

2019 Report on Annual Indicators

University Performance Measurement System

July 2019



University of Massachusetts

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University of Massachusetts

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Message from the President

July 2019

I am pleased to present to you the University of Massachusetts' *2019 Report on Annual Indicators*, an effort that illustrates our resolute commitment to assessment, accountability and continuous improvement.

This report measures the university's progress towards achieving the strategic priorities approved by the UMass Board of Trustees and compares the university's performance with peer institutions across the country on a range of indicators related to academic quality, student success and satisfaction, access and affordability, service to the state, and financial health. We undertake this comprehensive self-analysis annually as a means of measuring our excellence in education, research and service, as well as determining areas in which we would like to grow and better serve the Commonwealth.

As the attached *2019 Annual Indicators Report* demonstrates, the university continues to make significant progress in achieving its long-term goals and fulfilling its vital role as the Commonwealth's public research university. This past year, UMass provided a world-class education to nearly 75,000 students – the vast majority of whom are from the Commonwealth – and conducted research that led to groundbreaking discoveries and start-up companies that create jobs and fuel economic growth. Furthermore, our graduates remained in Massachusetts, entering the workforce in critical fields like the life sciences, engineering, computer science, education and business and contributing to the university's \$6.2 billion annual economic impact.

Major highlights of this report include:

UMass offers its students high-quality academic and research opportunities. In FY 2018, the university generated more than \$650 million in research expenditures, exceeded \$60 million in licensing income and remained a nationally recognized leader for patent awards. Additionally, the five campuses presented a total of 841 doctoral degrees across various disciplines, which include 548 research and scholarship doctoral degrees and 293 professional practice doctoral degrees. Among those recipients, 96% of UMass Medical School graduates were accepted to their choices of residency, a match rate that is consistently higher than those of other peer institutions.

UMass educates a diverse community. Currently, nearly four in ten (38%) of UMass undergraduates are students of color, making it the most diverse public university in all of New England. As a point of comparison, approximately 32% of Massachusetts public high school graduates are students of color. There is also a growing international presence among UMass students, with international students comprising approximately 7% of undergraduate students and 10% of graduate students across the campuses.

UMass continues to be accessible and affordable. At UMass, tuition and fees average 16% of the statewide median family income, a percentage much lower than that of the state's private universities (52%) and other New England public universities (19%). It also reaches diverse and geographically-dispersed learners through UMass Online, with its course registrations increasing by 4% in the previous academic year.

UMass contributes to an educated Commonwealth citizenry and workforce. Approximately 79% of UMass first-year students are Massachusetts residents, compared to an average of 24% at other private peers in the state. The university also awarded 19,000 degrees in the previous academic year and sent many of these graduates to work in the Commonwealth's most in-demand fields, such as computer science, engineering and healthcare. In fact, roughly two-thirds (63%) of the university's undergraduate alumni remain in the Commonwealth after graduation.

UMass' financial indicators compare favorably to peer institutions. In FY 2018, the marked value of the university's endowment improved by 6%, standing currently at \$872 million, and this was the second year in a row that annual private giving exceeded \$120 million. Additionally, collective efforts by the Procurement Council, IT Leveraged Procurement Committee and the Strategic Energy Committee have resulted in cost savings of \$9.5 million. The university's primary reserve and debt service to operations were all within the range of peer systems, as well.

UMass has maintained high bond ratings.

The university's high agency bond ratings for FY 2018 (Aa2 rating by *Moody's*; AA- rating by *S&P*; AA rating by *Fitch*) reflects continued confidence in the institution's financial health.

All of these factors clearly demonstrate our continued pursuit of academic and institutional excellence and efficiency at the University of Massachusetts. As the Commonwealth's public research university, we remain deeply committed to preserving access to an affordable, world-class education for the 75,000 students that we serve every year.

Sincerely,

A handwritten signature in blue ink, appearing to read "Martin T. Meehan".

Martin T. Meehan
President



University of Massachusetts

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2019 REPORT ON ANNUAL INDICATORS
University Performance Measurement System

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UMASS LOWELL

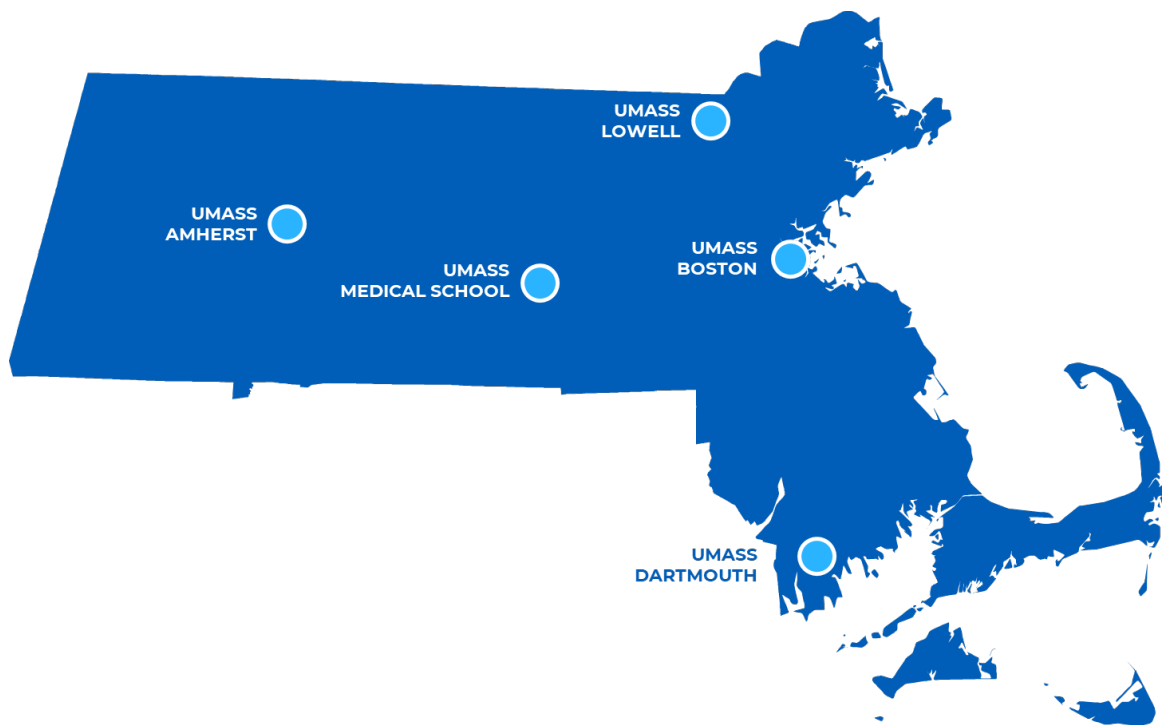
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THE 2019 REPORT ON ANNUAL INDICATORS

The University of Massachusetts Annual Indicators Report measures progress toward achieving the strategic priorities approved by the Trustees and embedded in its mission - 'to provide an affordable and accessible education of high quality and to conduct programs of research and public service that advance knowledge and improve the lives of the people of the Commonwealth, the nation, and the world.' The 2019 Report on Annual Indicators is the 22nd annual report of the University of Massachusetts Performance Measurement System.

This report provides trustees, legislators, and state-level policymakers with information by which they can assess the University as compared with similar institutions and its performance in the past. Through this report and other aspects of performance measurement and assessment, the University seeks to be open and accountable to the constituencies it serves.

The Report on Annual Indicators includes measures that relate to five primary areas:

- *Academic Quality*
- *Student Success and Satisfaction*
- *Access and Affordability*
- *Service to the Commonwealth*
- *Financial Health*

Encompassed within these five areas are nine strategic priorities of the University. The strategic priorities are:

- *Improve student learning experience*
- *Strengthen research and development*
- *Renew faculty*
- *Continue a focus on diversity and positive climate*
- *Maintain and improve access and affordability*
- *Develop leadership role in public service*
- *Increase endowment*
- *Improve administrative and IT services*
- *Develop first-rate infrastructure*

In order to ensure that the University's self-evaluation process is current and in alignment with emerging issues of salience, the Report on Annual Indicators undergoes a system-wide review process every five years. The 2019 Report on Annual Indicators is in the fifth year of the current cycle and thus, is expected to be reviewed in the coming academic year.

This report provides relevant longitudinal and comparative data to help the reader assess the information being provided. Each campus has an established peer group that contains comparable as well as "aspirant" institutions. For the UMass Medical School, the peer group consists of 20 selected medical schools in the United States, while their 'endowment' peer group consists of all public medical schools. For all the other UMass campuses, small groups of institutions comparable in mission, size, student characteristics, and programmatic mix are used.

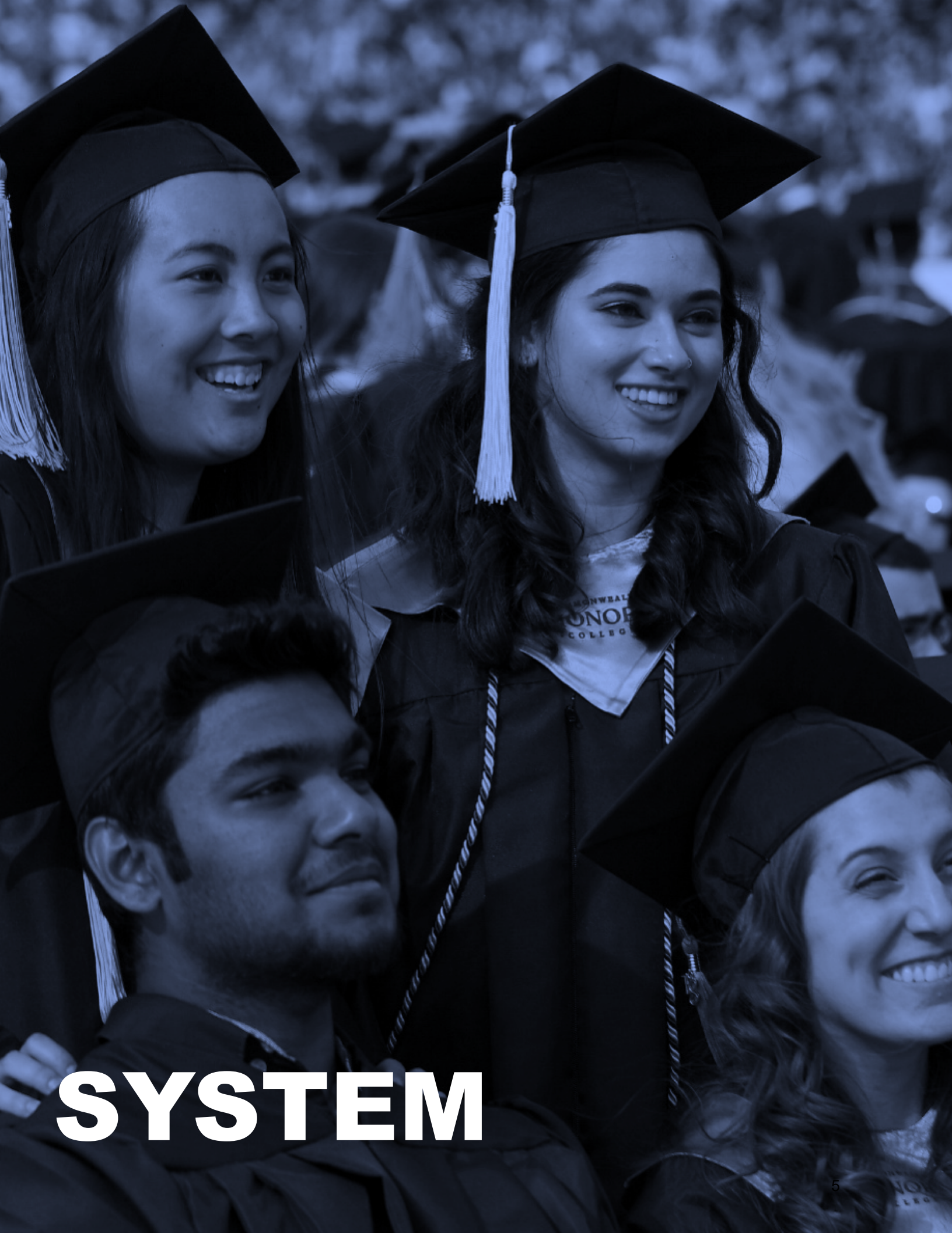
The report presents some indicators in aggregate for the entire system, in particular, those that relate to *Access and Affordability*, *Service to the Commonwealth*, and *Financial Health*. Indicators in these areas reflect decisions that rest with the system administration and the Board (such as tuition and fee levels) or describe the collective role of the campuses in serving the students and citizens of the Commonwealth (such as degree production or enrollment of Massachusetts residents). Depending on the indicator, data for the UMass system are compared with Massachusetts private universities, Massachusetts demographic data, New England public universities, or (for the financial indicators) a small group of public university systems in other states.

The System report is followed by individual reports for each campus. Each report has the following format:

- Headlines from the 2019 Annual Indicators
- 2019 Annual Indicators at a Glance
- Infographics and Charts
- Definitions and Sources
- List of Institutional Peers

Legislative Priorities	UMass Strategic Priorities	2019 ANNUAL INDICATORS
ACADEMIC QUALITY	Improve student learning experience	Average High-School GPA of Freshmen
		SAT Scores of Freshmen
		<i>25th – 75th Percentile</i>
		<i>Average</i>
		Average GPA of Entering Transfer Students
		Mean MCAT Scores of Entering Students (UMMS Only)
		Student Satisfaction with Educational Experience
		Student-Faculty Ratio
		Technology-Enhanced Classrooms
		Doctoral Degrees Awarded
		Postdoctoral Appointees
	Strengthen research and development	Total R&D Expenditures
		Total R&D Expenditures Rankings
		Total R&D Expenditures Rankings among Carnegie Peers, US Publics, Non-Medical
		Federal R&D Expenditures (Optional)
		Total R&D Expenditures per Tenured/Tenure-track Faculty
		Total R&D Expenditures per FT Faculty
		Federal R&D Expenditures per FT Faculty
		Sponsored Instruction/Outreach per Faculty
		NIH Funding Among Medical Schools (UMMS Only)
		US News Ranking in Primary Care Medicine (UMMS Only)
		Patent Applications
		License Income
		Utilization of Shared High-Performance Computing Research Resources
	Renew faculty	Percent Tenured/Tenure-Track Faculty FTE
		New Tenured/Tenure-Track Faculty Hired
		New Tenured/Tenure-Track Faculty Hired as Percent of All Tenured/Tenure-Track Faculty
		Tenured/Tenure-Track Faculty
		Faculty FTE
		Faculty-of-Color
Women Faculty		
Faculty Awards		
National Academy Members		
ACCESS AND AFFORDABILITY	Access and Affordability	Tuition & Fees as Percent of Statewide Family Income
		Percent (In-State) Pell Grant Recipients
		Percent of Need Met for In-State Students Awarded Need-Based Aid
		Average Debt of Students for Graduating Class
		Percent Graduating Class with Debt
		Percent UGs from Massachusetts
		Online Course Enrollments
		Annual Growth in Online Course Enrollments

Legislative Priorities	UMass Strategic Priorities	2019 ANNUAL INDICATORS
STUDENT SUCCESS AND SATISFACTION	Diversity and positive climate	Percent UGs who are Students of Color
		Percent UGs who are First Generation in College
		Percent UGs who have English as Second Language
		Percent UGs who are International
		Number of Students who participated in Study Abroad program
		Freshmen One-Year Retention Rate
		Freshmen Four-Year Graduation Rate
		Freshmen Six-Year Graduation Rate
		Transfer One-Year Retention Rate
		Transfer Four-Year Graduation Rate
		Student Achievement Measure
		Alumni Participation Rate
		Match Rate/Choice of Residency (UMMS Only)
SERVICE TO THE COMMONWEALTH	Develop a leadership role in public service	Degree Completions
		Percent Mass Residents Attending UMass
		In-State UG Enrollment by Region
		Total Degrees and Certificates Awarded
		UMass as Percent of all Massachusetts Degrees
		Percent Alumni who Remain in MA
		Enrollment in Science, Technology, Engineering, and Mathematics (STEM) programs (Graduate/Undergraduate)
		Degrees Awarded in STEM fields (Graduate/Undergraduate)
		Service to State Agencies (\$)
		Health Care Awards (Undergraduate, Graduate Degrees; Certificates)
		Test Takers in MTEL Science and Math subject tests
FINANCIAL HEALTH	Endowment	Endowment Assets and Annual Growth in Endowment
		Total Endowment per Annualized Student FTE
		Private Funds Raised Annually
	Administration and IT Services	Primary Reserve
		Campus Safety
		Procurement Savings/Enhanced Services
		Bond Ratings (Moody's, S&P, Fitch)
	Infra-structure	Debt Service to Operations
		Deferred Maintenance per GSF



SYSTEM

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HEADLINES

ACADEMIC QUALITY

UMass continues to admit high-quality students. UMass attracts highly qualified applicants. Freshmen average SAT scores ranged from 1084 to 1296 across the four undergraduate campuses. Average high school GPA increased slightly from the previous year, ranging from 3.25-3.90.

UMass research capacity remains strong. In FY 2018, the system generated \$651 million in research expenditures, reflecting five consecutive years of over \$600 million in research funding. Furthermore, in 2017-18, the five campuses awarded a total of 841 doctoral degrees across various disciplines. These include 548 research/scholarship doctoral degrees and 293 professional practice doctoral degrees.

MA Green High-Performance Computing Center. The MGHPCC is receiving national attention as a

model for collaborative research computing. At UMass, the shared cluster now supports the computational needs of over 1,200 researchers. The efficiency of facility operations equates to significant cost savings for power with a reduced environmental footprint.

UMass Medical School retains top 10% ranking in primary care. In the 2019 US News ranking, UMass Medical School ranked 14th among 177 medical schools with an emphasis in primary care medicine.

Commercialization of UMass research expands. In FY 2018, license income for the University exceeded \$60 million. UMass ranks among the top US universities in license income.

ACCESS AND AFFORDABILITY

UMass remains accessible and affordable. UMass tuition and fees average 16% of statewide median family income, a percent much lower than that for the state's private universities (52%) and other New England public universities (19%).

UMass serves citizens of the Commonwealth. Roughly four out of five (79%) UMass freshmen are

Massachusetts residents, compared with one-fifth (24%) at its private peers in the state.

UMassOnline expands educational access. UMassOnline reaches diverse and geographically dispersed learners. In AY 2017-18, course registrations for UMassOnline were at 79,050, representing a 4% increase over the previous year.

STUDENT SUCCESS AND SATISFACTION

UMass educates a diverse citizenry. The number of students of color enrolling at UMass has increased over the last five years. Currently, nearly four in ten (38%) UMass undergraduates are students of color. At UMass Boston, 60% of undergraduates (more than 6,200) are students of color, making it the most diverse public university in all of New England. As a point of comparison, approximately 32% of Massachusetts public high school graduates are students of color.

International enrollment continues to grow. There is a growing international presence among UMass students. There are 3,812 international

undergraduates students (7%) across the five campuses. The University's graduate program has a stronger international presence, by comparison, representing 20% of all graduate students. International students comprise about 10% (nearly 7,500) of the total student population - including all undergraduates, graduates, and medical students.

Medical school graduates secure top choice residencies. Ninety-six percent of UMass Medical School graduates were accepted to their choices of residency, a match rate that is consistently higher than the peer institutions.

HEADLINES

SERVICE TO THE COMMONWEALTH

UMass remains a top destination for residents.

Well over one-fourth (28%) of all Massachusetts residents enrolling in any of the four-year universities in the Commonwealth as first-time undergraduates, attend UMass. The University's students come from every region of the state.

UMass' contributes to creating an educated citizenry and workforce.

UMass awarded over 19,000 degrees and certificates in AY 2017-18. These include a total of 18,012 degrees (bachelor's and above), that represent 16% of all baccalaureate and graduate degrees (21% of bachelor's, 10% of master's degrees and 10% of doctoral and first professional degrees) awarded in the Commonwealth. The University's impact is

particularly high in the following fields: computer & information sciences, engineering, and health (bachelor's level); natural sciences and engineering (master's level); education, computer and information sciences, and math and natural sciences (doctoral level).

In 2017-2018, three in ten (30%) or 5,512 of the University's total degrees were awarded in STEM fields. The University's impact in the Healthcare field has also grown over the past five years, reflecting an 11% increase over this period.

Alumni reside and work in Massachusetts. Six of ten (60%) graduates overall of the University remain in the Commonwealth after graduation.

FINANCIAL HEALTH

Total Endowment stands at \$872 million. The market value of the University's endowment improved by 6% between FY 2017 and FY 2018.

Private Funds raised a total of \$121 million. While private giving to UMass declined by 5% in FY 2018 versus last year, this was the second year in a row (and third in the last five) that annual private giving exceeded \$120 million.

Financial indicators compare favorably to peers. In FY 2018, the University's primary reserve and debt service to operations were all within the range of peer systems.

Collaborative savings exceed \$9 million. In FY 2018, the University reported cost savings of \$9.5 million through the work of the Procurement Council; IT Leveraged Procurement Committee and the Strategic Energy Committee.

Bond Ratings remain high. The University's high agency bond ratings for FY 2018 (Aa2 rating by *Moody's*; AA- rating by *S&P*; AA rating by *Fitch*) reflects continuing confidence in the institution's overall financial health.

AT-A-GLANCE

ACADEMIC QUALITY

• No. of Doctoral Degrees Awarded	841	• License Income	\$61M
• Total R&D Expenditures	\$651M	• Number of Active Labs/ Researchers using Shared Cluster	3054
• Patent Applications	183	• CPU Utilization	8030

ACCESS AND AFFORDABILITY

• Tuition and Fees as a Percentage of Family Income	16%	• Online Course Registrations	79,050
• Percent of First-year Undergraduates from Massachusetts	79%	• Annual Growth in Online Course Registrations	4%
• Percent of Undergraduates from Massachusetts	83%		

STUDENT SUCCESS AND SATISFACTION

• Percent Undergraduates who are Students of Color	38%	• Total Students who Participated in a Study Abroad Program	1,751
• Undergraduates who are International	3,812		

SERVICE TO THE COMMONWEALTH

• Enrollment by Massachusetts Region		• Percent Alumni who Remain in MA	60%
Undergraduates from Greater Boston	36%	• Enrollment in STEM Programs	25,212 (35%)
Undergraduates from Northeast	26%	<i>Undergraduate</i>	20,449 (37%)
Undergraduates from Southeast	19%	<i>Graduate</i>	4,763 (29%)
Undergraduates from Central	11%	• Degrees Awarded in STEM Fields	5,512 (30%)
Undergraduates from Western	8%	<i>Undergraduate</i>	4,019 (30%)
• Degree Completions	18,012	<i>Graduate</i>	1,493 (30%)
<i>Bachelor's</i>	13,091	• Certificates Awarded in STEM Fields	250 (19%)
<i>Master's</i>	4,080	• Degrees Awarded in Healthcare Fields	2,156
<i>Doctorates</i>	841	• MTEL Science and Math Test-Takers	255

AT-A-GLANCE

FINANCIAL HEALTH

- Total Endowment **\$872M**
- Annual Growth in Endowment **6.4%**
- Private Funds Raised Annually **\$121M**
- Debt Service to Operations **6.5%**
- Total Deferred Maintenance Cost **\$3.35B**
- Deferred Maintenance per GSF **\$182**

ACADEMIC QUALITY

DOCTORAL DEGREES AWARDED

841

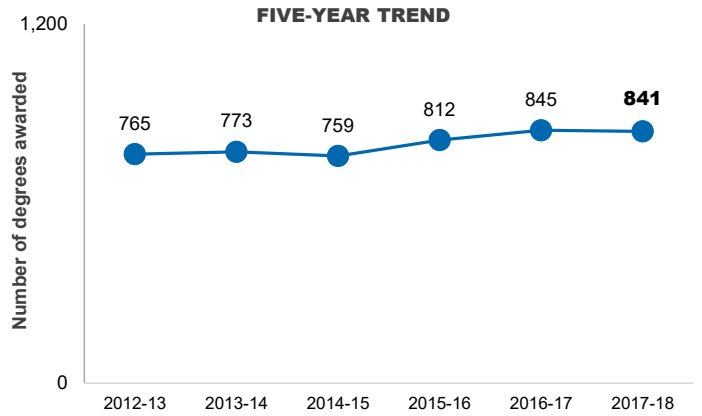
Degrees
Awarded in
2017-18

• **0%**

One-year
% change
(vs. 2016-17)

▲ **10%**

Five-year
% change
(vs. 2012-13)



TOTAL R&D EXPENDITURES

\$651.0

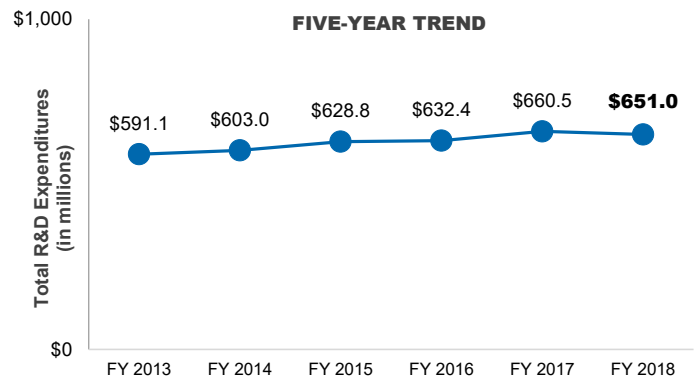
Million
in FY 2018

▼ **1%**

One-year
% change
(vs. FY 2017)

▲ **10%**

Five-year
% change
(vs. FY 2013)



PATENT APPLICATIONS

183

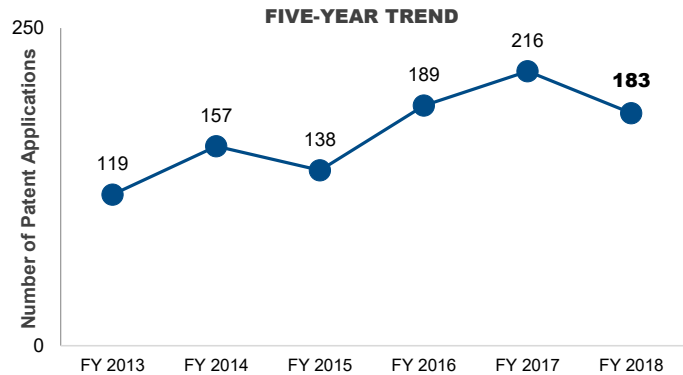
Patent
Applications
in FY 2018

▼ **15%**

One-year
% change
(vs. FY 2017)

▲ **54%**

Five-year
% change
(vs. FY 2013)



ACADEMIC QUALITY

LICENSE INCOME

\$61

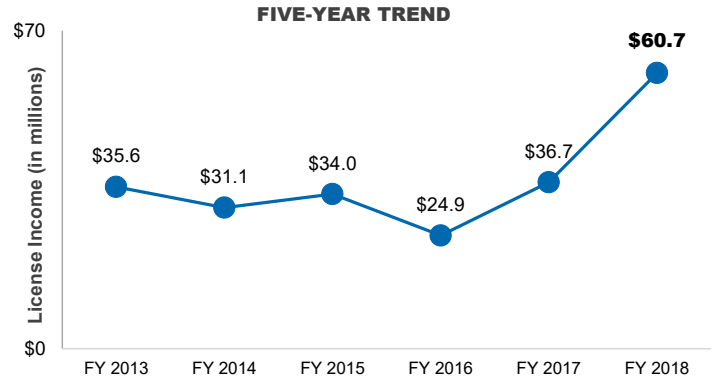
Million
in FY 2018

▲ **66%**

One-year
% change
(vs. FY 2017)

▲ **70%**

Five-year
% change
(vs. FY 2013)



UTILIZATION OF SHARED HIGH PERFORMANCE COMPUTING RESEARCH RESOURCES[†]

NUMBER OF ACTIVE LABS/RESEARCHERS USING SHARED HPC CLUSTER

3.1k

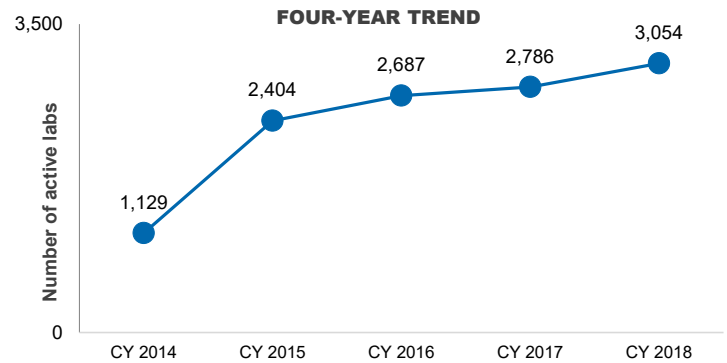
Active Labs
Researchers
in CY 2018

▲ **10%**

One-year
% change
(vs. CY 2017)

▲ **171%**

Four-year
% change
(vs. CY 2014)



[†] Data Source has been updated to MGHPCC utilization reports in CY 2018 and data revised for previous years to reflect the same.

