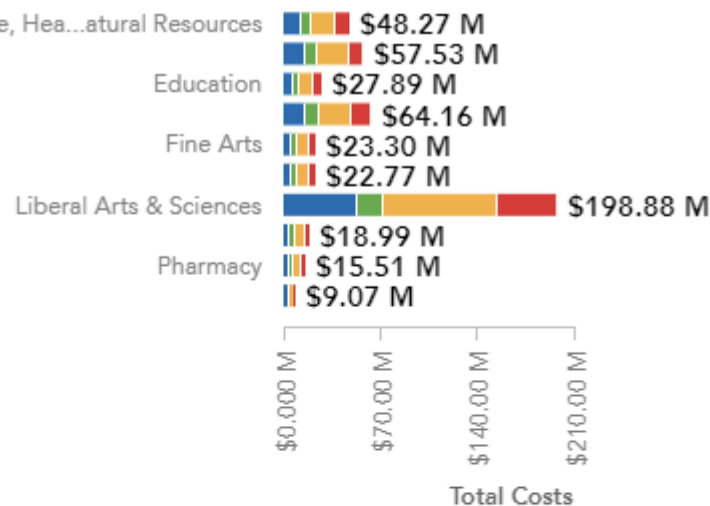
Click on total costs to view line item details.



- Employee Benefits
- General Operational Expenses
- Instructional Staff Salaries
- Non-instructional Staff Salaries
- Student Compensation

Total Direct Costs by Account Category

Click on total costs to view line item details.



- Employee Benefits
- General Operational Expenses
- Instructional Staff Salaries
- Non-instructional Staff Salaries
- Student Compensation

Department-Level Course Planning Benchmarks

[Back to APS Home](#)

Cohort Weighted Averages are based on the proportion of total attempted credit hours taught per institution in the cohort. Weights change based on filter selections.

Choose Your Cohort

Best Match Do...