CPU UTILIZATION (CPU YEARS USED ON SHARED HPC CLUSTER)

8k

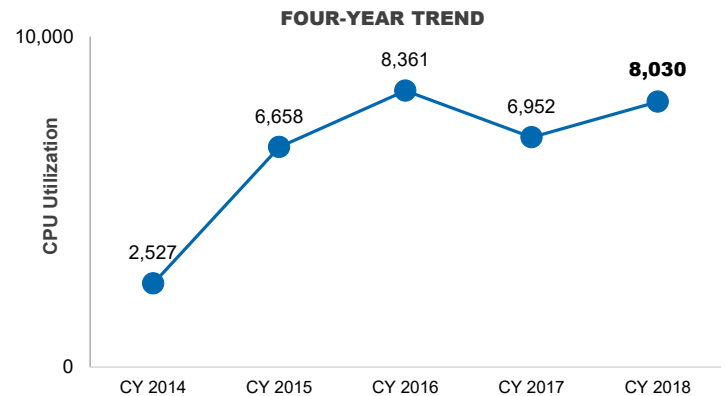
CPU Years on
Shared Cluster
in CY 2018

▲ **16%**

One-year
% change
(vs. CY 2017)

▲ **218%**

Five-year
% change
(vs. CY 2014)



[†] Data Source has been updated to MGHPCC utilization reports in CY 2018 and data revised for previous years to reflect the same.

ACCESS AND AFFORDABILITY

TUITION AND FEES AS A PERCENTAGE OF FAMILY INCOME*

16%

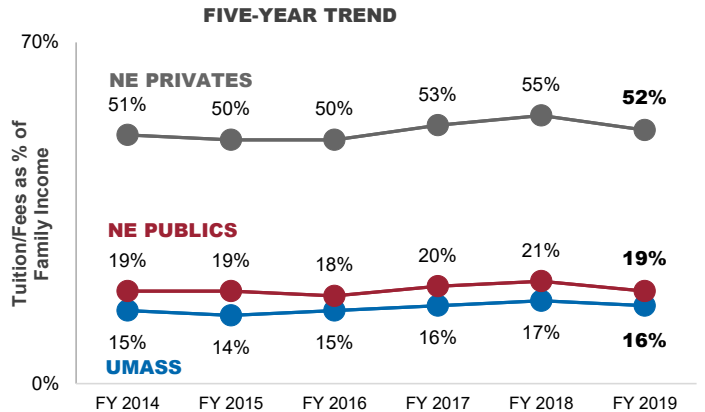
Tuition & Fees as % of family income at UMass in FY 2019

▼ **1**

One-year % point change at UMass (vs. FY 2018)

▲ **1**

Five-year % point change at UMass (vs. FY 2014)



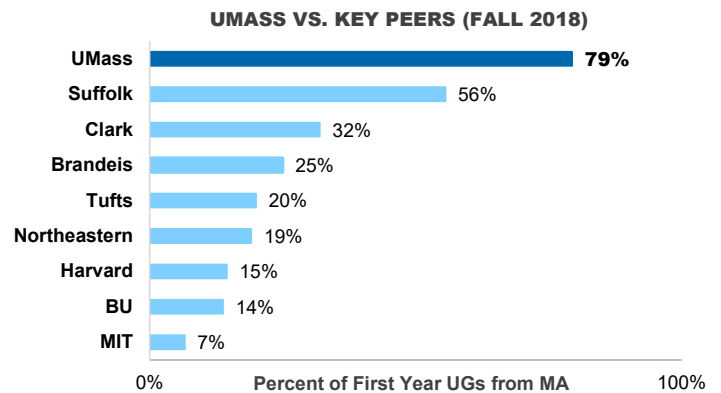
*Percentage of MA statewide median family income

UNDERGRADUATE ENROLLMENT FROM MASSACHUSETTS

PERCENT OF FIRST YEAR UNDERGRADUATE STUDENTS

79%

UMass first-year UGs from MA in Fall 2018



UMASS UNDERGRADUATES: ALL STUDENTS

47.2k

UMass UGs from MA in Fall 2018

▲ **1%**

One-year % change (vs. Fall 2017)

▲ **5%**

Five-year % change (vs. Fall 2013)

83%

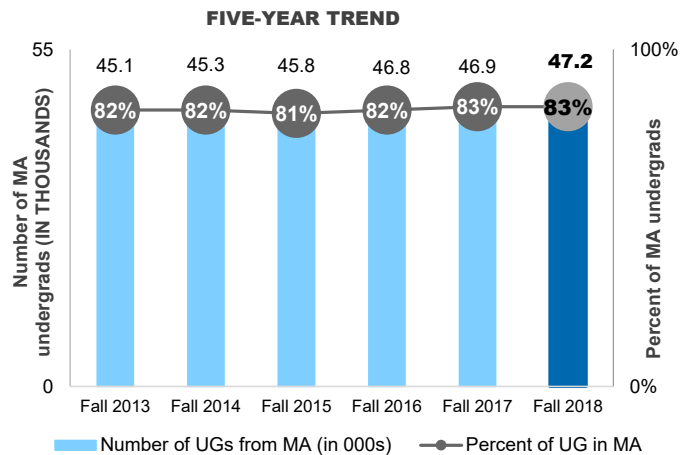
UMass % UGs from MA in Fall 2018

● **0**

One-year % point change (vs. Fall 2017)

▲ **1**

Five-year % point change (vs. Fall 2013)



ACCESS AND AFFORDABILITY

ONLINE COURSE REGISTRATIONS

79,050

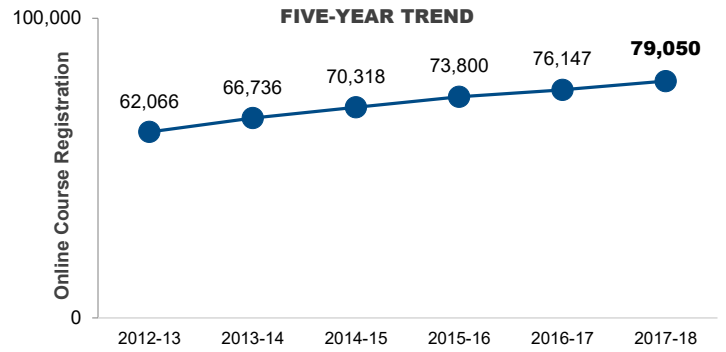
UMass total Online course registrations in 2017-18

▲ **4%**

One-year % change (vs. 2016-17)

▲ **27%**

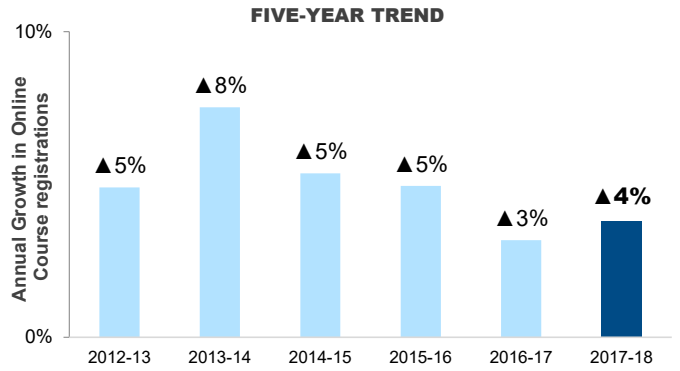
Five-year % change (vs. 2012-13)



ANNUAL GROWTH IN ONLINE COURSE REGISTRATIONS

4%

Annual Growth Online Course Registrations in 2017-18



STUDENT SUCCESS AND SATISFACTION

UNDERGRADUATE STUDENTS OF COLOR

UMASS Fall 2018 VS. MA PUBLIC HS CLASS OF 2016

38%

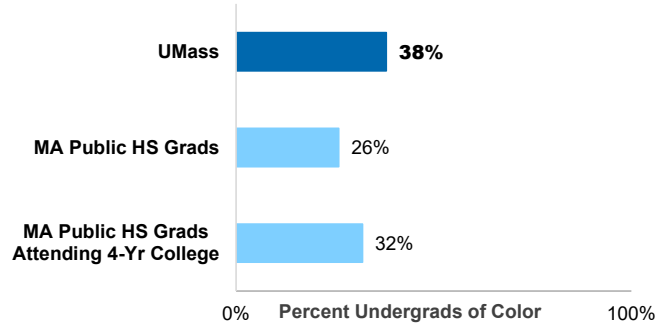
UMass UG Student of Color in Fall 2018

▲ 12%

Comparison vs. MA Public HS Graduates Class of 2016

▲ 6%

Comparison vs. MA Public HS Graduates Attending 4-Yr College Class of 2016



INTERNATIONAL UNDERGRADUATES

3,812

International UG Enrollment in Fall 2018

▲ 1%

One-year % change (vs. Fall 2017)

▲ 70%

Five-year % change (vs. Fall 2013)

7%

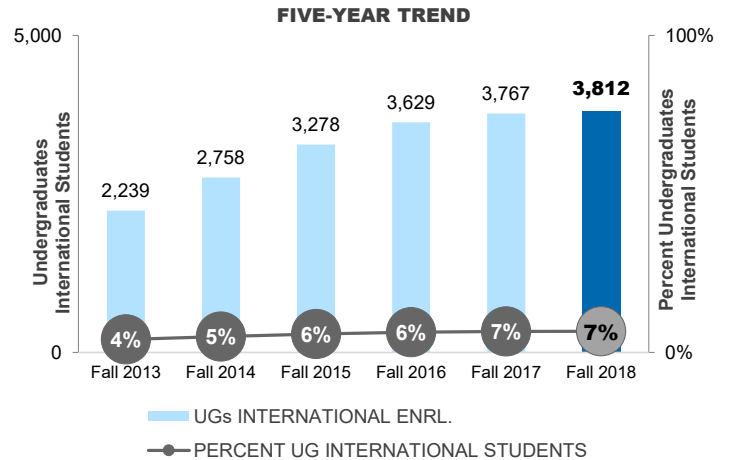
% International UG Enrollment in Fall 2018

• 0

One-year % point change (vs. Fall 2017)

▲ 3

Five-year % point change (vs. Fall 2013)



TOTAL STUDENTS WHO PARTICIPATED IN A STUDY ABROAD PROGRAM

1.8k

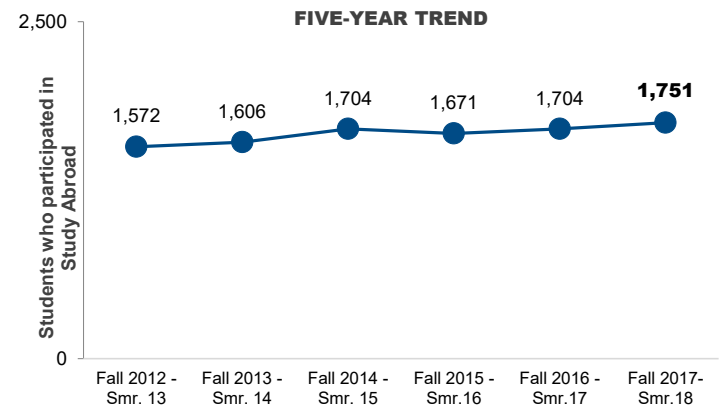
UMass UG participation in study abroad in Fall 2017-Smr.18

▲ 3%

One-year % change vs. Fall 2016 -Smr.17

▲ 11%

Five-year % change vs. Fall 2012 -Smr. 13



SERVICE TO THE COMMONWEALTH

ENROLLMENT OF MASSACHUSETTS RESIDENTS*

72%

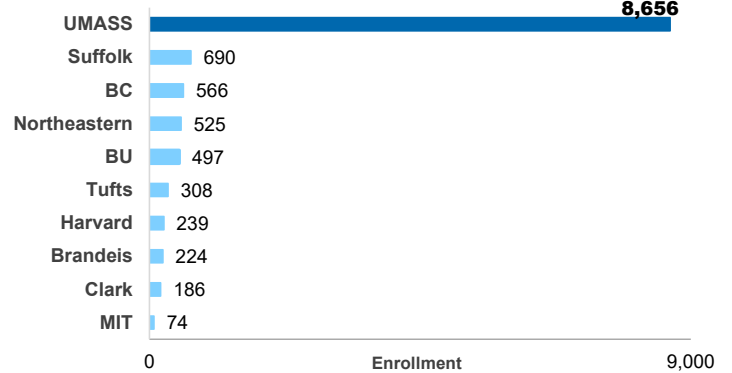
Of all MA FY* UGs enrolled at UMass or key private peers are enrolled at UMass (Fall 2016)

32%

Of all MA FY* UGs enrolled at a MA 4 year college/university are enrolled at UMass (Fall 2016)

*Undergraduate first-year (FY) students

UMASS VS. KEY PEERS (FALL 18)



ENROLLMENT BY MASSACHUSETTS REGION*

36%

Of all MA UGs enrolled at UMass come from Greater Boston

30%

Of all MA UGs enrolled at Amherst come from Greater Boston

71%

Of all MA UGs enrolled at Boston come from Greater Boston

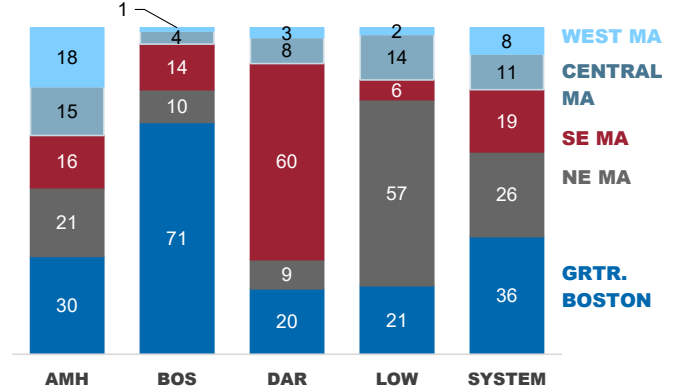
60%

Of all MA UGs enrolled at Dartmouth come from Southeast MA

57%

Of all MA UGs enrolled at Lowell come from Northeast MA

PERCENT UG ENROLLMENT BY MA REGION



DEGREE COMPLETIONS

18k

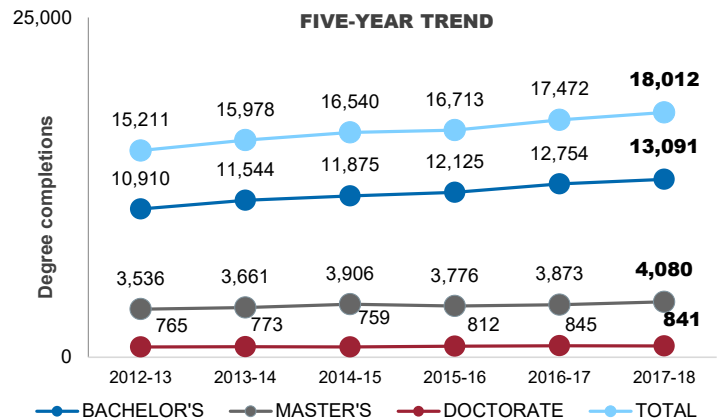
Total degree completions in 2017-18

▲ 3%

One-year % change in total degree completions (vs. 2016-17)

▲ 18%

Five-year % change in total degree completions (vs. 2012-13)



SERVICE TO THE COMMONWEALTH

AWARDS CONFERRED BY FIELD

20%

Of all UMass degree completions are in Bus & Mgmt. in 2017-18

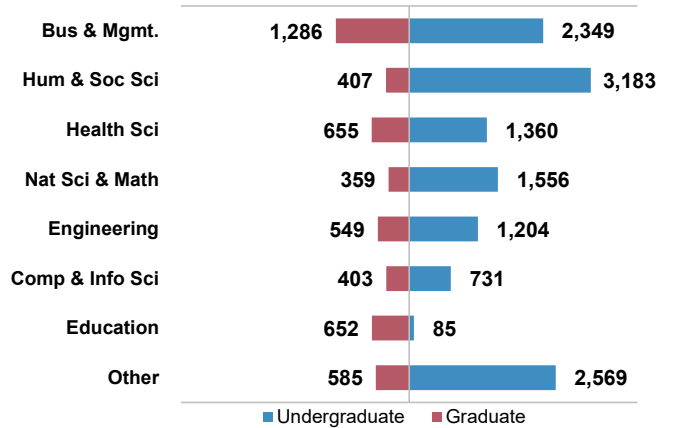
20%

Of all UMass degree completions are in Hum & Soc Sci in 2017-18

11%

Of all UMass degree completions are in Health Sci in 2017-18

NUMBER OF AWARDS



UMASS DEGREES AS PERCENTAGE OF ALL MASSACHUSETTS DEGREES

16%

Of all MA degree completions awarded by UMass in 2017-18

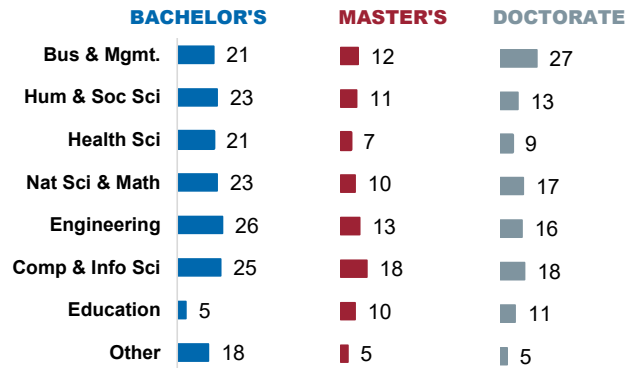
16%

Of all MA business degree completions awarded by UMass in 2017-18

20%

Of all MA engineering degree completions awarded by UMass in 2017-18

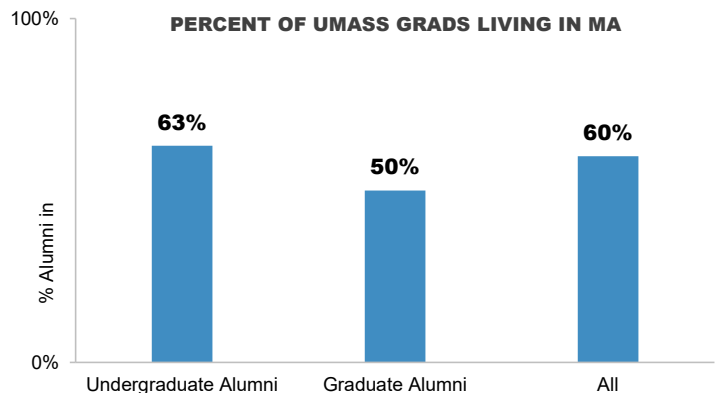
% MA DEGREES UMass



PERCENT OF GRADUATES WHO LIVE IN MASSACHUSETTS

60%

Of all UMass Alumni live in the Commonwealth



SERVICE TO THE COMMONWEALTH

ENROLLMENT IN STEM PROGRAMS

20.4k

UG enrollment in STEM fields in Fall 2018

▲ **1%**

One-year % change (vs. Fall 2017)

▲ **23%**

Five-year % change (vs. Fall 2013)

37%

Percent of total UG enrollment in STEM fields in Fall 2018

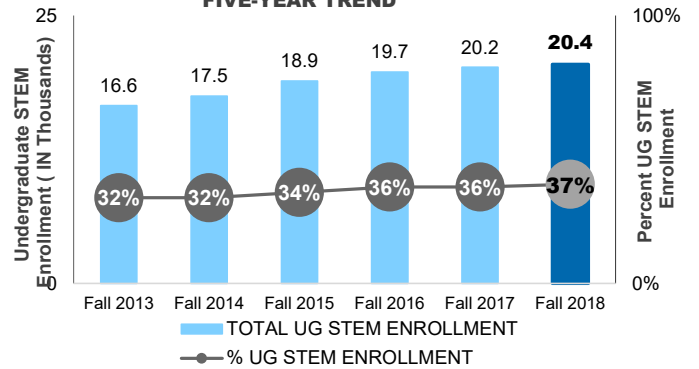
▲ **1**

One-year % point change (vs. Fall 2017)

▲ **5**

Five-year % point change (vs. Fall 2013)

UNDERGRAD STEM ENROLLMENT FIVE-YEAR TREND



4.8k

Grad enrollment in STEM fields in Fall 2018

▲ **1%**

One-year % change (vs. Fall 2017)

▲ **13%**

Five-year % change (vs. Fall 2013)

29%

Percent of total GR Enrollment in STEM fields in Fall 2018

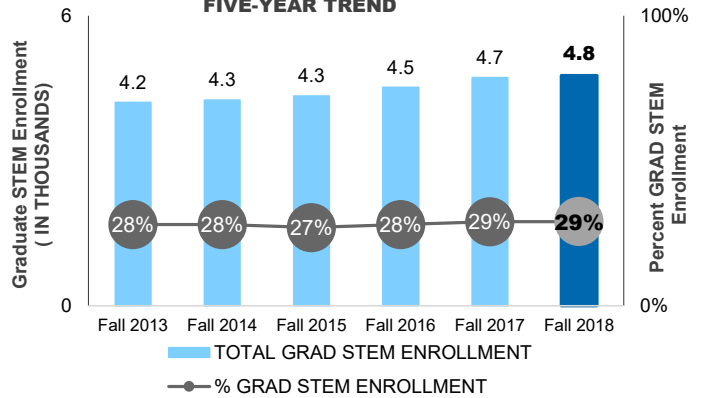
● **0**

One-year % point change (vs. Fall 2017)

▲ **1**

Five-year % point change (vs. Fall 2013)

GRAD STEM ENROLLMENT FIVE-YEAR TREND



* Data for Years Prior to Fall 2018 been updated to reflect UMass Boston historical updates

25.2k

Total enrollment in STEM fields in Fall 2018

▲ **1%**

One-year % change (vs. Fall 2017)

▲ **21%**

Five-year % change (vs. Fall 2013)

35%

Percent of total enrollment in STEM fields in Fall 2018

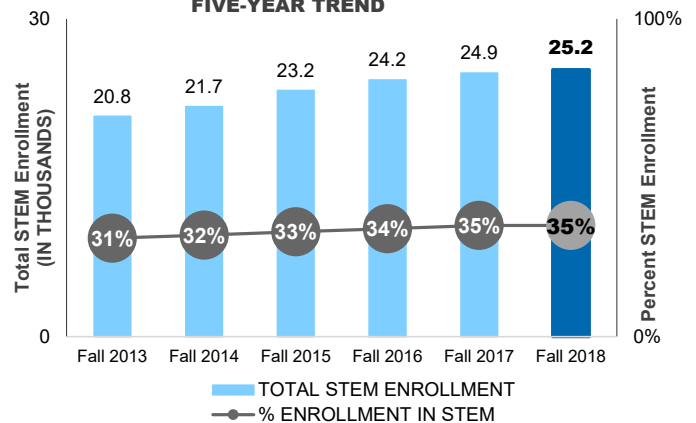
● **0**

One-year % point change (vs. Fall 2017)

▲ **4**

Five-year % point change (vs. Fall 2013)

TOTAL STEM ENROLLMENT FIVE-YEAR TREND



SERVICE TO THE COMMONWEALTH

DEGREES AWARDED IN STEM FIELDS

4.0k

UG degrees awarded in STEM fields in 2017-18

▲ **7%**

One-year % change (vs. 2016-17)

▲ **51%**

Five-year % change (vs. 2012-13)

30%

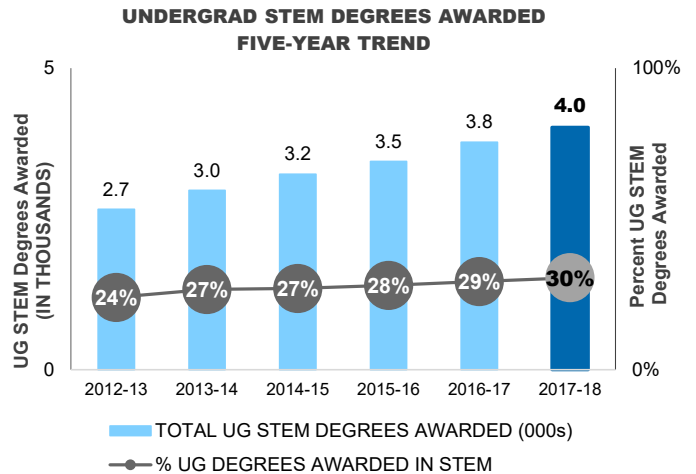
Percent of Total UG degrees awarded in STEM fields in 2017-18

▲ **1**

One-year % point change (vs. 2016-17)

▲ **6**

Five-year % point change (vs. 2012-13)



1.5k

GR degrees awarded in STEM fields in 2017-18

▲ **19%**

One-year % change (vs. 2016-17)

▲ **55%**

Five-year % change (vs. 2012-13)

30%

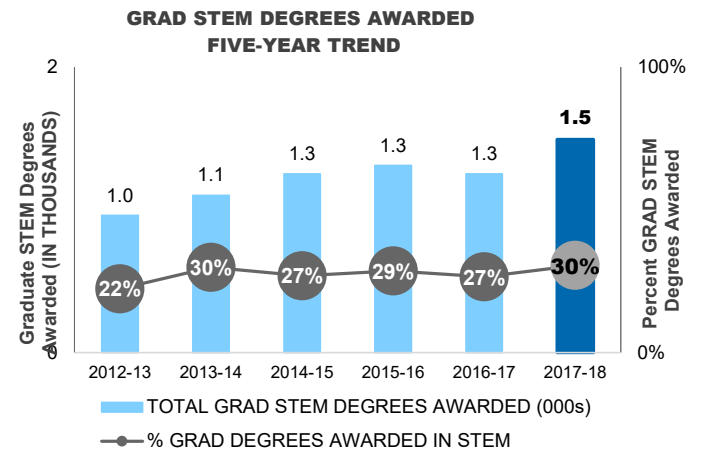
Percent of Total Grad degrees awarded in STEM fields in 2017-18

▲ **3**

One-year % point change (vs. 2016-17)

▲ **8**

Five-year % point change (vs. 2012-13)



* Data for Years Prior to 2017-18 been updated to reflect Boston Restate

5.5k

Total degrees awarded in STEM fields in 2017-18

▲ **10%**

One-year % change (vs. 2016-17)

▲ **52%**

Five-year % change (vs. 2012-13)

30%

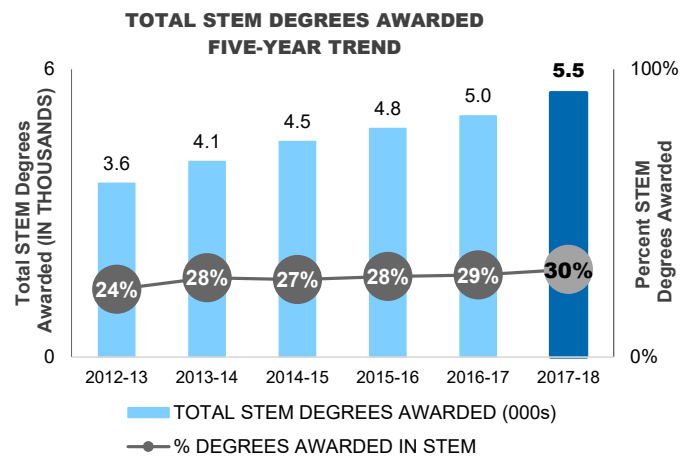
Percent of Total degrees awarded in STEM fields in 2017-18

▲ **1**

One-year % point change (vs. 2016-17)

▲ **6**

Five-year % point change (vs. 2012-13)



SERVICE TO THE COMMONWEALTH

CERTIFICATES AWARDED IN STEM FIELDS

250

Total certificates awarded in STEM fields in 2017-18

▲ **14%**

One-year % change (vs. 2016-17)

▲ **45%**

Five-year % change (vs. 2012-13)

19%

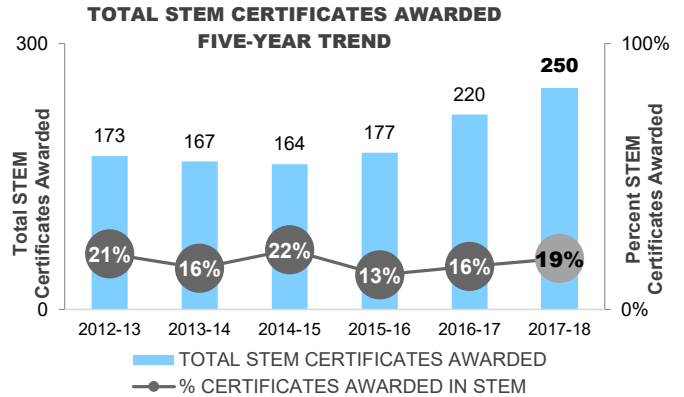
Percent of Total certificates awarded in STEM fields in 2017-18

▲ **3**

One-year % point change (vs. 2016-17)

▼ **2**

Five-year % point change (vs. 2012-13)



DEGREES AWARDED IN HEALTHCARE FIELDS

2.2k

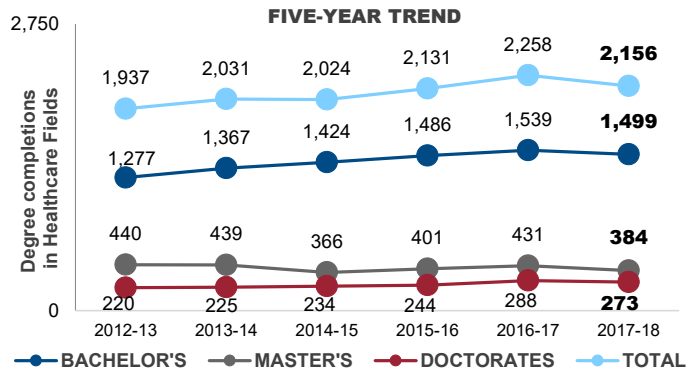
Total degrees awarded in Healthcare fields in 2017-18

▼ **5%**

One-year % change (vs. 2016-17)

▲ **11%**

Five-year % change (vs. 2012-13)



CERTIFICATES AWARDED IN HEALTHCARE FIELDS

152

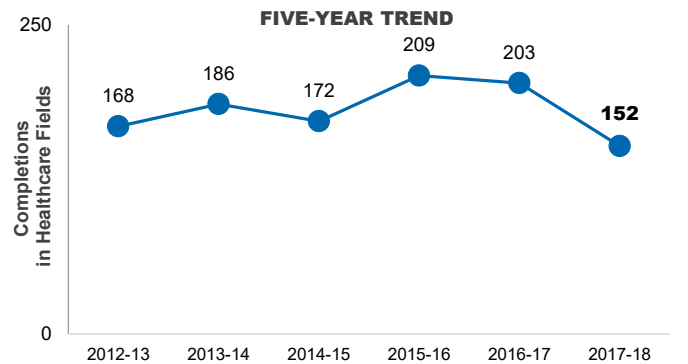
Total Certificates awarded in Healthcare fields in 2017-18

▼ **51**

One-year nominal change (vs. 2016-17)

▼ **16**

Five-year nominal change (vs. 2012-13)



* Certificates Awarded data has been restated for Years before 2017-18.

SERVICE TO THE COMMONWEALTH

MTEL SCIENCE AND MATH TEST-TAKERS

255

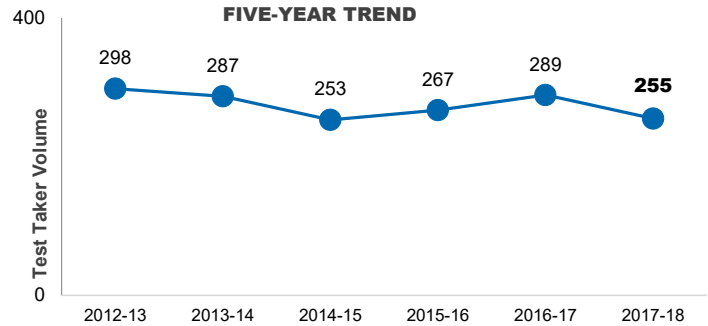
MTEL Science & Math Test-Takers in 2017-18

▼ **12%**

One-year % change (vs. 2016-17)

▼ **14%**

Five-year % change (vs. 2012-13)



FINANCIAL HEALTH

ENDOWMENT ASSETS

\$872

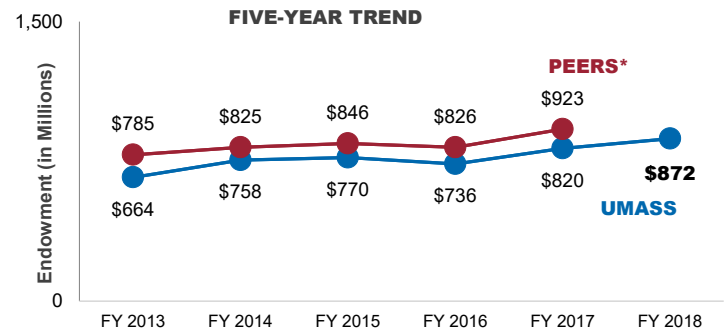
Million in FY 2018

▲ **6%**

One-year % change (vs. FY 2017)

▲ **31%**

Five-year % change (vs. FY 2013)



*Peers include U Colorado, U Connecticut, U Illinois, U Maine, U Maryland, U Missouri, and U New Hampshire. Peer endowment changed in FY15. Peer FY18 data not available.

6%

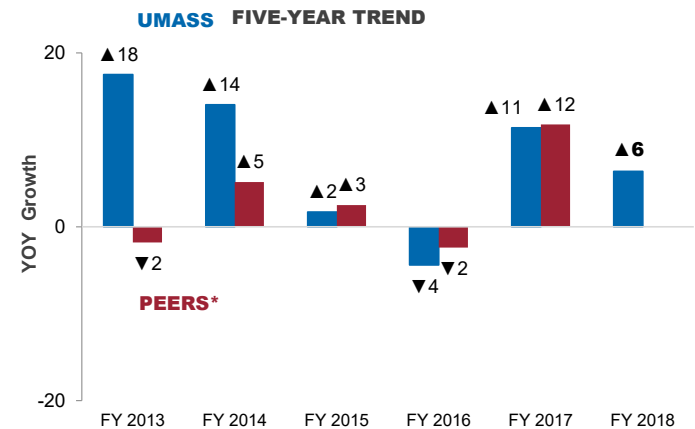
Annual Growth in FY 2018

▼ **5**

One-year % point change (vs. FY 2017)

▼ **12**

Five-year % point change (vs. FY 2013)



FINANCIAL HEALTH

PRIVATE FUNDS RAISED ANNUALLY*

\$120.7

Million
in FY 2018

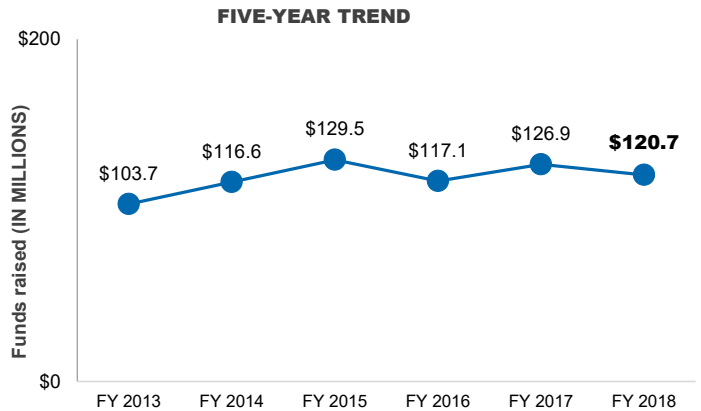
▼ **5%**

One-year
% change
(vs. FY 2017)

▲ **16%**

Five-year
% change
(vs. FY 2013)

* Includes cash, pledges and grants



PROCUREMENT SAVINGS/ENHANCED SERVICES EARNED

\$9.5

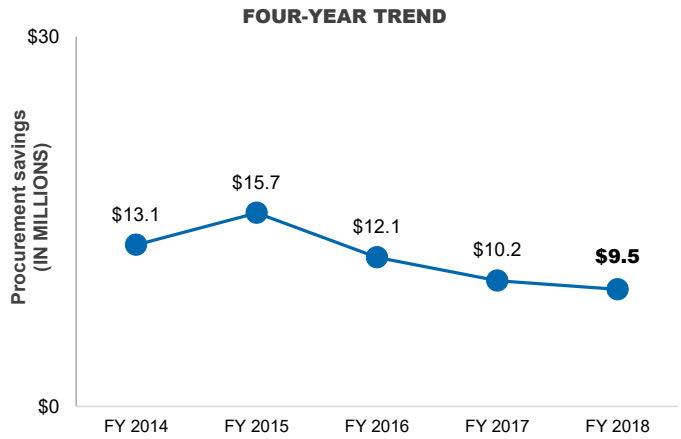
Million
in FY 2018

▼ **7%**

One-year
% change
(vs. FY 2017)

▼ **27%**

Four-year
% change
(vs. FY 2014)



LONG-TERM BOND CREDIT RATINGS

Aa2

Moody's Rating
FY 2018

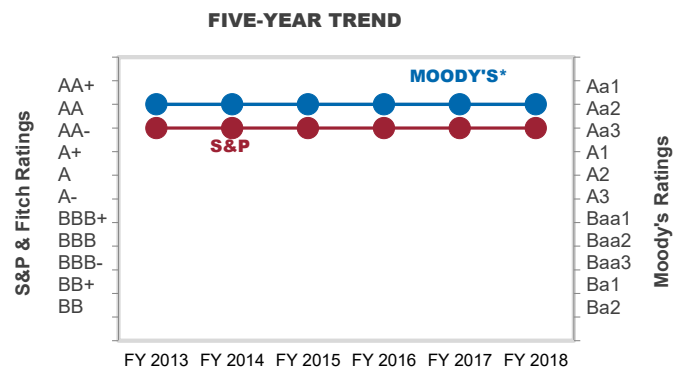
AA-

S&P Rating
FY 2018

AA

Fitch Rating
FY 2018

*Fitch ratings equal AA for the entire period and overlap with Moody's Aa2 ratings.



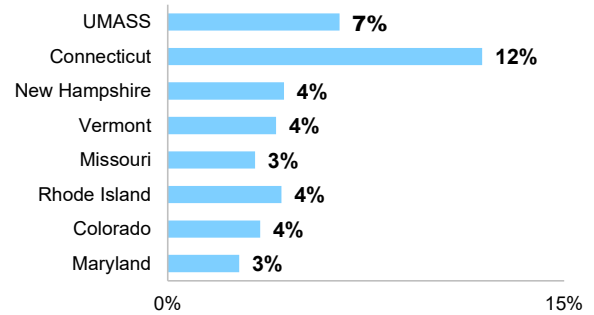
FINANCIAL HEALTH

DEBT SERVICE TO OPERATIONS

7%

UMass Debt Service to Operations in FY 2018

DEBT SERVICE TO OPERATIONS



TOTAL DEFERRED MAINTENANCE COST*

\$3.35

Billion in FY 2018

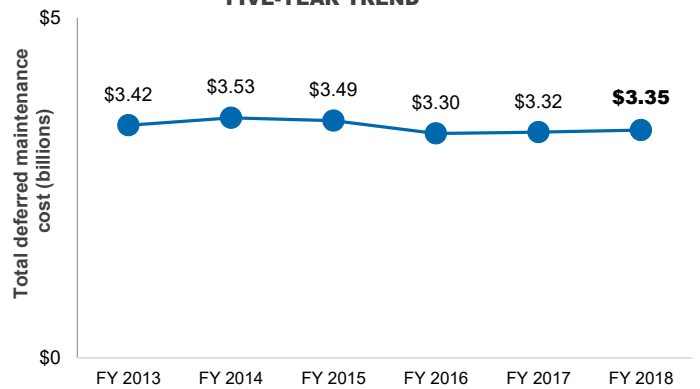
▲ 1%

One-year % change (vs. FY 2017)

▼ 2%

Five-year % change (vs. FY 2013)

FIVE-YEAR TREND



* Deferred Maintenance total reflects educational & operations space only.

DEFERRED MAINTENANCE PER GROSS SQUARE FOOT*

\$182

Per Gross Square Foot in FY 2018

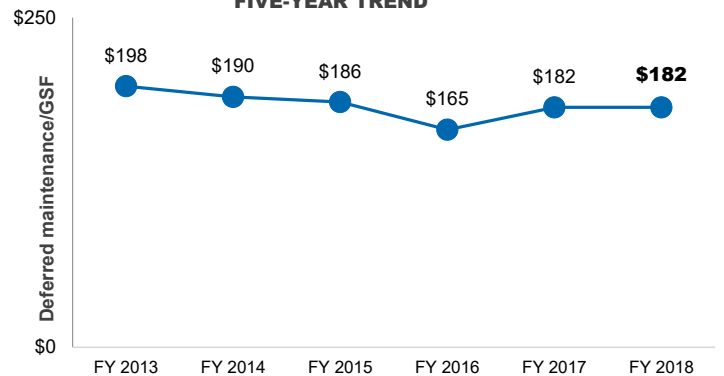
● 0%

One-year % change (vs. FY 2017)

▼ 8%

Five-year % change (vs. FY 2013)

FIVE-YEAR TREND



* Deferred Maintenance/GSF reflect educational & operations spaces only.

DEFINITIONS AND SOURCES

ACADEMIC QUALITY INDICATORS

Doctoral Degrees Awarded. Total number of Doctorates awarded by UMass campuses for the academic year 2016-17, which includes August/September, January/February and May award dates. These include both research/scholarship and professional practice doctorates. Aggregated across all UMass campuses for System total.

Total R&D Expenditures. Research and development (R&D) expenditures in all academic fields from all sources (federal, state, local governments, industry, private and institutional) as reported to NSF.

Patent Applications. Number of U.S. Patent applications filed per year. Data reported by campuses to UMass President's Office OTCV.

License Income. Amount of annual income from license agreements as reported to the Association of University Technology Managers for its annual survey.

Utilization of Shared HPC Cluster at MGHPC.

CPU Years. A CPU Year is simply the amount of computing work done by a 1 GFLOP reference machine in a year of dedicated service (8760 hours). FLOPS is a standard measure of computing power -- "Floating Point Operations Per Second". A GigaFlop (or Gflop) is a billion FLOPS. A 1 GFlop machine will do a billion operations in a second. A G-hour is the measure of computing work done by a one GFLOP machine in an hour (i.e., a G-hour is one billion FLOPS per second times 3,600 seconds in an hour which equals 3.6 trillion floating point operations). $3372 \text{ cpu years} \times 8770 \text{ hours/Gflop} \times 3,600,000 \text{ Gflop/hour} = 106,460,784,000,000 \text{ floating point operations completed by UMass researchers in 2015.}$

Number of Active Labs. The total number of MGHPC active user counts across the five UMass campuses.

ACCESS AND AFFORDABILITY INDICATORS

Tuition and Fees as a Percentage of Family Income. Tuition and mandatory fees for in-state undergraduates (FY 2018) as a percentage of state-wide median family income as reported by US Census in 2017 inflation-adjusted dollars (latest available). Comparative data are from IPEDS and US Census.

Percentage of Undergraduate Students from Massachusetts. Percentage of total

undergraduate students who are residents of Massachusetts.

Online Course Registrations and Annual Growth Rate. Total course enrollments in online courses. Percentage rate of growth in annual course registrations. Academic Year 2017-18 represents Fall 2017, Winter 2018, Spring 2018, and Summer 2018 enrollments. Data are for fully online (100%). Source: UMassOnline.

STUDENT SUCCESS AND SATISFACTION INDICATORS

Undergraduate Students of Color. Percent undergraduates who are Black/African American, Hispanic/Latino, Asian and/or Native American, divided by total U.S. citizens and permanent residents who report race/ethnicity. Comparative data for 2016 public high school graduates are from the MA Department of Education.

International Undergraduates. Percentage of all undergraduates who are non-resident aliens, studying at the university on an eligible visa types, and enrolled in credit courses. Does not include

permanent residents, refugees, or US citizens. Aggregated across all UMass campuses for System total.

Total Students Who Participated in a Study Abroad Program. Number of students who participated in a credit-bearing study abroad program outside of the U.S. over the most recent academic year, either at UMass or elsewhere.

DEFINITIONS AND SOURCES

SERVICE TO THE COMMONWEALTH INDICATORS

Enrollment of Massachusetts Residents.

Number of first-year undergraduates enrolling at each institution who are residents of Massachusetts. Data are from the Fall IPEDS Enrollment student residency table.

Enrollment by Region. In-state undergraduate enrollment by Massachusetts region. Data are from the DHE.

Degree Completions. The total number of degrees (not including associates and certificates) awarded in the academic year, by degree level. As reported to IPEDS. Aggregated across all UMass campuses for System total.

Awards Conferred by Field. Degrees conferred by UMass campuses by field. As reported to IPEDS.

UMass Degrees as Percent of all

Massachusetts Degrees. Degrees awarded by UMass as percent of total degrees awarded by colleges and universities in the state, based on IPEDS Completions data.

Percent of Graduates who live in

Massachusetts. Percentage of total UMass undergrad and grad degree recipients who currently reside in Massachusetts based on alumni records.

Enrollment in STEM Programs. Number of undergraduate and graduate enrollments in STEM fields. STEM fields are those defined in the National Science & Mathematics Access to Retain Talent (SMART) Grant with the exclusion of foreign languages. Aggregated across all UMass campuses for System total.

Degrees and Certificates Awarded in STEM Fields. Number of undergraduate and graduate degrees and certificates awarded in STEM fields. STEM fields are those defined in the National Science & Mathematics Access to Retain Talent (SMART) Grant with the exclusion of foreign languages. Aggregated across all UMass campuses for System total.

Degrees and Certificates Awarded in Healthcare Fields. Health Care designation as defined by Campus IR, and based on CIP classification. All of CIP 51 and specific 6-digit CIPs unique to each campus. Aggregated across all UMass campuses for System total.

MTEL Science & Math Test-Takers. Total number of students who took the Massachusetts Tests for Educator Licensure subject tests in science and math fields. Data compiled from the campuses' MTEL Annual Institution reports. Aggregated across all UMass campuses for System total.

FINANCIAL HEALTH INDICATORS

Endowment Assets and Annual Growth in

Endowment. The total value of the endowment (includes true and quasi-endowments) at the end of the fiscal year as reported in the UMass Annual BOT report, and the percent change from the previous year. Comparative data are from IPEDS, financial statements, and the NACUBO survey.

Private Funds Raised Annually. Private funds raised includes restricted and unrestricted revenues from individuals, foundations, corporations and other organizations. Includes private grant revenues but not private contract revenues. Totals for each year include pledges made in that year as well as the value of in-kind contributions. Data from the UMass Foundation Advancement Report to the Board of Trustees.

Primary Reserve. Unrestricted net assets as a percentage of total operating expenditures (operating expenditures and interest expense). Peer data are from published financial statements.

Procurement Savings. Procurement savings/enhanced services includes reduction in costs vs. previous year/contract and cost avoidance of projected cost increases as a result of the work of the Administrative E&E committee. Additionally, more features and services are offered to faculty, students and staff.

Bond Ratings. A grade provided by an independent financial institution that is determined by examining an array of factors such as the credit worthiness, ability to pay principal and interest, overall financial strength, etc. Agency bond ratings are from Moodys, S&P, and Fitch.

DEFINITIONS AND SOURCES

FINANCIAL HEALTH INDICATORS

Debt Service to Operations. Debt service payments as a percentage of total operating expenditures (operating expenditures plus interest expense). Peer data from published financial statements.

Total Deferred Maintenance (DM) Cost. Includes deferred and other maintenance dollars needed to maintain the current function of the campus. This is the amount needed to address the

deferred maintenance backlog plus the code work that would be mandated to allow the campus to continue to use the space once the repairs were complete. Adjusted each year for inflation.

DM Cost per Square Foot. The total deferred maintenance cost per square foot of space. This ratio quantifies the average dollar level of deferred maintenance work needed per square foot of space. Adjusted each year for inflation.