Choose Your College

All

APS Benchmark Filters

Time Period

ACADEMIC YEAR

2018-19

TERM

All

University Attributes

DEPARTMENT

All

Course Attributes

COURSE TYPE

All

COURSE DIVISION

All

COURSE LEVEL

All

Student Attributes

STUDENT LEVEL

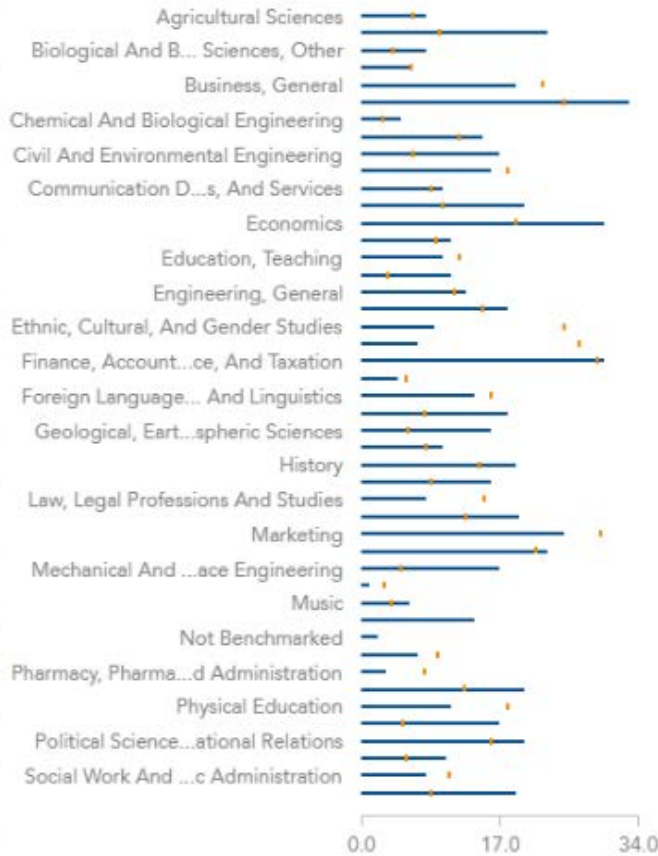
All

STUDENT CLASSIFICATION

All

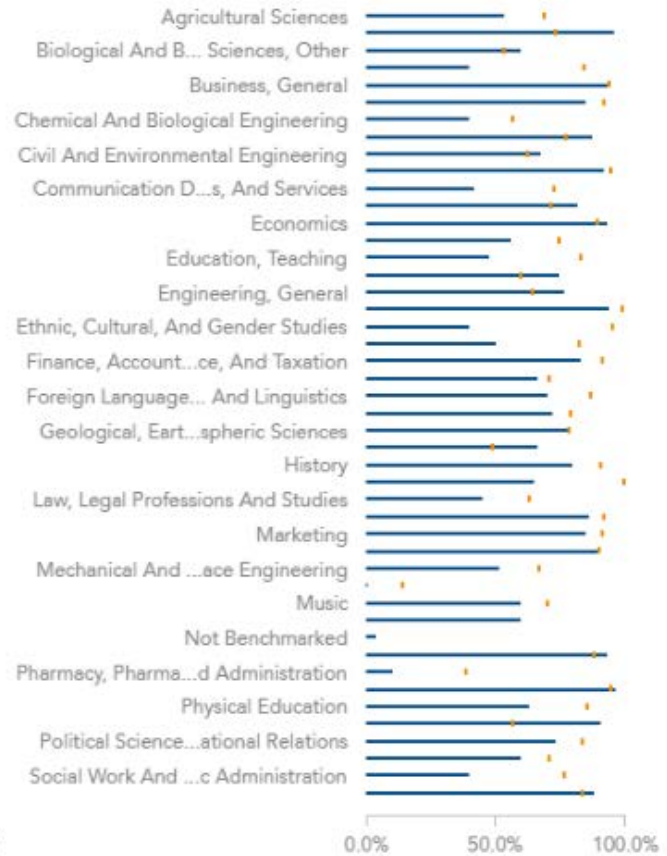
Apply

Median Class Size



■ My Institution
 ■ Cohort Weighted Average

Median Class Fill Rate



■ My Institution
 ■ Cohort Weighted Average

[Back to APS Home](#)

Instructional Workload Benchmarks

Choose Your Cohort

Best Match Do... ▾

Choose Your College

All ▾

APS Benchmark Filters

Time Period

ACADEMIC YEAR

2018-19 ▾

TERM

All ▾

University Attributes

ASSIGNED DEPARTMENT

All ▾

Staff Attributes

INSTRUCTOR TYPE

Tenured, Tenur... ▾

INSTRUCTOR RANK

All ▾

Course Attributes

COURSE TYPE

All ▾

COURSE DIVISION

All ▾

COURSE LEVEL

All ▾

Instructional Workload Measures (per Instructor and per Instructional FTE)

Instructional Full-Time Equivalent (IFTE) is calculated as the Total Credit Hours Taught Per Instructor divided by the Full-Time Instructional Load.

	Median Workload Per Instructor		Total Workload Per IFTE	
	My Institution	Cohort (Median)	My Institution	Cohort (Median)
SCH Taught	163	222	240.7	441.1
Sections Taught	6	7	8.1	12.6
Credit Hours Taught	30	13	37.3	26.3

- ➔ [View by Assigned Department and Instructor Type](#) [per Instructor](#) | [per IFTE](#)
- ➔ [View by Assigned Department and Instructor Rank](#) [per Instructor](#) | [per IFTE](#)

Details on Selected Instructor Type(s) / Rank(s)

	Number of Instructors	% of Total Instructors	Total IFTE	IFTE to Instructor Ratio	Full-Time Instructional Load
My Institution	873	21.6%	779.0	0.9	18
Cohort (Median)	1,176	30.5%	910.3	0.6	Cohort distribution

Opportunities to Inflect Cost Per SCH

Use the reports in this section to determine which cost drivers you can adjust to inflect cost per SCH for the selected department(s). There are two ways to reduce this metric: decrease the numerator (lowering costs) or increase the denominator (increasing the SCH produced while holding costs constant).

Course Attributes

COURSE TYPE

All

COURSE LEVEL

All

1) Course Completion Rates

Credits are lost due to failing grades and student withdrawals from courses. Set goals to improve completion rates.

My Institution 95.3%	Cohort 25th Percentile 93.2%	Cohort Median 93.6%	Cohort 75th Percentile 94.3%
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[View My Institution's Course Completion Rates](#)

[How to: Identify Opportunities for Course Completion Improvement](#)

2) Median Section Size

Consider increasing section sizes to increase the SCH produced by a given instructor, reducing cost per SCH.

My Institution 12	Cohort 25th Percentile 10	Cohort Median 11	Cohort 75th Percentile 12
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[View My Institution's Section Sizes](#)

[How to: Match Section Offerings with Demand](#)

Instructional Staff Attributes

ASSIGNED DEPARTMENT

All

3) Median SCH Taught Per Instructor

Full-time instructors often teach less than the standard course load. Consider increasing the instructional workload of certain instructors.

My Institution 123	Cohort 25th Percentile 110	Cohort Median 142	Cohort 75th Percentile 184
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[View Median Workload Per Instructor: By Type | By Rank](#)

[View Total Workload Per IFTE: By Type | By Rank](#)

[How to: Make Data-Informed Faculty Line Requests](#)

4) Instructor Mix

If your instructional salaries costs vary significantly from your peers, it may be due to the difference in instructor mix.



How-to Guides

Enrollment growth

- Aligning Distinct Course Offerings with Enrollment Trends
 - Compare demand trends to course offerings to reveal potential misalignment of resources.
- Matching Section Offerings with Demand
 - Determine the right number of sections to efficiently use resources and avoid bottleneck courses.
- Measuring Student Demand for Courses
 - Assess student demand for courses to efficiently plan course offerings.

Cost efficiency

- Exploring Section Capacity Variation
 - Pinpoint variation in max caps to accurately measure instructional capacity.
- Monitoring Faculty Course Loads
 - Understand how students are interacting with faculty by evaluating metrics such as faculty mix and attempted student credit hours by instructor type.
- Supporting Budget Planning with Benchmark Data
 - Leverage benchmark data on capacity and completion rates to inform budget planning.

Let us help you!

Office of Budget and Planning (OBP)

Office of Institutional Research and Effectiveness (OIRE)

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