PEER INSTITUTIONS FOR UMASS SYSTEM

Peer University Systems

University of Connecticut
 University of California
 University of Colorado
 University of Illinois
 University of Maryland
 University of Missouri

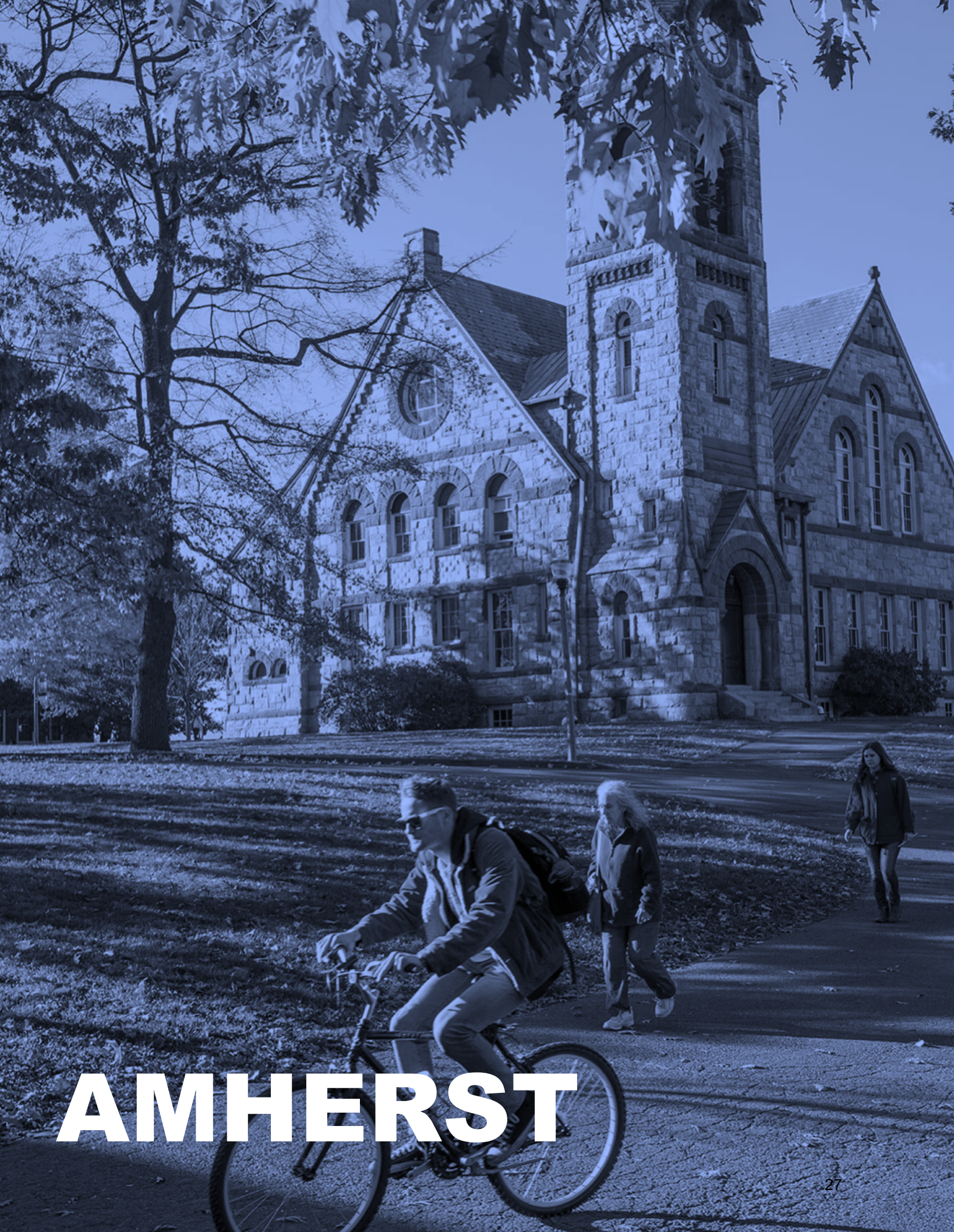
New England Public Universities

University of Connecticut
 University of Maine
 University of New Hampshire
 University of Rhode Island
 University of Vermont

Massachusetts Private Universities

Boston College
 Boston University
 Brandeis University
 Clark University
 Harvard University
 Massachusetts Institute of Technology
 Northeastern University
 Suffolk University
 Tufts University

Please Note: Unless otherwise specified, all data are from the UMPO - Office of Institutional Research.



AMHERST

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HEADLINES

ACADEMIC QUALITY

The Top American Research Universities (TARU - The Center) identifies nine performance indicators as measures of academic quality to evaluate the comparative performance of public and private research universities that generate over \$40 million in federal research annually. Included in this group are ten public research universities with a Carnegie classification of highest research activity with which UMass Amherst is comparing its progress on these and other indicators. All but two of the peers, the Universities of Connecticut and Delaware, are among the 62 members of the Association of American Universities (AAU). AAU institutions are recognized for their excellence in research and education. Therefore, the benchmark for the Amherst campus is quite high. In 2013, the University of Oregon, an AAU institution, replaced the University of Nebraska among UMass Amherst's institutional peers. Historical data have been adjusted to reflect this change.

Student Academic Quality. The academic profile of entering students has made impressive gains in recent years, evidenced by the growth in high school GPA and test scores. The high school GPA of entering students increased from 3.64 in 2011 to 3.90 in 2018. Virtually all (99%) students entered UMass Amherst with a high school GPA of 3.0 and above. Average SAT and ACT scores continue to increase. The SAT score exceeds the peer group at both the 25th and 75th percentiles for the fall 2018 entering class. Further, seniors report high satisfaction with their undergraduate experience. Results from the 2017 National Survey of Student Engagement (NSSE) show that 90% of seniors rated their UMass Amherst educational experience positively, and increasing numbers rated it as excellent.

Advanced Training. The campus has demonstrated strength in the education and training of pre- and post-doctoral researchers. UMass Amherst is below the peer median for the

number of doctoral degrees awarded. The number of post-doctorates receiving training has declined but has increased over the last two years. Some of the decreases can be attributed to the 2012 implementation of the campus's first post-doc collective bargaining agreement, which narrowed the definition of the post-doc category and increased salary and benefits.

Research and Creative Activity. Total research dollars (R&D) are key measures of an institution's commitment to, and success in research. UMass Amherst faculty have been successful in competing for these dollars. Total R&D spending increased by 11% over the last five years to over \$211 million. Per faculty expenditures are on the decline as the size of the faculty has been growing, but have still increased by 3% in the past five years.

The number of academic honors and awards earned by the faculty is another indicator of an institution's quality. The number of National Academy members has remained stable but continues to be below the peer median. The number of prominent grant and fellowship program awards decreased from a high in 2015 but remained above the peer median for 2017. A more comprehensive view of awards from Academic Analytics, another source of awards data, shows that UMass Amherst faculty have received over 1,000 nationally or internationally competitive awards.

In recent years, the campus invested in tenure-system faculty, and the number of faculty has grown by 5% since 2013. Nevertheless, it is considerably smaller than other top public research universities. Continued growth in the tenure-system faculty will be required for the campus to make significant progress in improving academic quality and research productivity, and to advance in the research university rankings.

ACCESS AND AFFORDABILITY

Providing an affordable and accessible education of high quality is central to the University's mission. In Fall 2017, 27% of full-time, in-state students qualified for Pell grants. Eighty-four percent of financial need was met for in-state students who

applied for aid. The campus continues to recognize its commitment to students with financial need and has increased institutional need-based aid accordingly.

HEADLINES

STUDENT SUCCESS AND SATISFACTION

Most UMass Amherst students have a positive educational experience. Ninety-one percent of students return for their sophomore year and 80% graduate within six years from UMass Amherst, the second highest graduation rate observed since the campus began tracking this statistic. The campus has seen a rapid improvement in the four-year graduation rate, which has increased from 63% for the Fall 2008 cohort to 76% for the Fall 2013 cohort. Retention and graduation rate improvement have closed the gap with peer institutions.

In recent years, the campus has made a major commitment to promoting student success, including the creation of the **Student Success** unit and newly created role of Associate Provost for Student Success. The campus has taken important steps in developing a cross-collaborative, coordinated approach within the Student Affairs and Campus Life unit and the Academic Affairs unit (the Associate Provost is a dual report to the Vice Chancellor for Student Affairs and Campus Life and the Senior Vice Provost and Dean of Undergraduate Education).

The University's dedication to student success includes the support of additional professional advisors and Student Success coordinators within the Schools and Colleges and partnering with the Education Advisory Board through its **Student Success Collaborative**. The Collaborative provides access to the predictive analytics coordinated care and advising platform, best practice research studies, and collaborative projects that will enhance the University's ability to understand and improve student academic pathways and student persistence and decrease barriers to degree progress. Using the platform, the Student Success unit oversees the **Early Alert** program which allows instructors to reach out to students struggling in their courses and connect those students in a coordinated manner with academic supports and success strategies. The Student Success unit also fortifies college-based **academic advising** by providing a year-round **Success@UMass professional development series** on best advising practices that support retention and degree completion. The series extends beyond major advising to build campus partnerships dedicated to historically marginalized students, including our First Generation College Students and Transfer Students. Our dedication to bettering advocacy, prevention and education

equip students to manage both their physical and mental health needs and coordinates networks of services that address the holistic needs that result in students' increased sense of belonging, a key component to student persistence.

A new position has been created (starting summer 2019), Associate Provost for **Career & Professional Development** in Central Career Services, to provide strategic leadership in the design, development, implementation, assessment, and direction of career and professional development-related programs and services. The programs and services will include expanded and integrated collaborations with alumni and employers to increase internships, co-ops, and post-graduate opportunities for students. The Associate Provost reports to the Senior Vice Provost and Dean of Undergraduate Education.

We have also organized a **Senior Completion Committee** comprised of representatives from Academic Affairs, Student Affairs and Campus Life, the Dean of Students Office, Financial Aid, and the Bursar's Office. This committee reviews students who are very close to graduating and are having difficulty meeting their final financial need to complete their degree. The committee works with students on an academic plan, a financial plan, and even can provide emergency grants to help support the student in their final semester or year toward degree Completion. **UMatter at UMass** continues to be an important initiative intended to increase students' connection to campus by affirming the values the university set in motion over 150 years ago: care, compassion and active engagement. Expanded research and scholarship opportunities are also available for undergraduates. Changes in the design and delivery of the General Education curriculum, including an integrative experience requirement for all upper division students and passage of new General Education Diversity learning outcomes (which took effect Fall 2018) also serve to enhance and enrich the student academic experience.

The campus has made progress in increasing the diversity of the student body. The Fall 2018 entering class was the most diverse group of students in history (32% ALANA); overall, almost three in ten undergraduates were students of color. Also, over one-fifth are the first in their families to

HEADLINES

STUDENT SUCCESS AND SATISFACTION

pursue a college degree. The campus will continue to attract a diverse student body and encourage greater appreciation for diverse populations.

SERVICE TO THE COMMONWEALTH

UMass Amherst has invested in programs to promote the enrollment and graduation of undergraduate and graduate students in the sciences and mathematics. In Fall 2018, nearly 40% of baccalaureate and over one-third of graduate students were enrolled in Science, Technology, Engineering and Mathematics (STEM) programs, and 33% of degrees awarded at the undergraduate and 34% of degrees awarded at the

graduate levels were in STEM programs. The STEM Diversity Institute (SDI), established in 2012 at UMass Amherst, facilitates the diversification of the science, technology, engineering, and mathematics (STEM) workforce. SDI activities serve undergraduate students, graduate students, postdoctoral fellows, and faculty. These investments will continue.

FINANCIAL HEALTH

The financial indicators of the Amherst campus demonstrate a commitment to prudent use and investment of state appropriation, student tuition and fees, and other income streams. The campus continues to support the academic enterprise by increasing growth in net revenues from graduate programs, increasing summer and continuing and professional education revenue, attracting more donor support and targeting small increases in out-of-state enrollment. Investment in capital infrastructure, strategic faculty growth, and student success initiatives remain cornerstones of the campus strategic plan. The strategic plan identifies three overarching themes: 1) establish the campus as a “destination of choice” for academically accomplished students; 2) establish the campus as a “partner of choice” with a broad range of stakeholders vital to the campus; 3) establish the campus as a community of choice that attracts and retains contributors of all kinds. Mobilizing resources to achieve these goals remains a key strategy, and annual unit plans must demonstrate they are aligned with these campus objectives.

The Office of Advancement has been working closely with our campaign readiness and feasibility consultant, Grenzebach, Glier & Associates (GG+A). To date, GG+A is actively processing data from a comprehensive Request for Materials and has conducted a Donor Insight Survey that was distributed to over 20,000 alumni. The Office of Advancement looks forward to reviewing a final readiness report from GG+A in the summer of 2019.

The campus completed UMass Rising in 2016. This comprehensive fundraising campaign raised \$379 million, exceeding its goal of \$300 million. In addition, a record \$50.3 million in new gift commitments was raised in the fiscal year following the campaign.

AT-A-GLANCE

ACADEMIC QUALITY

• Average HS GPA of Freshmen	3.90	• Total R&D Expenditures per Tenure System Faculty	\$190,216
• Average SAT Scores of Freshmen		• Patent Applications	43
Arithmetic Mean	1296	• License Income	\$706,843
25 th – 75 th Percentile	1200-1390	• Percent Tenured/Tenure-Track Faculty FTE	70%
• Average GPA of Entering Transfer Students	3.38	• New Tenured/Tenure-Track Faculty Hired	70
• Student Satisfaction with Educational Experience	90%	• As Percent of Total T/TT Faculty	7%
• Student-Faculty Ratio	17:1	• Change in Tenured/Tenure-Track Faculty	1%
• Technology-Enhanced Classrooms	304	• Change in Faculty FTE	4%
• No. of Doctoral Degrees Awarded	355	• Full-Time Instructional Faculty	
• No. of Research Doctoral Degrees Awarded	295	Percent Faculty-of-Color	24%
• No. of Postdoctoral Appointees	151	Percent Women Faculty	46%
• Total R&D Expenditures	\$211M	• Faculty Awards	12
• Total R&D Expenditures Ranking	104	• National Academy Members	8
• R&D Expenditures Ranking: Carnegie Peers, US Publics, Non-Medical	10		

ACCESS AND AFFORDABILITY

• Percent In-State Pell Grant Recipients	27%	• Percent Undergraduates from Students from MA	76%
• Percent of Need Met for In-State Students Awarded Need-Based Aid	84%	• Online Course Registrations	26,945
• Average Debt of Students (UG Graduating Class)	\$31,897	• Annual Growth in Online Course Registrations	2%
• Percent Graduating Class with Debt (UG)	67%		

AT-A-GLANCE

STUDENT SUCCESS AND SATISFACTION

• Percent Undergraduates who are Students of Color	29%	• Freshmen Four-Year Graduation Rate	76%
• Percent Undergraduates who are First Generation in College	21%	• Freshmen Six-Year Graduation Rate	80%
• Percent Undergraduates with English as a Second Language	16%	• Transfer (Full-time) One-Year Retention Rate	89%
• Percent Undergraduates who are International	7%	• Transfer (Upper Division) Four-Year Graduation Rate	77%
• Total Students who Participated in a Study Abroad Program	1,242	• Alumni Participation Rate	9%
• Freshmen One-Year Retention Rate	91%		

SERVICE TO THE COMMONWEALTH

• Degree Completions	8,205	• Degrees Awarded in STEM Fields	2,728 (33%)
<i>Bachelor's</i>	6333	<i>Undergraduate</i>	2,088 (33%)
<i>Master's</i>	1517	<i>Graduate</i>	640 (34%)
<i>Doctorates</i>	355	• Degrees Awarded in Healthcare Fields	771 (9%)
• Percent Alumni who Remain in MA	54%	<i>Undergraduate</i>	549 (9%)
• Enrollment in STEM Programs	11,436 (38%)	<i>Graduate</i>	222 (12%)
<i>Undergraduate</i>	9,138 (39%)	• MTEL Science and Math Test-Takers	28
<i>Graduate</i>	2,298 (35%)		

FINANCIAL HEALTH

• Total Endowment	\$347.0M	• Primary Reserve	35%
• Annual Growth in Endowment	7.2%	• Debt Ratio	7%
• Endowment per Annualized Student FTE	\$11,680	• Deferred Maintenance per GSF	\$128
• Private Funds Raised Annually	\$50.6M		

ACADEMIC QUALITY

AVERAGE HIGH-SCHOOL GPA OF FIRST-TIME FRESHMEN

3.90

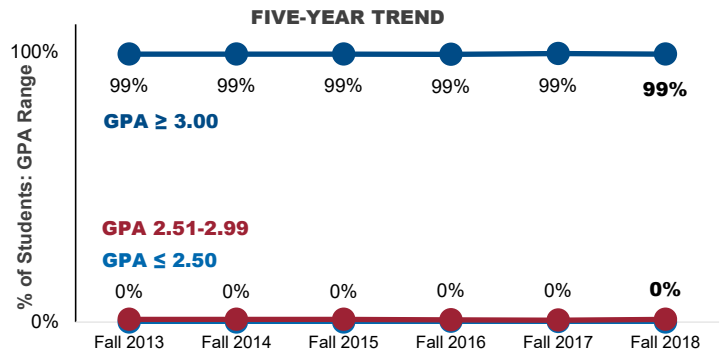
Average HS GPA in Fall 2018

▲ **0.01**

One-year nominal change (vs. Fall 2017)

▲ **0.17**

Five-year nominal change (vs. Fall 2013)



SAT SCORES OF FRESHMEN

1390

SAT Scores of Freshmen 75th Percentile in Fall 2018

▲ **30**

One-year nominal change (vs. Fall 2017)

6

75th Percentile Rank in Fall 2018

1200

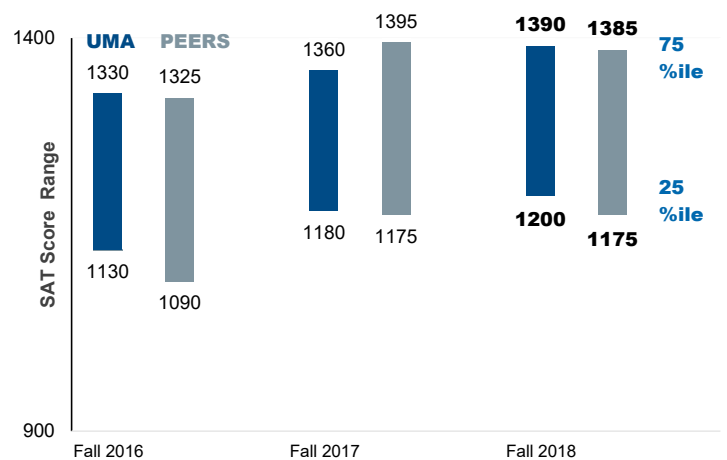
SAT Scores of Freshmen 25th Percentile in Fall 2018

▲ **20**

One-year nominal change (vs. Fall 2017)

5

25th Percentile Rank in Fall 2018

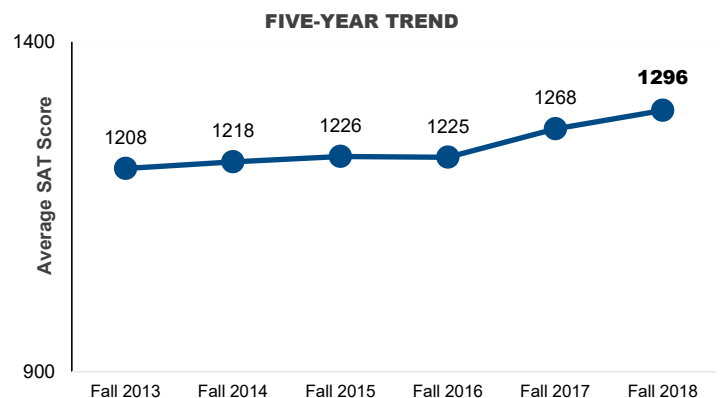


1296

Average SAT Scores of Freshmen in Fall 2018

▲ **28**

One-year nominal change (vs. Fall 2017)



ACADEMIC QUALITY

AVERAGE GPA OF ENTERING TRANSFER STUDENTS

3.38

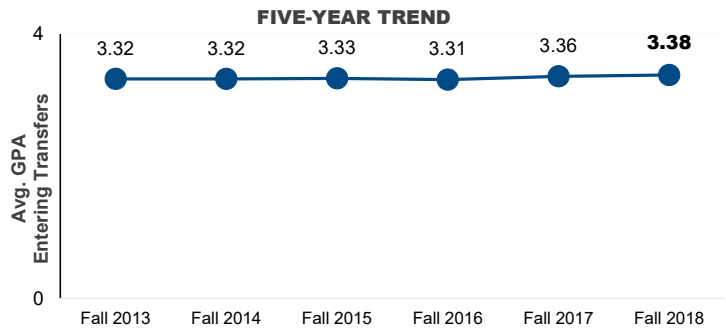
Average transfer GPA in Fall 2018

▲ **0.02**

One-year nominal change (vs. Fall 2017)

▲ **0.06**

Five-year nominal change (vs. Fall 2013)



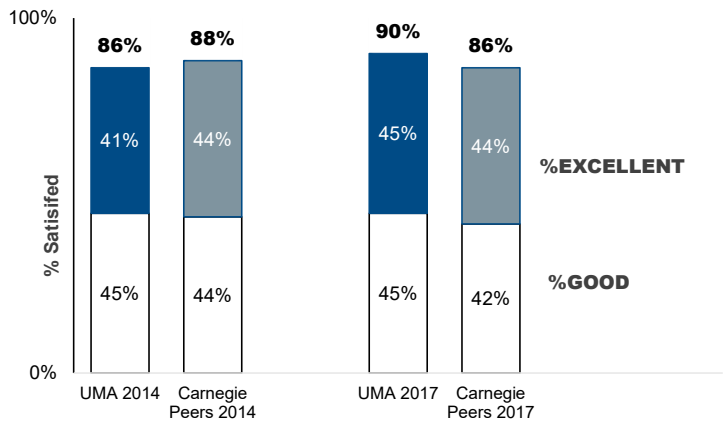
STUDENT SATISFACTION WITH EDUCATIONAL EXPERIENCE

90%

Student Satisfaction as Good or Excellent in UMA 2017

▲ **4**

Three-year % point change (vs. UMA 2014)



STUDENT-FACULTY RATIO

17:1

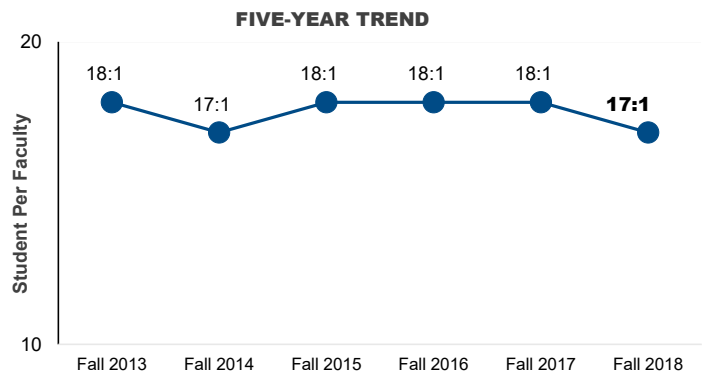
Student-Faculty Ratio in Fall 2018

▼ **1**

One-year nominal change (vs. Fall 2017)

▼ **1**

Five-year nominal change (vs. Fall 2013)



ACADEMIC QUALITY

TECHNOLOGY-ENHANCED CLASSROOMS

304

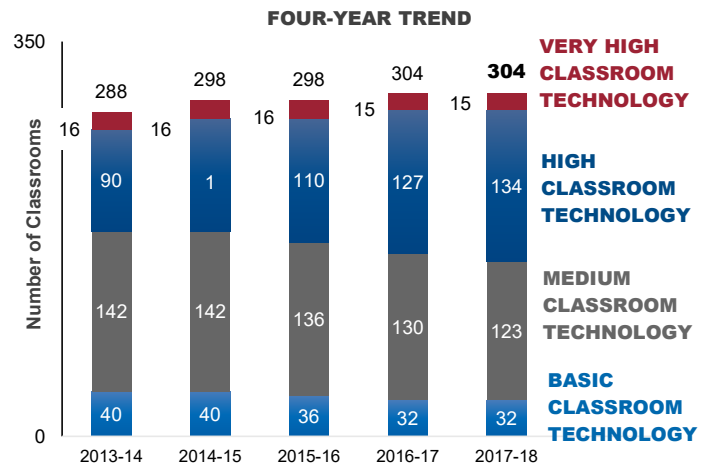
Total Technology Enhanced Classrooms in 2017-18

0%

One-year % change (vs. 2016-17)

▲ 6%

Four-year % change (vs. 2013-14)



DOCTORAL DEGREES AWARDED

355

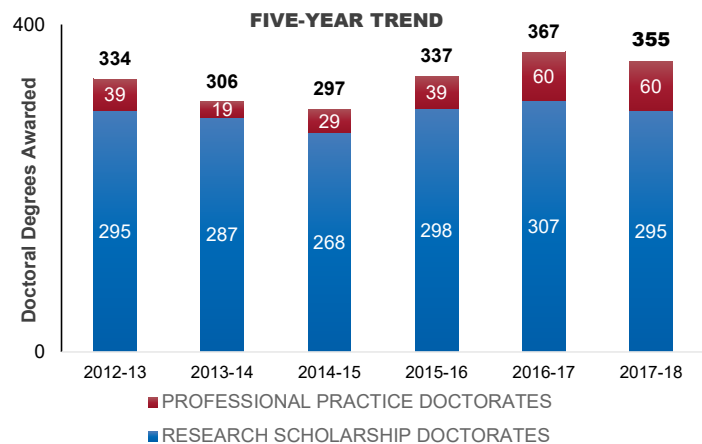
Doctoral Degrees Awarded in 2017-18

▼ 12

One-year nominal change (vs. 2016-17)

▲ 21

Five-year nominal change (vs. 2012-13)



295

Research Doctoral Degrees Awarded in 2017-18

▼ 12

One-year nominal change (vs. 2016-17)

• 0

Five-year nominal change (vs. 2012-13)

9

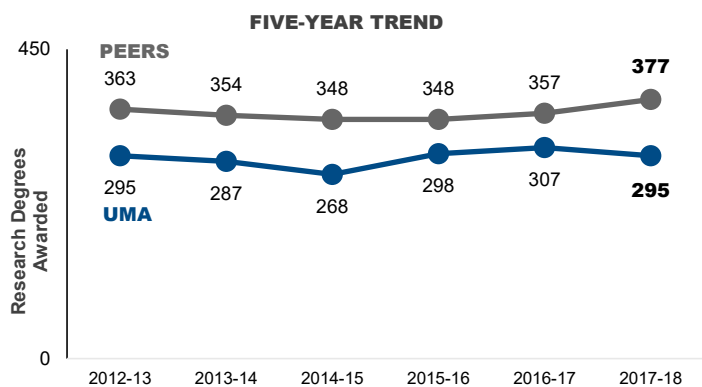
Research Doctorate Ranking out of 11 in 2017-18

• 0

One-year Rank change (vs. 2016-17)

• 0

Five-year Rank change (vs. 2012-13)



ACADEMIC QUALITY

POSTDOCTORAL APPOINTEES

151

Postdoctoral Appointees in 2017-18

▲ **19**

One-year nominal change (vs. 2016-17)

▼ **14**

Five-year nominal change (vs. 2012-13)

9

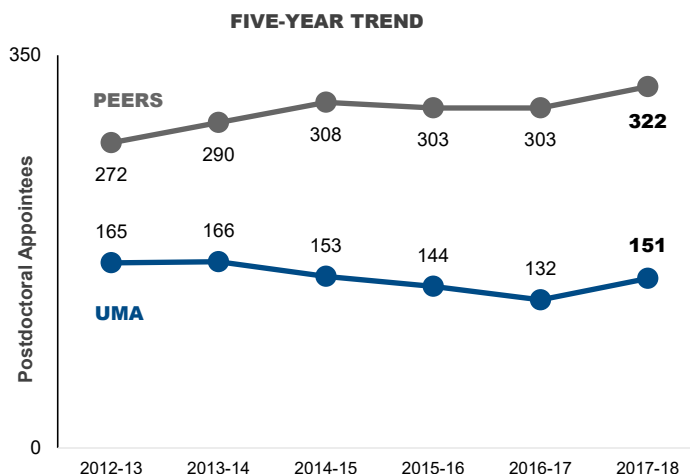
Research Doctorate Ranking OUT OF 11 in 2017-18

▲ **1**

One-year Rank change (vs. 2016-17)

▼ **1**

Five-year Rank change (vs. 2012-13)



TOTAL R&D EXPENDITURES

\$211

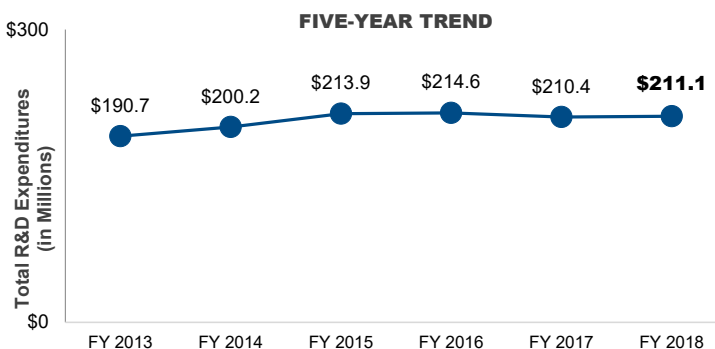
Million in FY 2018

● **0%**

One-year % change (vs. FY 2017)

▲ **11%**

Five-year % change (vs. FY 2013)



TOTAL R&D EXPENDITURES RANKINGS

104

Total R&D Expenditures Overall Rankings in FY 2017

▼ **3**

One-year nominal change (vs. FY 2016)

▼ **2**

Five-year nominal change (vs. FY 2012)

10

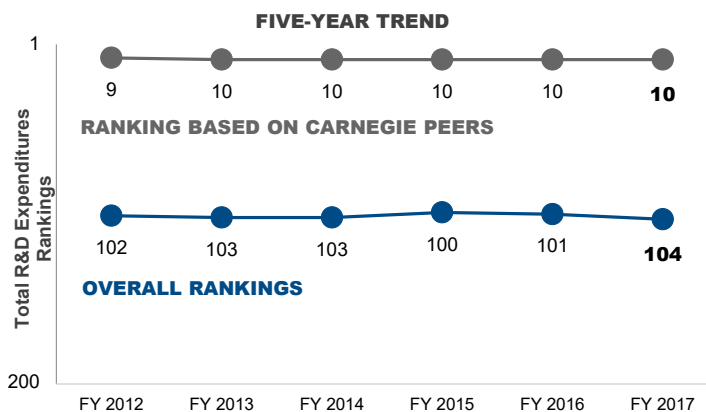
Carnegie Peers Rank (out of 26) in FY 2017

● **0**

One-year nominal change (vs. FY 2016)

▼ **1**

Five-year nominal change (vs. FY 2012)



Overall Ranking Source: National Science Foundation Ranking by Total R&D Expenditures.

Ranking based on Carnegie Peers is further standardized by US Publics and Non-Medical Schools.

ACADEMIC QUALITY

TOTAL R&D EXPENDITURES PER TENURED SYSTEM FACULTY

\$190k

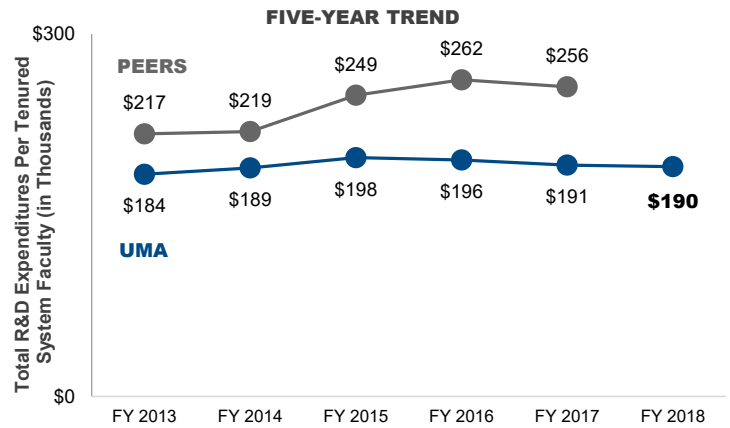
Total R&D Expenditure
Per Tenured
System Faculty
in FY 2018

▼ **1%**

One-year
% change
(vs. FY 2017)

▲ **3%**

Five-year
% change
(vs. FY 2013)



* Peer data for FY 2017 is currently not available.

NUMBER OF PATENT APPLICATIONS

43

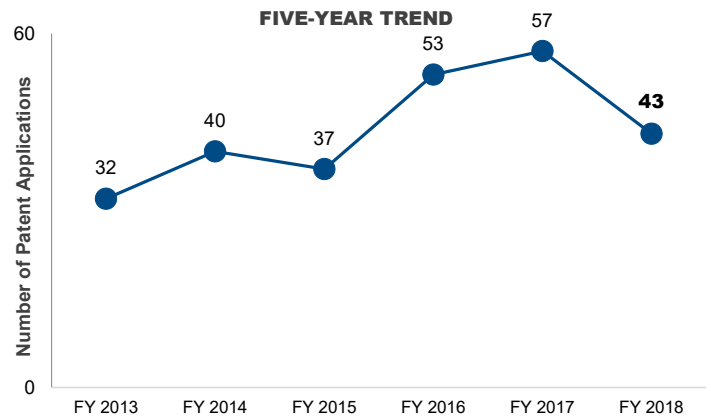
Patent
Applications
in FY 2018

▼ **14**

One-year
nominal change
(vs. FY 2017)

▲ **11**

Five-year
nominal change
(vs. FY 2013)



LICENSE INCOME

\$707k

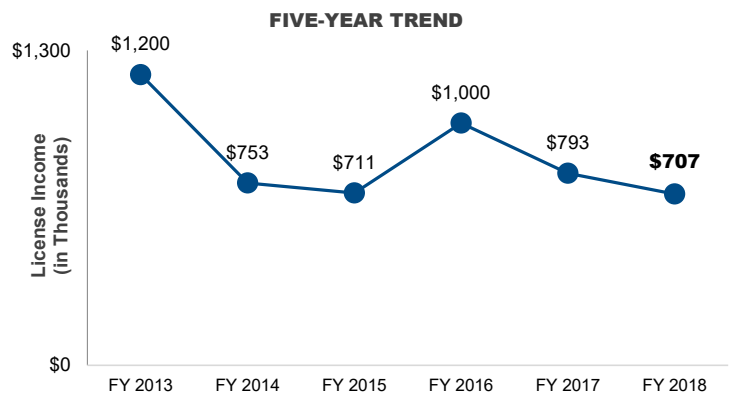
License Income
in FY 2018

▼ **11%**

One-year
% change
(vs. FY 2017)

▼ **41%**

Five-year
% change
(vs. FY 2013)



ACADEMIC QUALITY

PERCENT TENURED/TENURE-TRACK FACULTY FTE

70%

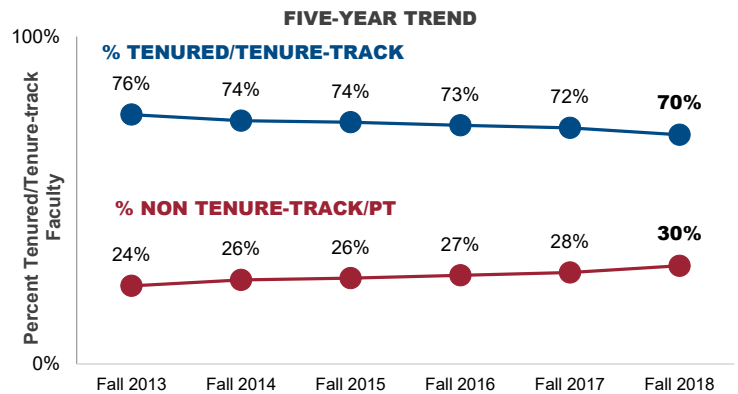
Percent Tenured/
Tenure-track Faculty
in Fall 2018

▼ **2**

One-year
% point change
(vs. Fall 2017)

▼ **6**

Five-year
% point change
(vs. Fall 2013)



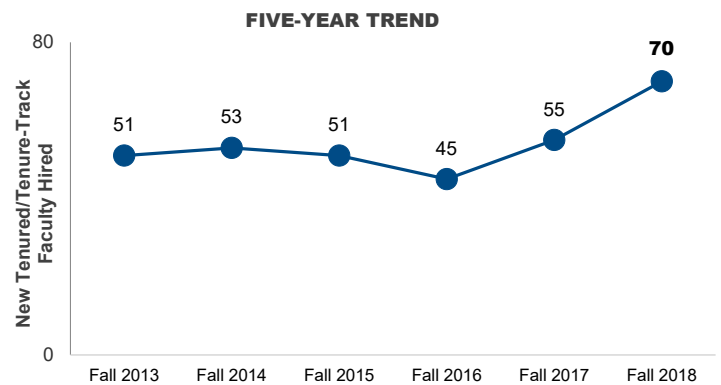
NEW TENURED/TENURE-TRACK FACULTY HIRED

70

New Tenured/
Tenure-Track
Faculty Hired
in Fall 2018

▲ **15**

One-year
nominal change
(vs. Fall 2017)



Data for "New Hires" is based on IPEDS definitions from 2016

NEW TENURED/TENURE-TRACK FACULTY HIRED AS PERCENT OF ALL TENURE-TRACK FACULTY

7%

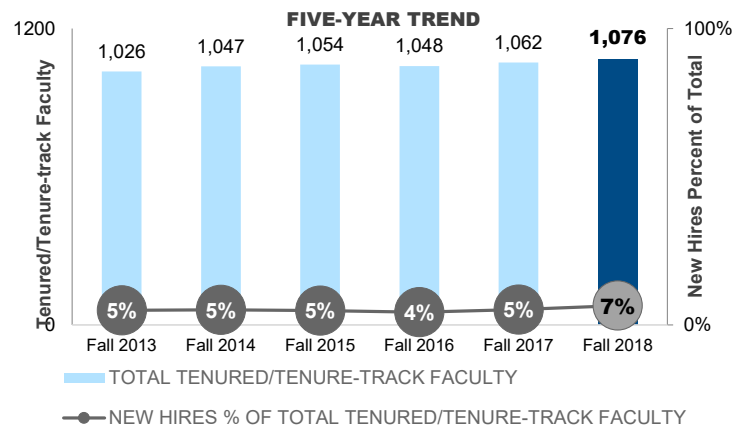
Percent New Tenured/
Tenure-Track Faculty
Hired
in Fall 2018

▲ **2**

One-year
% point change
(vs. Fall 2017)

▲ **2**

Five-year
% point change
(vs. Fall 2013)



Data for "New Hires" is based on IPEDS definitions from 2016

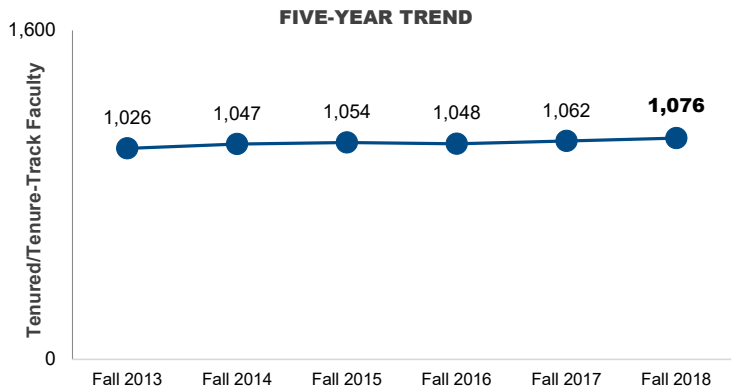
ACADEMIC QUALITY

TENURED/TENURE-TRACK FACULTY

1,076
Total Tenured/
Tenure-track Faculty
in Fall 2018

▲ **1%**
One-year
% change
(vs. Fall 2017)

▲ **5%**
Five-year
% change
(vs. Fall 2013)

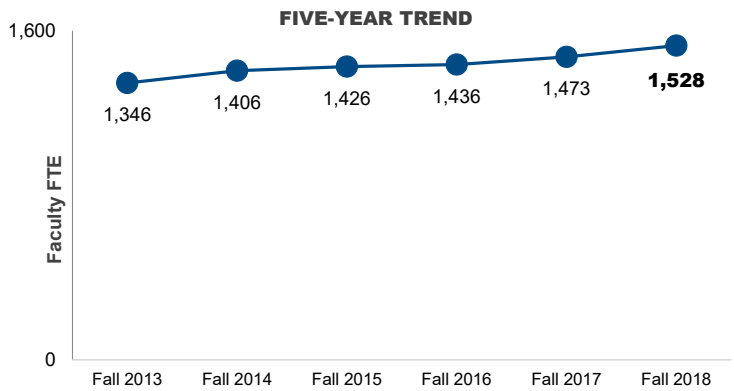


FACULTY FTE

1,528
Faculty FTE
in Fall 2018

▲ **4%**
One-year
% change
(vs. Fall 2017)

▲ **13%**
Five-year
% change
(vs. Fall 2013)



FACULTY-OF-COLOR

317
Faculty Of Color
in Fall 2018

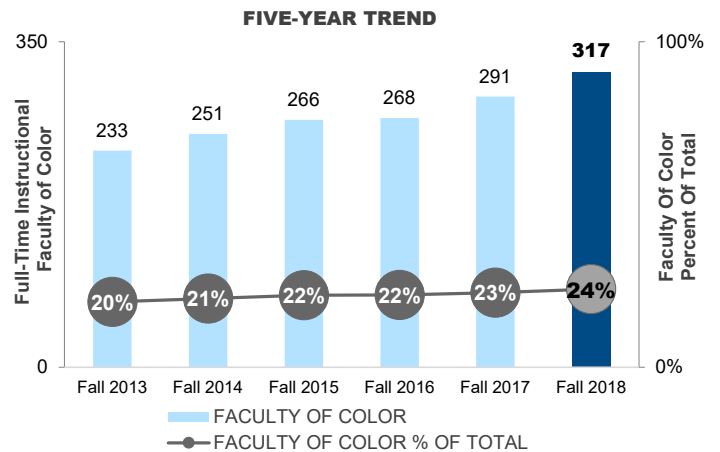
▲ **26**
One-year
nominal change
(vs. Fall 2017)

▲ **84**
Five-year
nominal change
(vs. Fall 2013)

24%
Percent of
Faculty Of Color
in Fall 2018

▲ **1**
One-year
% point change
(vs. Fall 2017)

▲ **4**
Five-year
% point change
(vs. Fall 2013)



Faculty-of-Color based on US Citizens/Permanent Residents reporting Race/Ethnicity according to new IPEDS definitions.

ACADEMIC QUALITY

WOMEN FACULTY

645

Women Faculty in Fall 2018

▲ **39**

One-year nominal change (vs. Fall 2017)

▲ **118**

Five-year nominal change (vs. Fall 2013)

46%

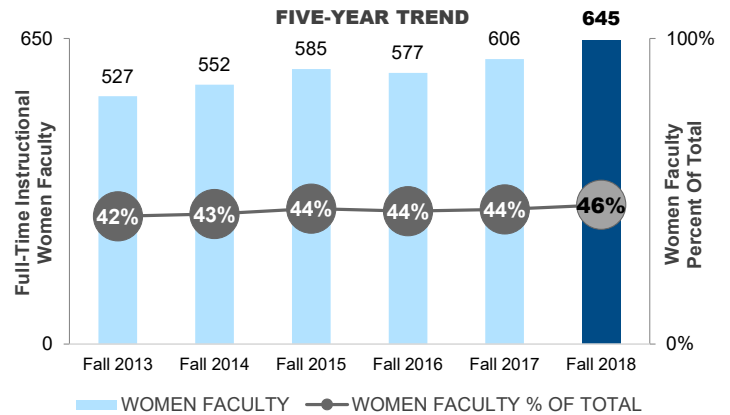
Percent of Faculty Of Color in Fall 2018

▲ **2**

One-year % point change (vs. Fall 2017)

▲ **4**

Five-year % point change (vs. Fall 2013)



FACULTY AWARDS

12

Faculty Awards in 2017

▲ **4**

One-year nominal change (vs. 2016)

▲ **4**

Five-year nominal change (vs. 2012)

5

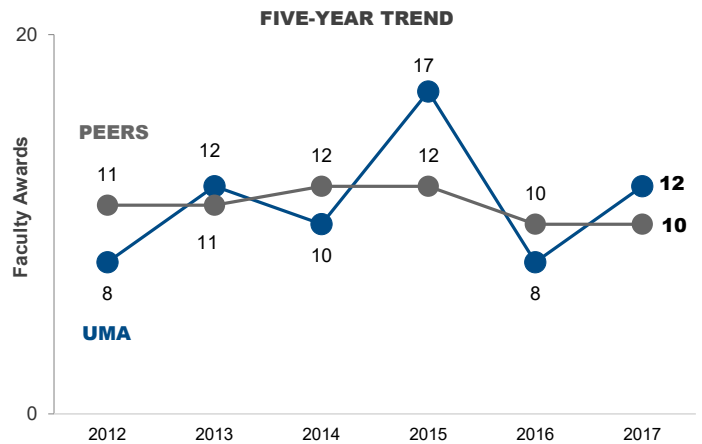
Carnegie Peers Rank (out of 26) in 2017

▲ **1**

One-year nominal change (vs. 2016)

▲ **4**

Five-year nominal change (vs. 2012)



Source : The Top American Research Universities

NATIONAL ACADEMY MEMBERS

8

National Academy Members in 2017

▼ **1**

One-year nominal change (vs. 2016)

● **0**

Five-year nominal change (vs. 2012)

9

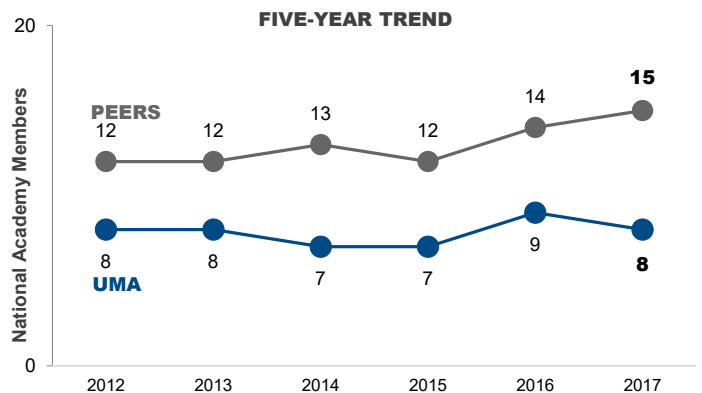
Carnegie Peers Rank (out of 26) in 2017

▼ **2**

One-year nominal change (vs. 2016)

▼ **1**

Five-year nominal change (vs. 2012)



Source : The Top American Research Universities

ACCESS AND AFFORDABILITY

PERCENT IN-STATE PELL GRANT RECIPIENTS

27%

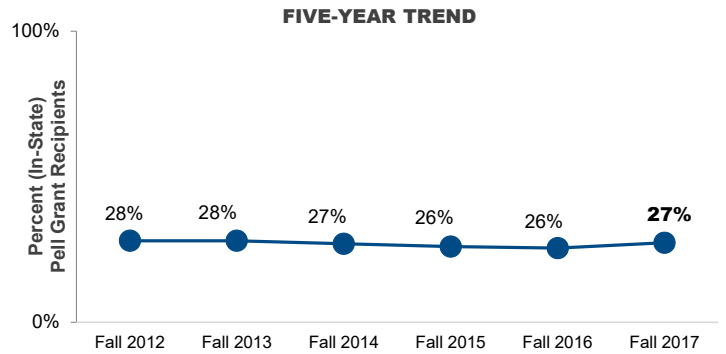
Percent (In-State) Pell Grant Recipients in Fall 2017

▲ 1

One-year % point change (vs. Fall 2016)

▼ 1

Five-year % point change (vs. Fall 2012)



PERCENT NEED MET FOR IN-STATE STUDENTS AWARDED NEED-BASED AID

84%

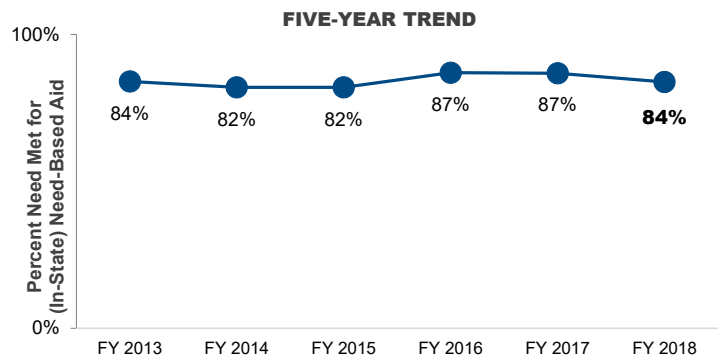
Percent Met for (In-state) Need-Based Aid in FY 2018

▼ 3

One-year % point change (vs. FY 2017)

● 0

Five-year % point change (vs. FY 2013)



UNDERGRADUATE STUDENT DEBT LOAD OF GRADUATING CLASS

\$32k

Average Debt Load in 2018

● 0%

One-year % change (vs. 2017)

▲ 10%

Five-year % change (vs. 2013)

67%

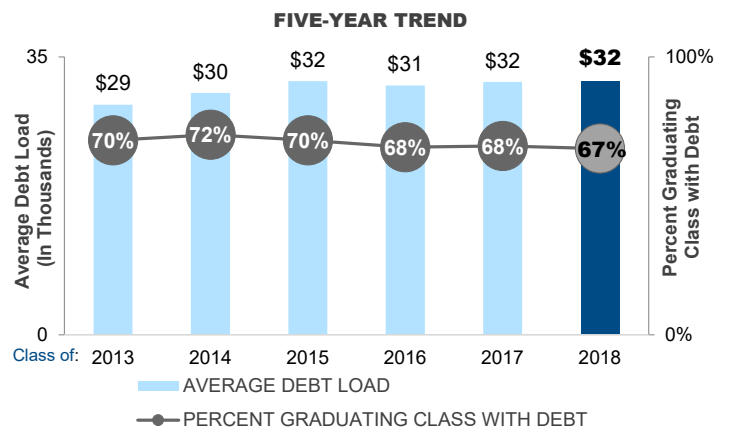
Percent Graduating Class with Debt in 2018

▼ 1

One-year % point change (vs. 2017)

▼ 3

Five-year % point change (vs. 2013)



ACCESS AND AFFORDABILITY

PERCENT UNDERGRADUATES FROM MASSACHUSETTS

17,879

Undergraduates from Massachusetts in Fall 2018

0%

One-year % change (vs. Fall 2017)

▲ 6%

Five-year % change (vs. Fall 2013)

76%

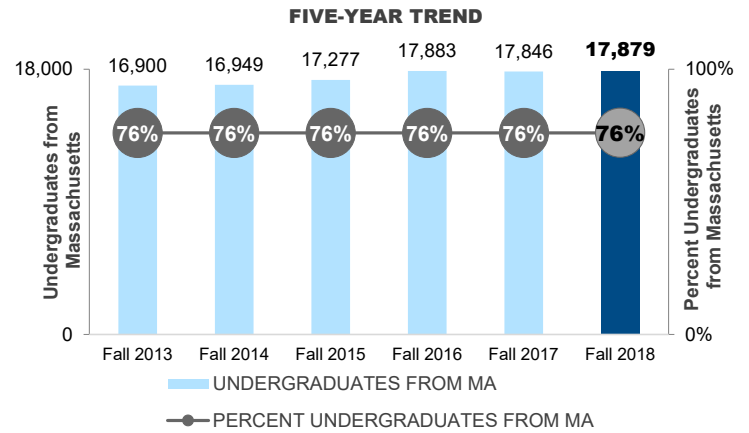
% Undergraduates from Massachusetts in Fall 2018

0

One-year % point change (vs. Fall 2017)

0

Five-year % point change (vs. Fall 2013)



ONLINE COURSE REGISTRATIONS

26,945

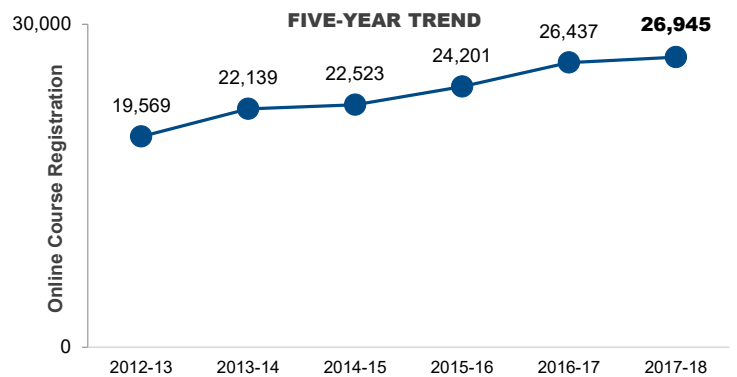
Online Course Registrations in 2017-18

▲ 2%

One-year % change (vs. 2016-17)

▲ 38%

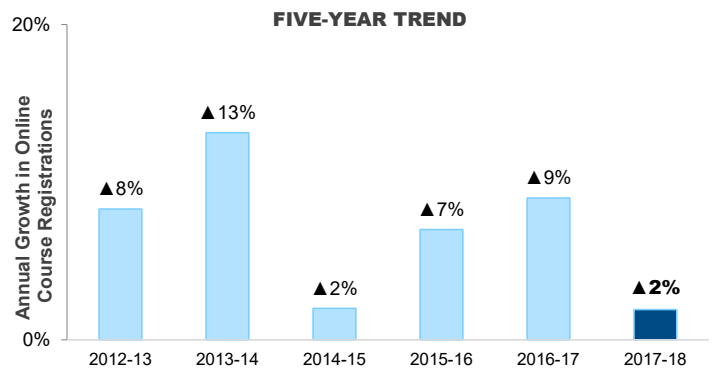
Five-year % change (vs. 2012-13)



ANNUAL GROWTH IN ONLINE COURSE REGISTRATIONS

2%

Annual Growth Online Course Registrations in 2017-18



STUDENT SUCCESS AND SATISFACTION

UNDERGRADUATE STUDENTS OF COLOR

5,822

Undergraduates
Students of Color
in Fall 2018

▲ **6%**

One-year
% change
(vs. Fall 2017)

▲ **41%**

Five-year
% change
(vs. Fall 2013)

29%

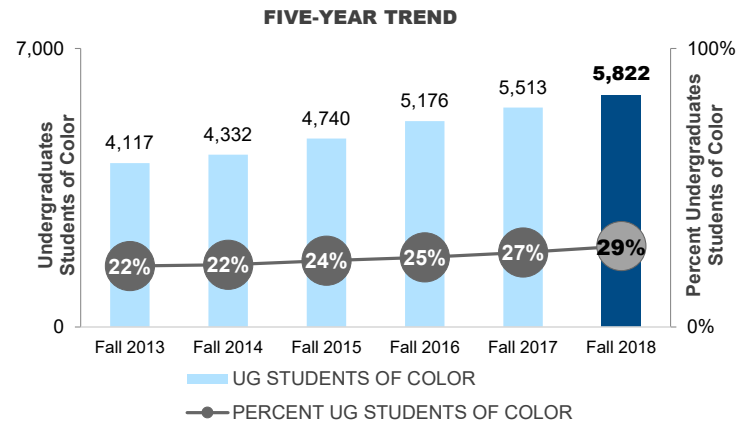
% Undergraduates
Students of Color
in Fall 2018

▲ **2**

One-year
% point change
(vs. Fall 2017)

▲ **7**

Five-year
% point change
(vs. Fall 2013)



PERCENT UNDERGRADUATES WHO ARE FIRST-GENERATION IN COLLEGE

21%

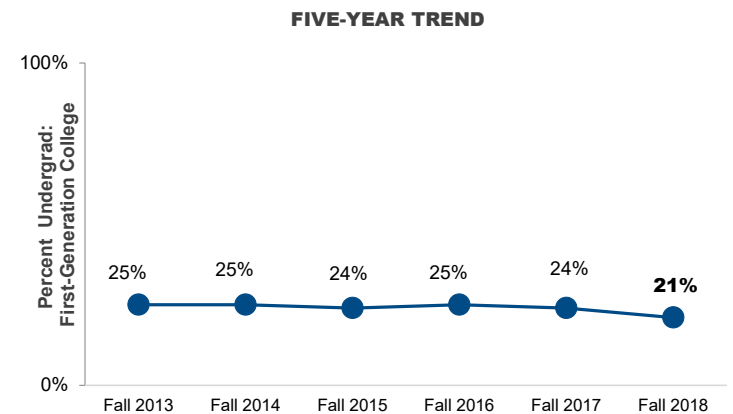
Percent Undergraduates
who are First-Generation
College
in Fall 2018

▼ **3**

One-year
% point change
(vs. Fall 2017)

▼ **4**

Five-year
% change
(vs. Fall 2013)



PERCENT FIRST-TIME, FULL-TIME UNDERGRADUATES WITH ENGLISH AS A SECOND LANGUAGE

16%

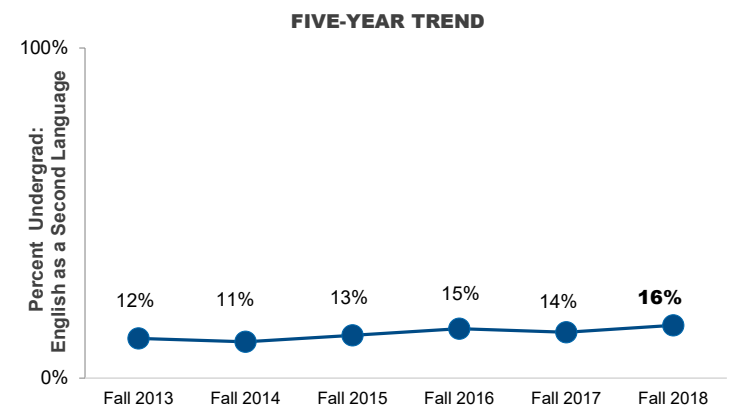
Percent Undergraduates
Speak English as a
Second Language
in Fall 2018

▲ **2**

One-year
% point change
(vs. Fall 2017)

▲ **4**

Five-year
% point change
(vs. Fall 2013)



STUDENT SUCCESS AND SATISFACTION

INTERNATIONAL UNDERGRADUATES

1,686

International UG Enrollment in Fall 2018

▲ 16%

One-year % change (vs. Fall 2017)

▲ 214%

Five-year % change (vs. Fall 2013)

7%

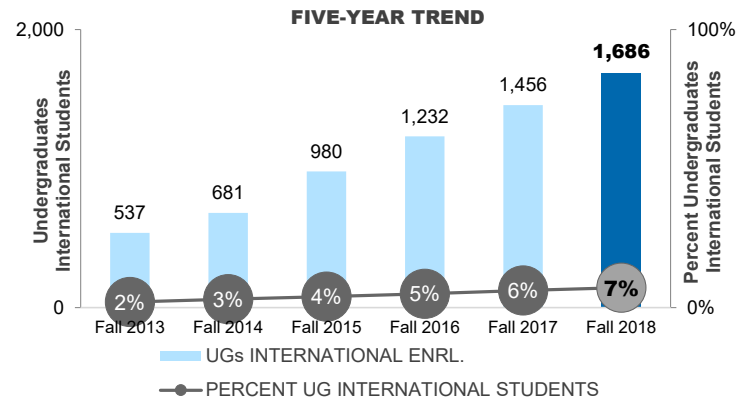
% International UG Enrollment in Fall 2018

▲ 1

One-year % point change (vs. Fall 2017)

▲ 5

Five-year % point change (vs. Fall 2013)



TOTAL STUDENTS WHO PARTICIPATED IN A STUDY ABROAD PROGRAM

1,242

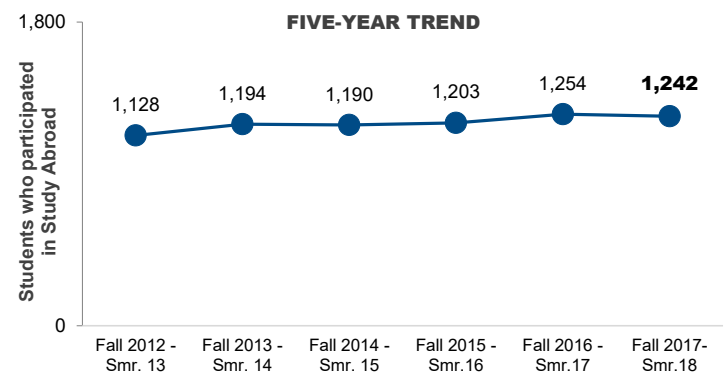
Students who participated in Study Abroad in Fall 2017-Smr.18

▼ 12

One-year nominal change vs. Fall 2016 -Smr.17

▲ 114

Five-year nominal change vs. Fall 2012 -Smr. 13



FRESHMEN ONE-YEAR RETENTION RATE

91%

Freshmen One-Year Retention Rate in Fall 2018

● 0

One-year % point change in Fall 2017

▲ 2

Five-year point in Fall 2013

5

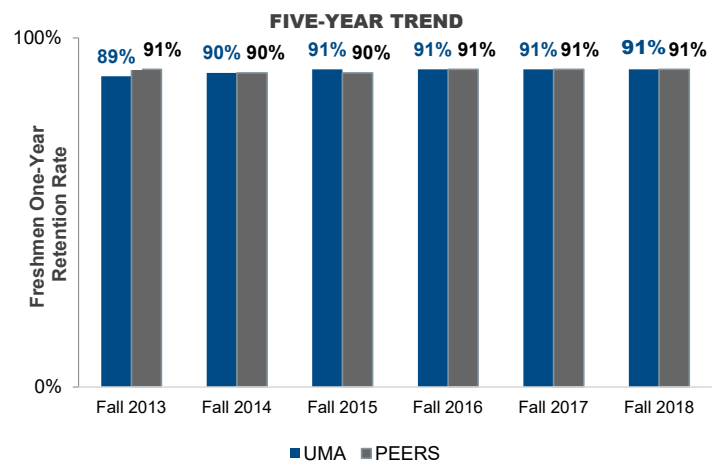
Rank based on Carnegie Peers in Fall 2018

● 0

One-year nominal change in Fall 2017

▲ 3

Five-year nominal change in Fall 2013



* Peer data for not available for reporting purposes.

STUDENT SUCCESS AND SATISFACTION

FRESHMEN FOUR-YEAR GRADUATION RATES

76%

Freshmen Four-Year Graduation Rates in 2018

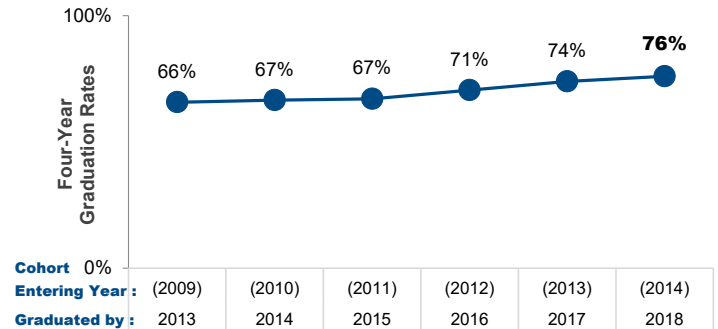
▲ **2**

One-year % point change (vs. 2017)

▲ **10**

Five-year % point change (vs. 2013)

FIVE-YEAR TREND



FRESHMEN SIX-YEAR GRADUATION RATE

80%

Freshmen Six-Year Graduation Rates in Fall 2018

▲ **3**

One-year % point change (vs. Fall 2017)

▲ **7**

Five-year % point change (vs. Fall 2013)

79%

Peers Freshmen Six-Year Graduation Rates in Fall 2018

● **0**

One-year % point change (vs. Fall 2017)

▲ **4**

Five-year % point change (vs. Fall 2013)

6

Carnegie Peers Rank (out of 26) in Fall 2018

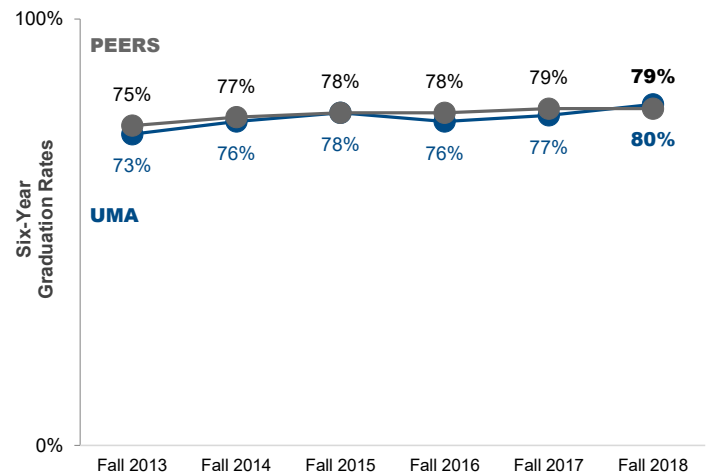
▲ **1**

One-year nominal change (vs. Fall 2017)

● **0**

Five-year nominal change (vs. Fall 2013)

FIVE-YEAR TREND



TRANSFER (FULL-TIME) ONE-YEAR RETENTION RATE

89%

Transfers (Full-time) One-Year Retention Rate in Fall 2018

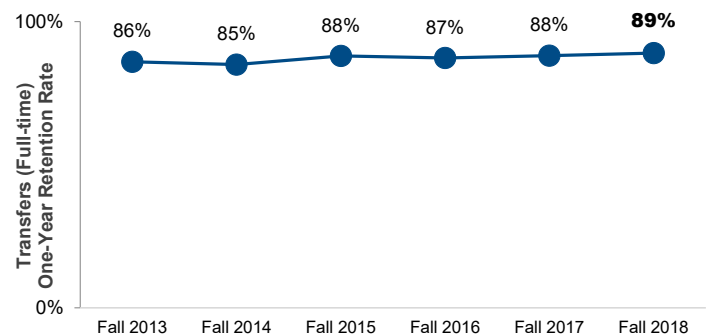
▲ **1**

One-year % point change (vs. Fall 2017)

▲ **3**

Five-year % point change (vs. Fall 2013)

FIVE-YEAR TREND



STUDENT SUCCESS AND SATISFACTION

TRANSFER (UPPER DIVISION) FOUR-YEAR GRADUATION RATE

77%

Transfers (Upper Division) Four-Year Graduation Rates in Fall 2018

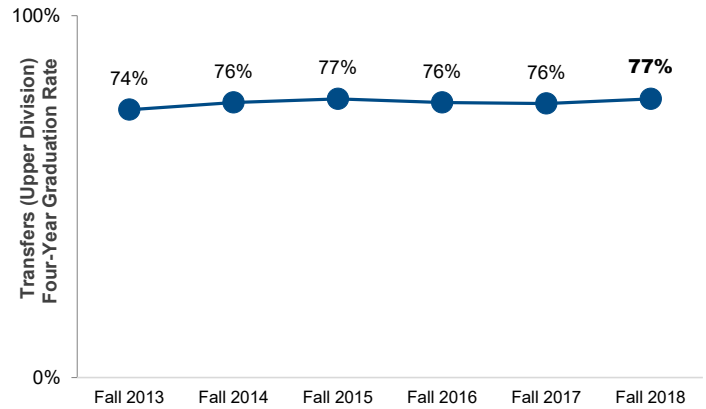
▲ 1

One-year % point change (vs. Fall 2017)

▲ 3

Five-year % point change (vs. Fall 2013)

FIVE-YEAR TREND



STUDENT ACHIEVEMENT MEASURE

Cohort Starting in 2012-13

76%

Bachelor's Degree within 4-years from any institution

87%

Bachelor's Degree within 5-years from any institution

89%

Bachelor's Degree within 6-years from any institution

71%

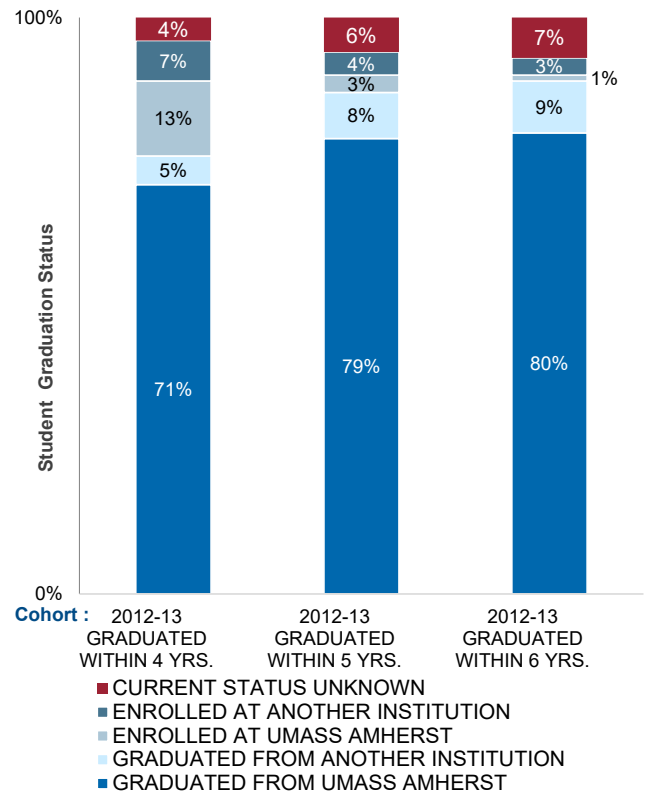
Bachelor's Degree within 4-years from UMass Amherst

79%

Bachelor's Degree within 5-years from UMass Amherst

80%

Bachelor's Degree within 6-years from UMass Amherst



Source: Student Achievement Measure (SAM)

STUDENT SUCCESS AND SATISFACTION

ALUMNI PARTICIPATION RATE

9%

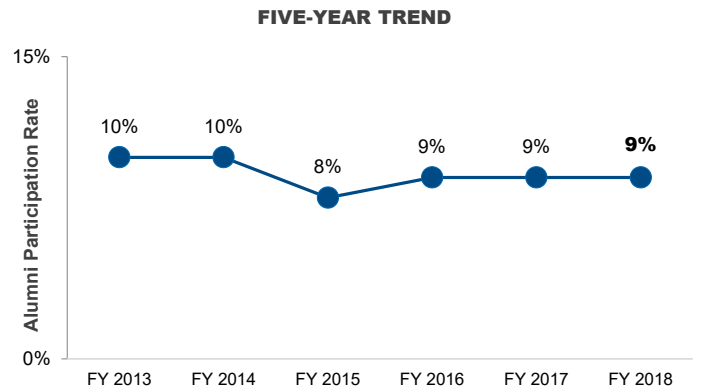
Alumni Participation Rate in FY 2018

. 0

One-year % point change (vs. FY 2017)

▼ 1

Five-year % point change (vs. FY 2013)



DEGREE COMPLETIONS

8,205

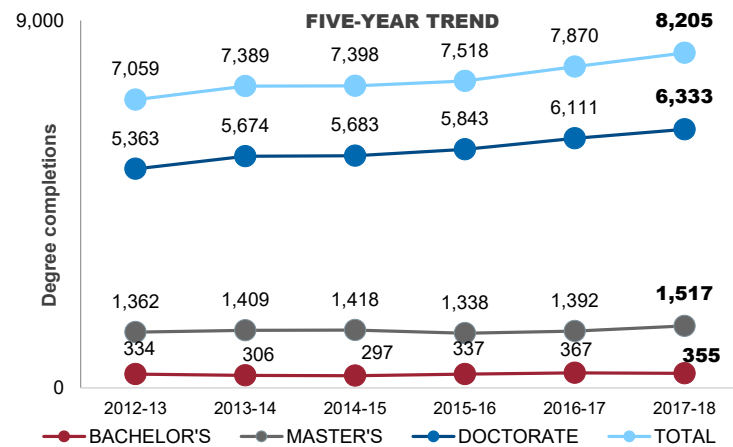
Total degree completions 2017-18

▲ 4%

One-year % change in total degree completions (vs. 2016-17)

▲ 16%

Five-year % change in total degree completions (vs. 2012-13)



PERCENT ALUMNI WHO LIVE IN MASSACHUSETTS

54%

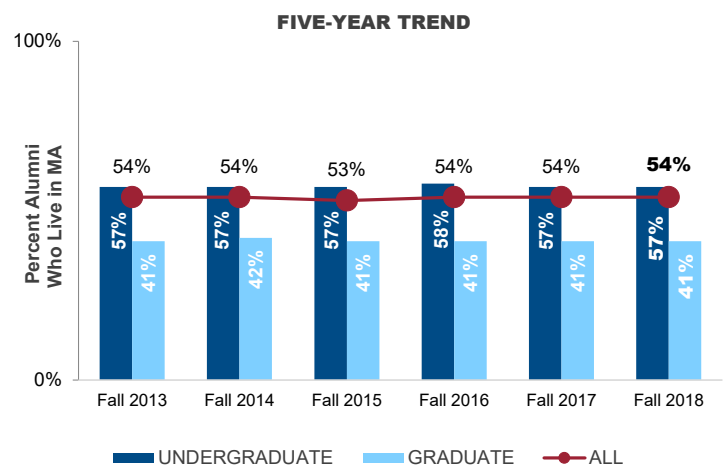
Of all UMass Alumni live in the Commonwealth in Fall 2018

. 0

One-year % point change (vs. Fall 2017)

. 0

Five-year % point change (vs. Fall 2013)



SERVICE TO THE COMMONWEALTH

ENROLLMENT IN STEM PROGRAMS

9,138

UG enrollment in STEM fields in Fall 2018

▲ **1%**

One-year % change (vs. Fall 2017)

▲ **23%**

Five-year % change (vs. Fall 2013)

39%

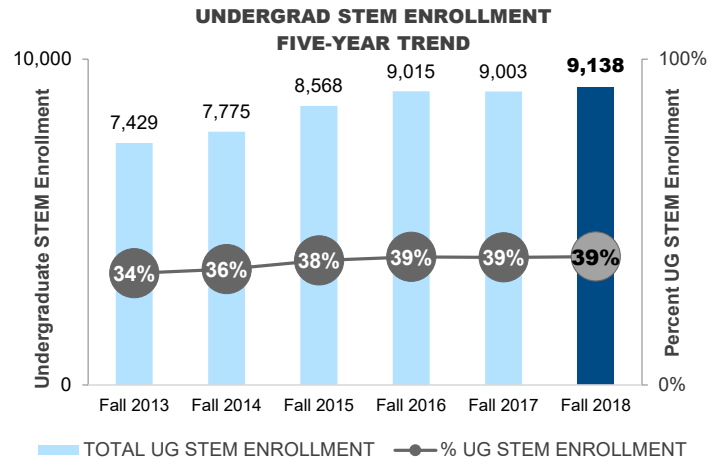
Percent of total UG enrollment in STEM fields in Fall 2018

● **0**

One-year % point change (vs. Fall 2017)

▲ **5**

Five-year % point change (vs. Fall 2013)



2,298

Grad enrollment in STEM fields in Fall 2018

▲ **5%**

One-year % change (vs. Fall 2017)

▲ **23%**

Five-year % change (vs. Fall 2013)

35%

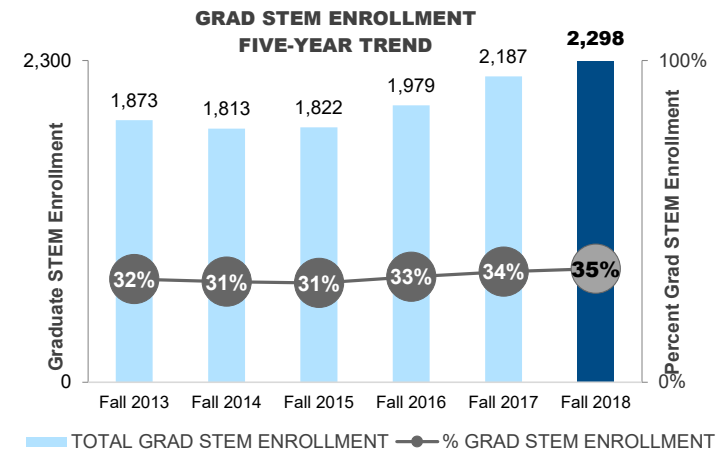
Percent of total Grad enrollment in STEM fields in Fall 2018

▲ **1**

One-year % point change (vs. Fall 2017)

▲ **3**

Five-year % point change (vs. Fall 2013)



11,436

Total enrollment in STEM fields in Fall 2018

▲ **2%**

One-year % change (vs. Fall 2017)

▲ **23%**

Five-year % change (vs. Fall 2013)

38%

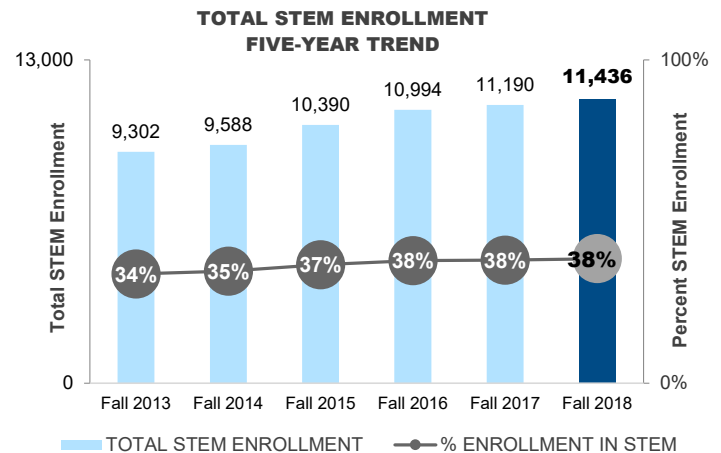
Percent of total enrollment in STEM fields in Fall 2018

● **0**

One-year % point change (vs. Fall 2017)

▲ **4**

Five-year % point change (vs. Fall 2013)



SERVICE TO THE COMMONWEALTH

DEGREES AWARDED IN STEM FIELDS

2,088

UG degrees awarded in STEM fields in 2017-18

▲ **6%**

One-year % change (vs. 2016-17)

▲ **45%**

Five-year % change (vs. 2012-13)

33%

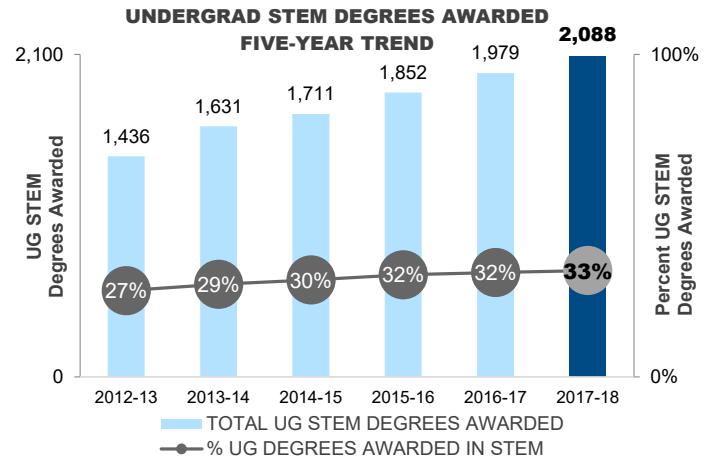
Percent of total UG degrees awarded in STEM fields in 2017-18

▲ **1**

One-year % point change (vs. 2016-17)

▲ **6**

Five-year % point change (vs. 2012-13)



640

Grad degrees awarded in STEM fields in 2017-18

▲ **23%**

One-year % change (vs. 2016-17)

▲ **43%**

Five-year % change (vs. 2012-13)

34%

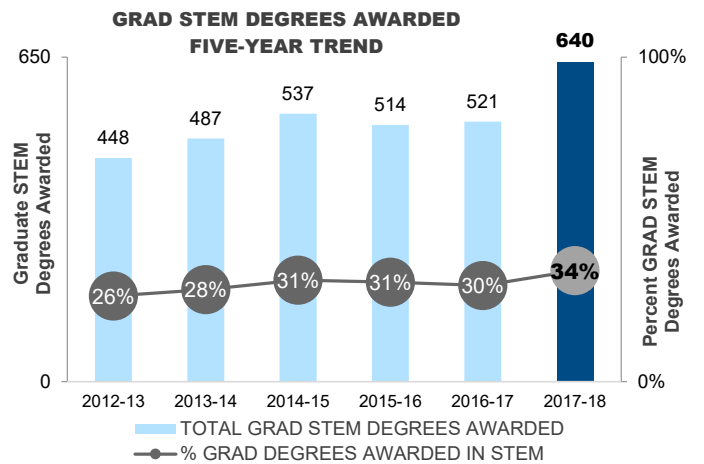
Percent of total Grad degrees awarded in STEM fields in 2017-18

▲ **4**

One-year % point change (vs. 2016-17)

▲ **8**

Five-year % point change (vs. 2012-13)



2,728

Total degrees awarded in STEM fields in 2017-18

▲ **9%**

One-year % change (vs. 2016-17)

▲ **45%**

Five-year % change (vs. 2012-13)

33%

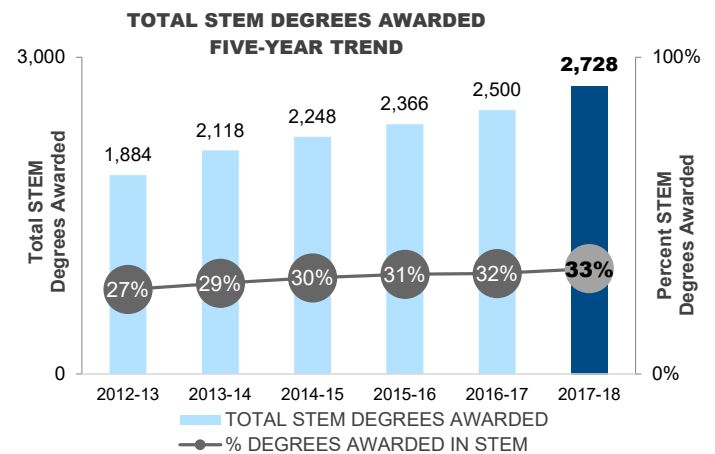
Percent of Total degrees awarded in STEM fields in 2017-18

▲ **1**

One-year % point change (vs. 2016-17)

▲ **6**

Five-year % point change (vs. 2012-13)



SERVICE TO THE COMMONWEALTH

CERTIFICATES AWARDED IN STEM FIELDS

61
Total Certificates awarded in STEM fields in 2017-18

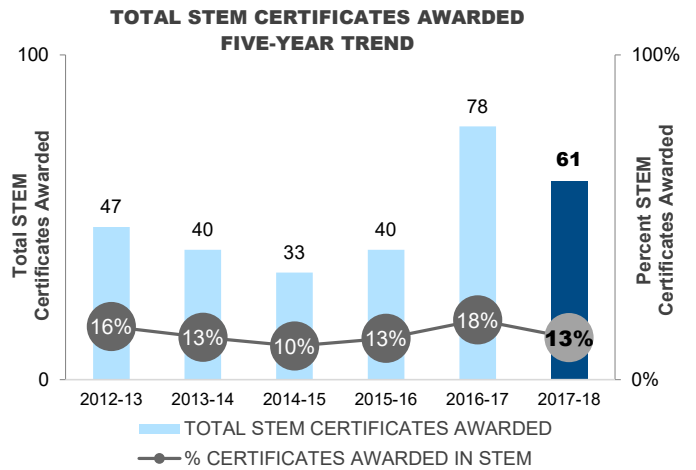
▼ **17**
One-year nominal change (vs. 2016-17)

▲ **14**
Five-year nominal change (vs. 2012-13)

13%
Percent of Total Certificates awarded in STEM fields in 2017-18

▼ **5**
One-year % point change (vs. 2016-17)

▼ **3**
Five-year % point change (vs. 2012-13)

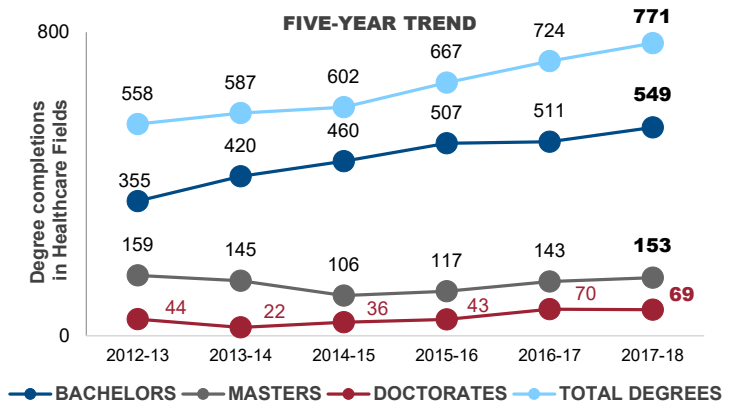


DEGREES AWARDED IN HEALTHCARE FIELDS

771
Total degrees awarded in HealthCare fields in 2017-18

▲ **6%**
One-year % change (vs. 2016-17)

▲ **38%**
Five-year % change (vs. 2012-13)

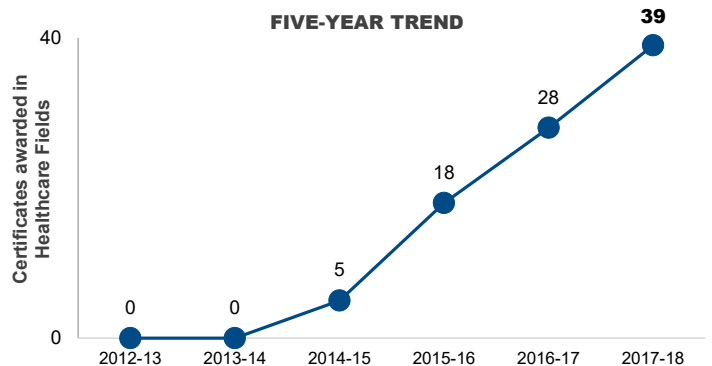


CERTIFICATES AWARDED IN HEALTHCARE FIELDS

39
Total Certificates awarded in HealthCare fields in 2017-18

▲ **11**
One-year nominal change (vs. 2016-17)

▲ **39**
Five-year nominal change (vs. 2012-13)



SERVICE TO THE COMMONWEALTH

MTEL SCIENCE AND MATH TEST-TAKERS

28

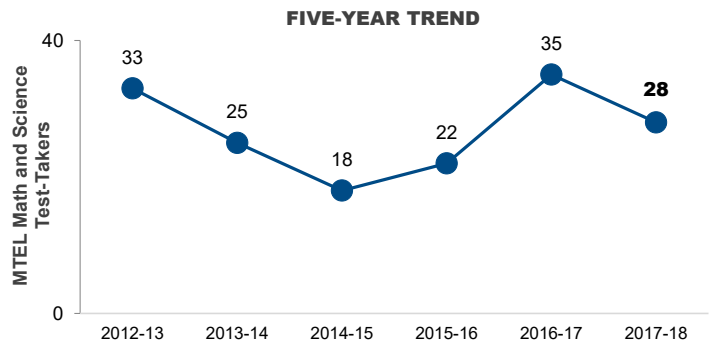
MTEL Math and Science Test-Takers in 2017-18

▼ 7

One-year nominal change (vs. 2016-17)

▼ 5

Five-year nominal change (vs. 2012-13)



FINANCIAL HEALTH

ENDOWMENT ASSETS AND ANNUAL GROWTH IN ENDOWMENT

\$347M

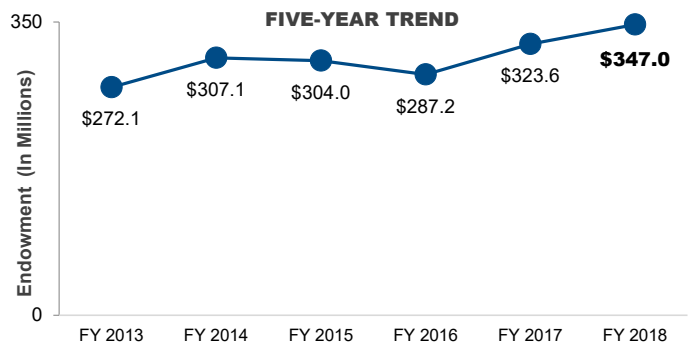
Endowment Assets in FY 2018

▲ 7%

One-year % change (vs. FY 2017)

▲ 28%

Five-year % change (vs. FY 2013)



7.2%

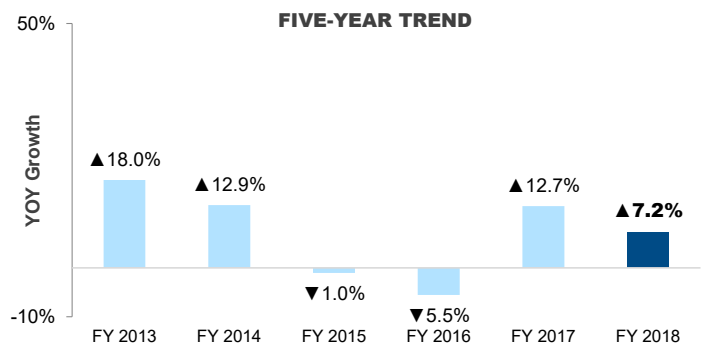
Annual Growth in FY 2018

▼ 5.4

One-year % point change (vs. FY 2017)

▼ 10.8

Five-year % point change (vs. FY 2013)



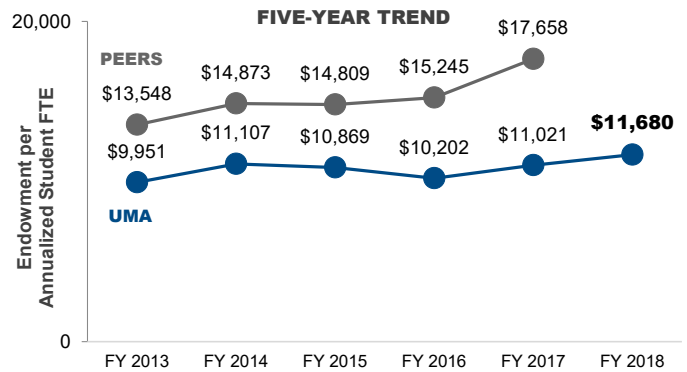
FINANCIAL HEALTH

ENDOWMENT PER ANNUALIZED STUDENT FTE

\$12k
Endowment per Annualized Student FTE in FY 2018

▲ 6%
One-year % change (vs. FY 2017)

▲ 17%
Five-year % change (vs. FY 2013)



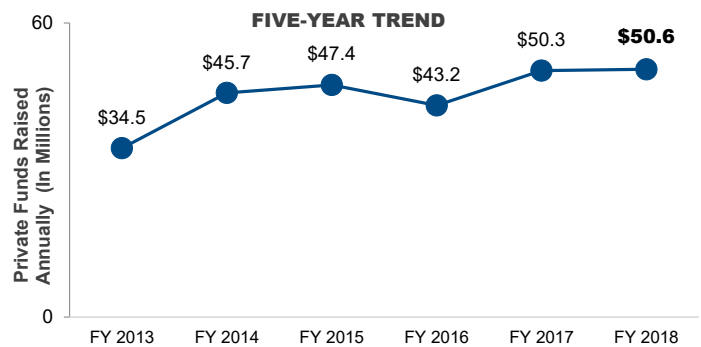
* Peer data for FY 2018 not available for reporting purposes.

PRIVATE FUNDS RAISED ANNUALLY

\$50.6M
Private Funds Raised Annually in FY 2018

▲ 1%
One-year % change (vs. FY 2017)

▲ 47%
Five-year % change (vs. FY 2013)

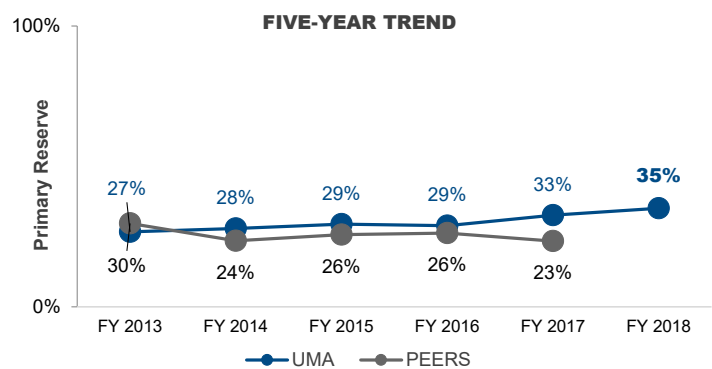


PRIMARY RESERVE

35%
Primary Reserve in FY 2018

▲ 2
One-year % point change (vs. FY 2017)

▲ 8
Five-year % point change (vs. FY 2013)



* Peer data for FY 2018 not available for reporting purposes.

FINANCIAL HEALTH

DEBT SERVICE TO OPERATIONS

7%

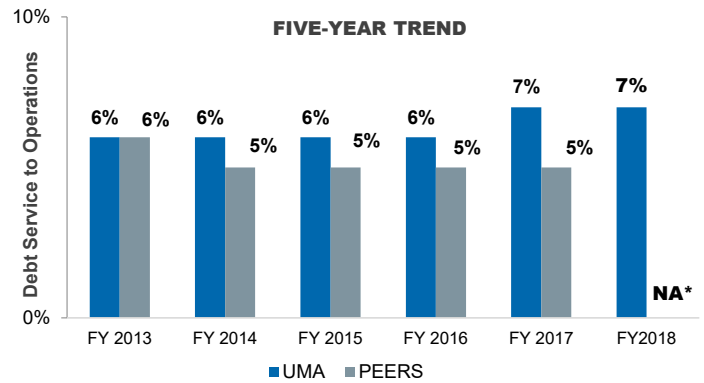
Debt Service to Operations in FY2018

0

One-year % point change (vs. FY 2017)

1

Five-year % point change (vs. FY 2013)



* Peer data for FY2018 not available for reporting purposes.

DEFERRED MAINTENANCE PER GROSS SQUARE FOOT

\$128

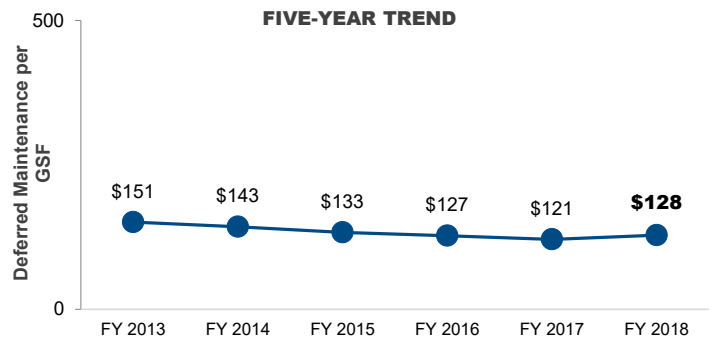
Deferred Maintenance Per Gross Square Foot in FY 2018

6%

One-year % change (vs. FY 2017)

15%

Five-year % change (vs. FY 2013)



DEFINITIONS AND SOURCES

ACADEMIC QUALITY INDICATORS

Average High School GPA of First-Time

Freshmen. Cumulative GPA for college prep courses with additional weight to honors and AP courses, according to DHE admissions policy, reported on all first-time students.

SAT Scores of Freshmen. SAT scores of Freshmen. All reported SAT scores are based on the sum of the SAT MSS and the ERWS for entering freshmen. A redesigned SAT was used for Fall 2017 admissions; therefore, scores for Fall 2016 and before cannot be compared to scores for Fall 2017 and later. The average is the arithmetic mean of these SAT scores. Peer data are from IPEDS.

Average GPA of Entering Transfer

Students. Average Cumulative GPA of entering transfer students according to DHE admissions policy.

Student Satisfaction with Educational

Experience. Percent of seniors who responded “good” or “excellent” to the question, “How would you evaluate your entire educational experience at this institution?” on the most recently conducted National Survey of Student Engagement (NSSE).

Student-Faculty Ratio. The ratio of FTE students to FTE instructional faculty. Faculty and students in stand-alone graduate or professional programs such as medicine, law, veterinary, dentistry, social work, business, and public health in which faculty teach virtually only graduate-level students are excluded. Teaching assistants are not counted as faculty. Data and definition are from CDS.

Technology-Enhanced Classrooms.

Classification of the campus’s total classroom capacity in terms of the level of technology-support.

Doctoral Degrees Awarded. Number of doctorates awarded for AY 2017-18, which includes September, February and May award dates. These include both research/scholarship and professional practice doctorates. Peer comparison data are based on research/scholarship doctorates only that were reported to IPEDS.

Postdoctoral Appointees. The number of postdoctoral appointees as reported to the National Science Foundation (NSF).

Total R&D Expenditures. Research and development (R&D) expenditures in all academic fields from all sources (federal, state, local governments, industry, private and institutional) as reported to NSF.

Total R&D Expenditures Ranking. Annual NSF ranking of Total R&D expenditures, for all postsecondary institutions participating in the NSF HERD Survey. UMass Amherst’s rank in the annual NSF ranking of Total R&D expenditures among public institutions of higher education with a Carnegie classification of “Highest Research” and with no medical school. Data source NCES WebCaspar/NSF HERD data tables.

Total Research Expenditures per Tenure

System Faculty. R&D expenditures in all academic fields from all sources (federal, state, local governments, industry, private and institutional) as reported to NSF, divided by total tenure system faculty as reported to IPEDS. Peer data reported by NSF and IPEDS.

Patent Applications. Number of U.S. Patent applications filed per year. Data reported by campuses to UMass President’s Office, Office of OTCV.

License Income. Amount of annual income from license agreements. Data Source: Data reported by campuses to UMass President’s Office, Office of OTCV.

Percent Tenured/Tenure-Track Faculty

(FTE). Percent based on the ratio of Tenured/Tenure-Track Faculty FTE to Total Faculty FTE.

New Tenured/Tenured-Track Faculty

Hired. The number of new tenured/tenure-track Instructional Faculty members hired to start their new positions in the academic year. Data for “New Hires” is based on IPEDS definitions. Prior to 2016, “New Hires” were based on all those on payroll as of November 1 of the reporting year who were hired for full-time employment between July 1 and October 31; 2016 and onwards, IPEDS expanded the hire date to include those that were hired between November 1 of the previous year and October 31 of the reporting year.

DEFINITIONS AND SOURCES

ACADEMIC QUALITY INDICATORS

New Tenured/Tenure-Track Faculty Hired as Percent of All Tenured/Tenure-Track Faculty.

Number of “Newly hired” Tenured/Tenure-track faculty divided Total Tenured/Tenure-track faculty of an IPEDS reporting cycle. Data for “New Hires” is based on IPEDS definitions. Prior to 2016, “New Hires” were based on all those on payroll as of November 1 of the reporting year who were hired for full-time employment between July 1 and October 31; 2016 and onwards, IPEDS expanded the hire date to include those that were hired between November 1 of the previous year and October 31 of the reporting year.

Change in Tenured/Tenure-Track Faculty.

The difference in the number of tenured/tenure-track faculty from one Fall semester to the next. Faculty members who are on paid leave are included. Does not include individuals whose primary responsibility is administrative.

Change in Faculty FTE. The difference in the total FTE, from one Fall semester to the next, for all full-time and part-time instructional faculty. Includes faculty members who are on paid leave. Does not include individuals whose primary responsibility is administrative. Definition of Faculty FTE is per the Common Data Set, and includes all faculty teaching credit courses, including credit courses offered via Continuing Education.

Faculty-of-Color. The proportion of full-time instructional faculty who are U.S. citizens or permanent residents and report their race/ethnicity to be one or more of the following: Hispanic/Latino, American Indian or Alaska Native, Asian, Black or African-American, Native Hawaiian or Other Pacific Islander, or Two or More Races. Race/ethnicity definition is based on IPEDS.

Women Faculty. The proportion of full-time instructional faculty who identify themselves as female.

Faculty Awards. Number of faculty with awards from a list of 24 prominent grant and fellowship programs in the arts, humanities, science, engineering and health fields (e.g., Fulbright American Scholars, Guggenheim Fellows, MacArthur Foundation Fellows, National Endowment for the Humanities Fellows, NSF Career Awards, Sloan Research Fellows). Data reported in *The Top American Research Universities* and were obtained from directories or web based listings.

National Academy Members. Number of faculty with active or emeritus status who have been elected to membership in the National Academy of Sciences, the National Academy of Engineering, or the Institute of Medicine. Data reported in *The Top American Research Universities*.

ACCESS AND AFFORDABILITY INDICATORS

Percent (In-State) Pell Grant Recipients.

Federal Pell Grants are awarded to low-income undergraduates based on their expected family contribution. Data as reported by campuses to the UMass President’s Office of in-state, full-time students with Pell Grants in the Financial Aid Template.

Percent of Need Met for In-State Students

Awarded Need-Based Aid. The average percentage of demonstrated financial need that is met by the institution’s award of need-based financial aid to in-state undergraduate students. Data as reported to the UMass President’s Office in

the Financial Aid Template.

Average Student Debt Load of Graduating Class (UG).

Average debt load is based on the total debt borrowed by an Institution’s graduating class (bachelor’s, first-time only) divided by the number of students of that cohort that carried any amount of debt. It does not include those students with no debt load. It does not include students who have transferred in. The graduating class includes those that graduated between July 1 and June 30 of the reporting year. Data is from CDS.

DEFINITIONS AND SOURCES

ACCESS AND AFFORDABILITY INDICATORS

Percent Graduating Class with Debt (UG).

The total number of students in the graduating class (bachelor's, first-time only) that carried a debt load at the institution divided by the total number of graduating (bachelor's, first-time only) students in that institution. It does not include students who have transferred in. The graduating class includes those that graduated between July 1 and June 30 of the reporting year. Data is from CDS.

Percentage Undergraduates from

Massachusetts. Percentage of total undergraduate students who are "In State" or residents of Massachusetts based on tuition residency. For state-supported (day) students, tuition classification is used, whereas for CPE

students, the actual residency at time of matriculation is used.

Online Course Registrations. Course registrations for the academic year for online credit courses. Academic year includes Summer, Fall, intersession, and Spring. These do not include hybrid courses, but fully online courses only offered via UMassOnline.

Annual Growth in Online Course

Registrations. Percentage rate of growth in course registrations for the fiscal year for online credit courses. Fiscal year includes Summer, Fall, intersession, and Spring. These do not include hybrid courses, but fully online only offered via UMassOnline.

STUDENT SUCCESS AND SATISFACTION INDICATORS

Percent Undergraduates who are Students

of Color. Undergraduates who self-identify as either African American/Black, Hispanic/ Latino, Asian, Hawaiian/Pacific Islander, American Indian/Alaskan Native, and/or Two or more races. Hispanic students who list one or more additional groups will be coded as Hispanic. Cape Verdean students who identify solely as Cape Verdean will be coded as Not Reported. Included only for U.S. Citizens and Permanent Residents who report race and ethnicity divided by total undergraduate U.S. citizens and permanent residents who report race/ethnicity.

Percent Undergraduates who are First

Generation in College. Percent of first-time, full-time undergraduates where neither parent has earned a bachelor's degree. The source of this data field is the Common Application.

Percent first-time, full-time

Undergraduates with English as a Second

Language. Percent of first-time, full-time undergraduates who speak another language at home. The source of this data field will be from the Common Application.

Percent Undergraduates who are

International. Percentage of all undergraduates who are non-resident aliens, studying at the university on an eligible visa types, and enrolled in

credit courses. Does not include permanent residents, refugees, or US citizens.

Number of Students who Participated in a

Study Abroad Program. Number of students who participated in a credit-bearing study abroad program outside of the U.S. over the most recent academic year, either at UMass or elsewhere.

Freshmen One-Year Retention Rate.

Percent of first-time, full-time, degree-seeking freshmen who entered UMass in a given Fall and were still enrolled at the institution in the following Fall. Peer data as reported to IPEDS.

Freshmen Four-Year Graduation Rate.

Percent of first-time, full-time, degree-seeking freshmen who entered UMass in a given Fall term and graduated from the institution by the end of their fourth year. Associates degree and CPE students are excluded.

Freshmen Six-Year Graduation Rate.

Percent of first-time, full-time freshmen who entered UMass in a given Fall term and had graduated from the institution within six years. Peer data are based on median as reported to IPEDS. Associates degree and CPE students are excluded.

DEFINITIONS AND SOURCES

STUDENT SUCCESS AND SATISFACTION INDICATORS

Transfer (Full-Time) One-Year Retention

Rate. Percent of full-time transfer students at any level who entered UMass in a given Fall and were still enrolled at, or graduated from the institution as of the following Fall.

Transfer (Upper-Division) Four-Year

Graduation Rate. Percent of full-time upper division transfers (60+ credits) who entered UMass in a given Fall term and had graduated from the institution within four years.

Student Achievement Measure. SAM tracks student movement across postsecondary institutions to provide a more complete picture of undergraduate

student progress and completion within the higher education system. SAM is an alternative to the federal graduation rate, which is limited to tracking the completion of first-time, full-time students at one institution.

Alumni Participation Rate. The percentage of undergraduate alumni of record who donated money to the college or university. Alumni of record are former full- or part-time students who received an undergraduate degree and for whom the college or university has a current address. The alumni giving rate is calculated by dividing the number of alumni donors during a given academic year by the number of alumni of record for that same year. Graduates who earned only a graduate degree are excluded.

SERVICE TO THE COMMONWEALTH INDICATORS

Degree Completions. The number of degrees (not including certificates) awarded in the previous academic year, by degree level. As reported to IPEDS.

Percent Alumni who Live in

Massachusetts. Percentage of total alumni who currently reside in Massachusetts based on alumni records.

Enrollment in STEM Programs. Unduplicated count of students enrolled in Science, Technology, Engineering, & Math (STEM) programs. STEM programs are those fields of study defined in the National Science & Mathematics Access to Retain Talent (SMART) Grant with the exclusion of foreign languages. Enrollment count includes undergraduate, graduate and certificate students.

Degrees and Certificates Awarded in

STEM Fields. Number of undergraduate and graduate degrees awarded in STEM fields. STEM fields are those defined in the National Science & Mathematics Access to Retain Talent (SMART) Grant with the exclusion of foreign languages. Certificates data also included separately.

Degrees and Certificates Awarded in

Healthcare Fields. Number of undergraduate and graduate degrees awarded in Health Care fields. Healthcare designation as defined by Campus IR, and based on CIP classification. All of CIP 51, and specific 6-digit CIPs unique to each campus. Certificates data also included separately.

MTEL Science & Math Test-Takers. Total number of students who took the Massachusetts Tests for Educator Licensure (MTEL) subject tests in science and math fields.

FINANCIAL HEALTH INDICATORS

Endowment Assets and Annual Growth in

Endowment. The total value of the endowment (includes true and quasi-endowments) at the end of the fiscal year as reported in the UMass Annual BOT report, and the percent change from previous year. Comparative data are from IPEDS, financial statements, and the NACUBO survey.

Endowment per Annualized Student FTE.

Total UMass Amherst endowments per annualized FTE student, where FTE of peer institutions is standardized to UMass formula. Peer data are for the comparative peers from financial statements (current year) and IPEDS (prior years).

DEFINITIONS AND SOURCES

FINANCIAL HEALTH INDICATORS

Private Funds Raised Annually. Private funds raised includes restricted and unrestricted revenues from individuals, foundations, corporations and other organizations. Includes private grant revenues but not private contract revenues. Totals for each year include pledges made in that year as well as the value of in-kind contributions.

Primary Reserve. Unrestricted net assets as a percentage of total operating expenditures (operating expenditures plus interest expense). Peer data are from published financial statements.

Debt Service to Operations. Debt service as a percentage of total operating expenditures (operating expenditures plus interest expense). Peer data are from published financial statements.

Deferred Maintenance per GSF. Deferred Maintenance per Gross Square Footage includes deferred and other maintenance dollars needed to maintain the current function of the campus, calculated by the "Sightlines" Return on Physical Assets methodology (ROPAsm) and shown per square foot of space. Adjusted each year for inflation.

PEER INSTITUTIONS FOR UMASS AMHERST

Indiana University-Bloomington

*Iowa State University

*Rutgers University System

Stony Brook University

*University of California-Santa Barbara

*University of Colorado-Boulder

*University of Connecticut System

University of Delaware

*University of Maryland-College Park

University of Oregon

***Financial Peer**

Please Note: Unless otherwise specified, all data are from the UMass Amherst Office of Institutional Research.

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BOSTON

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HEADLINES

ACADEMIC QUALITY

Improve Student Learning Experience

We continue to attract well-qualified freshmen and transfers to our entering classes in greater numbers. We place emphasis on the high school GPA for admissions decisions and have successfully maintained an average GPA over 3.00 for the last six entering classes, rising to 3.34 in Fall 2018. The mean SAT score of incoming freshmen was 1119.

UMass Boston continues to stand out as a model of excellence for urban universities, jumped 11 spots in the *U.S. News & World Report's* national rankings. UMass Boston's online bachelor's program ranked No. 49 in the nation and No. 3 in New England by *U.S. News & World Report* in an annual list of the Best Online Programs. Our online graduate education programs rose 34 spots to rank 54th nationwide, online graduate education programs for veterans ranked 17th, and online graduate business programs (non-MBA) ranked 89th.

Strengthen Research and Development

UMass Boston continues to advance as an increasingly sophisticated research university. Between FY 2014 and FY 2018, UMass Boston's Total R&D expenditures reported to NSF have remained above \$61 million. In terms of sponsored instruction and outreach per faculty, this figure has increased to over \$40,500 per faculty member. UMass Boston has experienced a 32% annual increase in licensing revenue over the past year, mainly from inventions in physics, chemistry, and engineering departments.

UMass Boston Assistant Professor of Engineering Matthew Bell was the recipient of a \$991,764

National Science Foundation award to support his research in quantum computing as part of a national effort to advance quantum information science research and development. In addition, Distinguished Professor of Biology Kamal Bawa was awarded the prestigious Linnean Medal in Botany.

UMass Boston research maintains a teaching and service focus with a number of grants advancing student learning and civic engagement. For example, 9 faculty members from the College of Liberal Arts received the first round of mini-grants from the Mellon Foundation to develop high impact humanities courses as part of a broader effort to encourage greater student interest in the humanities and further their academic success in this area. The National Science Foundation has named Distinguished Professor of Science Education Arthur Eisenkraft and two other Massachusetts residents to a new advisory panel created to encourage U.S. scientific and technological innovations in education.

Renew Faculty

In AY 2017-18 UMass Boston was successful in recruiting 12 tenured or tenure-track faculty, while sustaining the high proportion of full-time instructional faculty that are persons of color at 28%, and are female at 52%. Tenure-stream faculty growth slowed during the past year, based on enrollment performance. Tenure-stream faculty, which still represents more than 69% of all full-time instructional faculty, is a critical factor in ensuring the continued success of our students.

ACCESS AND AFFORDABILITY

We continue to serve residents of Greater Boston communities and communities throughout the Commonwealth, fulfilling our mission of access to diverse populations. Many (85%) of our undergraduates are from Massachusetts. UMass Boston serves large numbers of minority students, first-generation college students, transfers, and students who are immigrants or children of immigrants who speak languages other than

English at home or with families. Our students are also diverse in age and national origin. In keeping with UMass Boston's strategic goal of global engagement, the proportion of international students has remained at 11% over the past five years, and it is anticipated to increase further over the next five years. The total number of students who participated in a study abroad program increased 32% from the previous year, due to

HEADLINES

ACCESS AND AFFORDABILITY

international students being included in the count for the first time.

The social and economic diversity of our students is illustrated by our Pell grant figures with 49% of our full-time undergraduate students from Massachusetts receive Pell grants, which are federal funds targeted toward students in greatest financial need. The undergraduate student debt load of the recent graduating class was only 56%, down from 74% six years ago.

UMass Boston's College of Advancing and Professional Studies continued to see large numbers of online course registrations, with over 14,100, marking the fifth consecutive fiscal year with more than 14,000 course registrations.

A record number of UMass Boston students earned National Science Foundation graduate research fellowships, two in Chemistry and one in Psychology.

STUDENT SUCCESS AND SATISFACTION

Diversity and Positive Climate

UMass Boston serves a vital function in the region as the only public research university in Boston. The campus is well known for the diversity of its student population, which exceeds the population diversity of the region. With more than 6,200 undergraduates of color, UMass Boston has the most diverse undergraduate student population of any four-year research university in New England schools. In Fall 2018, 60% of our U.S. undergraduate students were students of color. The diversity of our student population has continued to increase, along with increases in admissions quality indicators and a sustained increase in enrollment. UMass Boston had the second highest score on a new national ranking, compiled by the Race and Equity Center at the University of Southern California, that assesses how well public universities serve African American students. The National Institutes of Health awarded biology professors Rachel Skvirsky and Adán

Colón-Carmona an additional five-year \$1.3 million grant to continue their work preparing undergraduate students at UMass Boston for PhD programs and careers in the biomedical research industry through a research-intensive, skill-building mentoring program that seeks to increase diversity in the biomedical research workforce at the PhD level.

Freshmen one-year retention rates have remained comparable to our peers over the past five years, reaching 77% for those students who entered in Fall 2017. The 79% retention rate for entering transfer students were comparable to first-year students during the same period. The six-year graduation rate for the Fall 2012 cohort was 48%. The four-year graduation rate for the Fall 2014 cohort was 26%, a substantial increase over the past six years from the 16% rate for the Fall 2008 cohort.

SERVICE TO THE COMMONWEALTH

Nearly three-quarters of our alumni reside in Massachusetts, where they contribute to the economy and civic life of the Commonwealth.

UMass Boston devotes a high proportion of research and public service activities to the cultural, social, and economic development of the Commonwealth and global community. The National Endowment for the Humanities announced that it was awarding grants for 19 projects in Massachusetts. UMass Boston's Venture Development Center has supported 102 startups now employing 1,128 people, helped them raise more than \$1 billion in investments, and

engaged nearly 2,000 students. Among the many examples of UMass Boston's outreach and partnerships projects to improve the lives of Bostonians.

In an effort to expand female students' exposure to the investment management industry, UMass Boston partnered with Boston-based investment firm Loomis, Sayles & Company to recruit student interns through the Undergraduate Women's Investment Network (UWIN).

Enrollments continue to grow steadily in Science, Technology, Engineering, and Mathematics

HEADLINES

SERVICE TO THE COMMONWEALTH

(STEM) as overall enrollments also rise, with over 4,100 students in these disciplines in Fall 2018, with 30% of undergraduate students pursuing a

STEM discipline. The number of STEM degrees and certificates awarded has increased 73% from AY 2012-13 to AY 2017-18.

FINANCIAL HEALTH

Endowment assets totaled \$84.9 million in FY 2018. Endowment per annualized student FTE grew from \$5,242 in FY 2013 to \$6,490 in FY 2018, an increase of 24%, in spite of the substantial increase in enrollment over the time period. While total private funds raised has declined over the past five years, the campus surpassed its ambitious goal of raising \$100 million through the Just Imagine campaign that commenced in 2011.

FY19 has been marked by further alignment of the operating budget so that revenues will be able to fund the university's operating expenses and necessary investments to ensure long-term financial stability. With a commitment to reach the university system's operating margin requirement of 2% over the next five years, the campus continues to take a close look at its revenues and expenses. The campus is currently projecting to end the year with a balanced budget. UMB is required to have a balanced budget for FY20 and is presently evaluating future scalable revenue generating opportunities and cost-saving options for a long-term comprehensive solution in order to do so and to ensure financial stability.

FY19 construction saw the completion of the following major projects: the \$259.5M Utility Corridor and Roadway Relocation (UCRR) project and a \$69.75M 1400 space parking garage. A \$137.4M 1077 bed residence hall, built as a public-private partnership, opened in September 2018. Current construction includes the \$155.5M Substructure Demolition and Quadrangle Development (SDQD) project, with the Commonwealth paying \$78M and the Campus funding the remaining \$77.5M over a four year period. The SDQD project enables the university to vacate the Science Center into existing space on campus, demolish the Science Center, pool and much of the substructure and build a new quadrangle and surface parking.

The university, in partnership with the UMass Building Authority and the UMass President's Office, is presently in negotiations for the development of its Bayside property, with the current proposal to generate a minimum of \$192M in revenue for qualified capital projects.

AT-A-GLANCE

ACADEMIC QUALITY

• Average HS GPA of Freshmen	3.34	• Total R&D Expenditures per Tenure System Faculty	\$123,688
• Average SAT Scores of Freshmen		• Sponsored Instruction & Outreach/Faculty	\$40,540
<i>Arithmetic Mean</i>	1119	• Patent Applications	3
<i>25th – 75th Percentile</i>	1030-1210	• License Income	\$4,633
• Average GPA of Entering Transfer Students	3.00	• Percent Tenured/Tenure-Track Faculty FTE	69%
• Student Satisfaction with Educational Experience	75%	• New Tenured/Tenure-Track Faculty Hired	12
• Student-Faculty Ratio	16:1	<i>As Percent of Total T/TT Faculty</i>	2%
• Technology-Enhanced Classrooms	253	• Change in Tenured/Tenure-Track Faculty	2%
• Number of Students Enrolled in For-Credit Internships	1010	• Change in Faculty FTE	2%
• No. of Doctoral Degrees Awarded	81	• Full-Time Instructional Faculty	
• No. of Postdoctoral Appointees	15	<i>Percent Faculty-of-Color</i>	28%
• Total R&D Expenditures	\$61M	<i>Percent Women Faculty</i>	52%
• Total R&D Expenditures Ranking	172	• Faculty Awards	4
• Total R&D Expenditures Ranking among Carnegie Peers, US Publics, Non-Medical	26	• National Academy Members	1

ACCESS AND AFFORDABILITY

• Percent In-State Pell Grant Recipients	49%	• Percent Undergraduates from Students from MA	85%
• Percent of Need Met for In-State Students Awarded Need-Based Aid	85%	• Online Course Registrations	14,191
• Average Debt of Students+A1 (UG Graduating Class)	\$25,449	• Annual Growth in Online Course Registrations	-9%
• Percent Graduating Class with Debt (UG)	56%		

AT-A-GLANCE

STUDENT SUCCESS AND SATISFACTION

• Percent Undergraduates who are Students of Color	60%	• Freshmen Four-Year Graduation Rate	26%
• Percent Undergraduates who are First Generation in College	56%	• Freshmen Six-Year Graduation Rate	48%
• Percent Undergraduates with English as a Second Language	49%	• Transfer (Full-time) One-Year Retention Rate	79%
• Percent Undergraduates who are International	11%	• Transfer (Upper Division) Four-Year Graduation Rate	67%
• Total Students who Participated in a Study Abroad Program	193	• Alumni Participation Rate	4%
• Freshmen One-Year Retention Rate	77%		

SERVICE TO THE COMMONWEALTH

• Degree Completions	3,812	• Degrees Awarded in STEM Fields	618 (17%)
<i>Bachelor's</i>	2543	<i>Undergraduate</i>	482 (18%)
<i>Master's</i>	967	<i>Graduate</i>	136 (13%)
<i>Doctorates</i>	81	• Degrees Awarded in Healthcare Fields	618 (17%)
• Percent Alumni who Remain in MA	72%	<i>Undergraduate</i>	476 (18%)
• Enrollment in STEM Programs	4,161 (26%)	<i>Graduate</i>	142 (14%)
<i>Undergraduate</i>	3,769 (30%)	• MTEL Science and Math Test-Takers	212
<i>Graduate</i>	392 (11%)		

FINANCIAL HEALTH

• Total Endowment	\$84.9M	• Primary Reserve	9%
• Annual Growth in Endowment	5.2%	• Debt Ratio	6%
• Endowment per Annualized Student FTE	\$6,490	• Deferred Maintenance per GSF	\$250
• Private Funds Raised Annually	\$8.3M		

ACADEMIC QUALITY

AVERAGE HIGH-SCHOOL GPA OF FIRST-TIME FRESHMEN

3.34

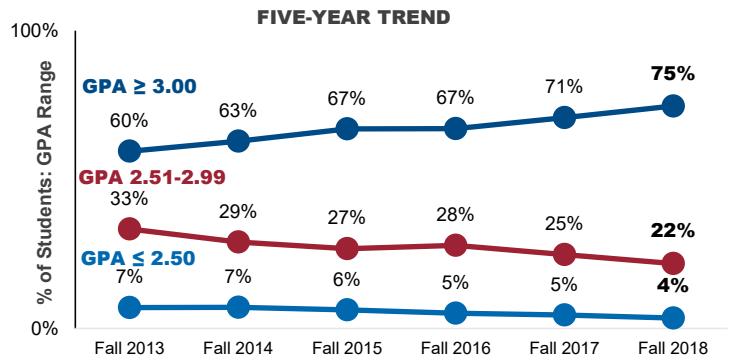
Average HS GPA in Fall 2018

▲ **0.06**

One-year nominal change (vs. Fall 2017)

▲ **0.18**

Five-year nominal change (vs. Fall 2013)



SAT SCORES OF FRESHMEN

1210

SAT Scores of Freshmen 75th Percentile in Fall 2018

▲ **20**

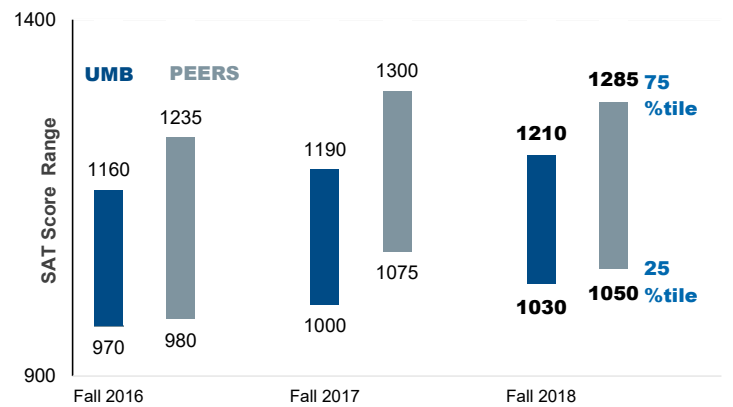
One-year nominal change (vs. Fall 2017)

1030

SAT Scores of Freshmen 25th Percentile in Fall 2018

▲ **30**

One-year nominal change (vs. Fall 2017)

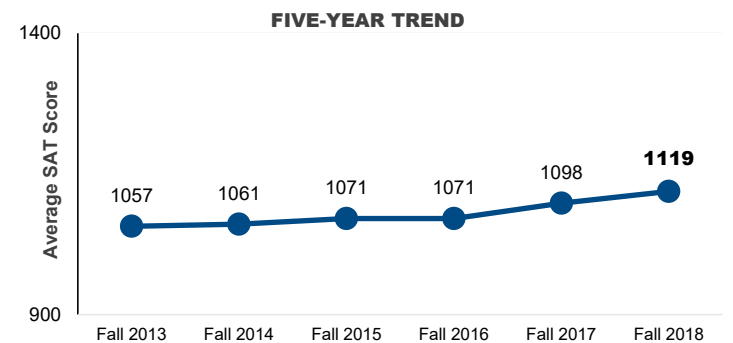


1119

Average SAT Scores of Freshmen in Fall 2018

▲ **21**

One-year nominal change (vs. Fall 2017)



ACADEMIC QUALITY

AVERAGE GPA OF ENTERING TRANSFER STUDENTS

3.00

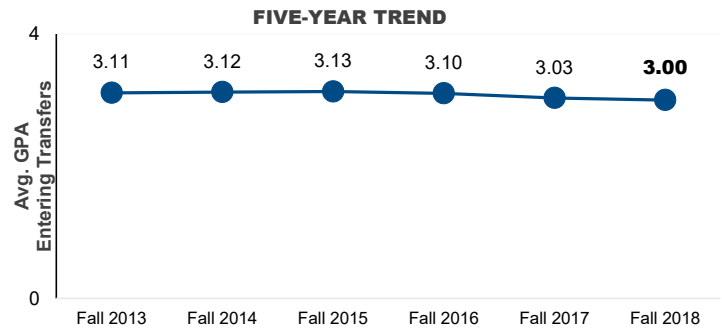
Average transfer GPA in Fall 2018

▼ **0.03**

One-year nominal change (vs. Fall 2017)

▼ **0.11**

Five-year nominal change (vs. Fall 2013)



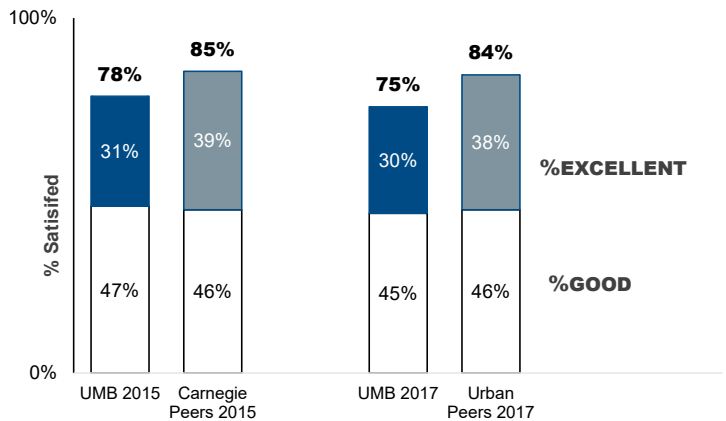
STUDENT SATISFACTION WITH EDUCATIONAL EXPERIENCE

75%

Student Satisfaction as Good or Excellent in UMB 2017

▼ **3**

Two-year % point change (vs. UMB 2015)



STUDENT-FACULTY RATIO

16:1

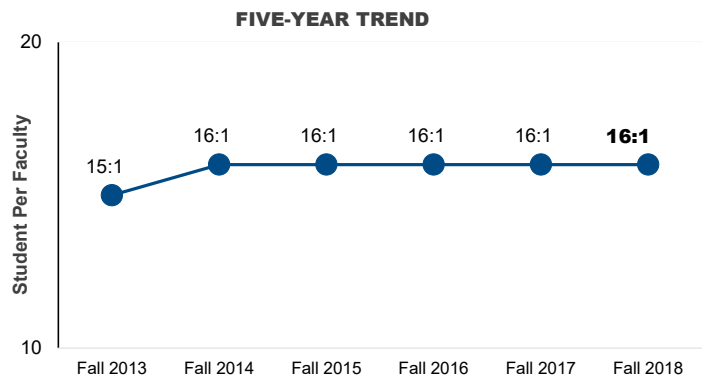
Student-Faculty Ratio in Fall 2018

• **0**

One-year nominal change (vs. Fall 2017)

▲ **1**

Five-year nominal change (vs. Fall 2013)



ACADEMIC QUALITY

TECHNOLOGY-ENHANCED CLASSROOMS

253

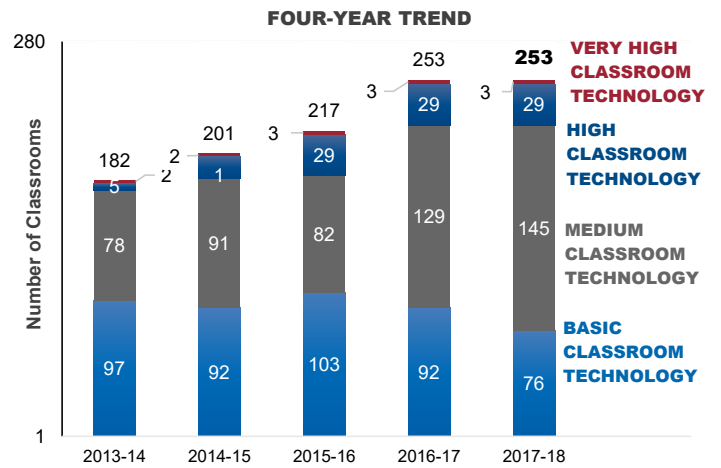
Total Technology Enhanced Classrooms in 2017-18

0%

One-year % change (vs. 2016-17)

▲ 39%

Four-year % change (vs. 2013-14)



NUMBER OF STUDENTS ENROLLED IN FOR-CREDIT INTERNSHIPS/CO-OPS

1,010

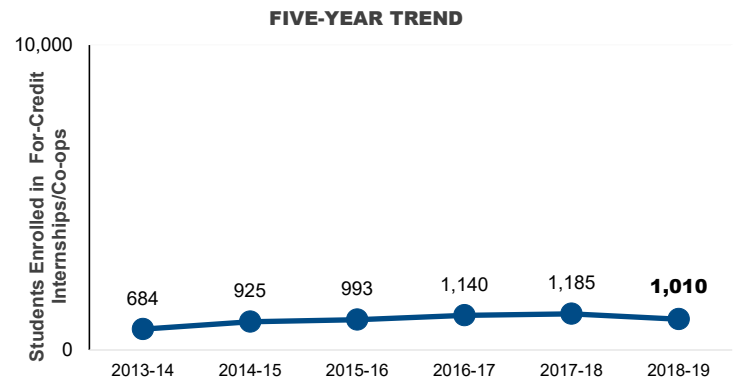
Students Enrolled in For-Credit Internships/Co-ops in 2018-19

▼ 15%

One-year % change (vs. 2017-18)

▲ 48%

Five-year % change (vs. 2013-14)



DOCTORAL DEGREES AWARDED

81

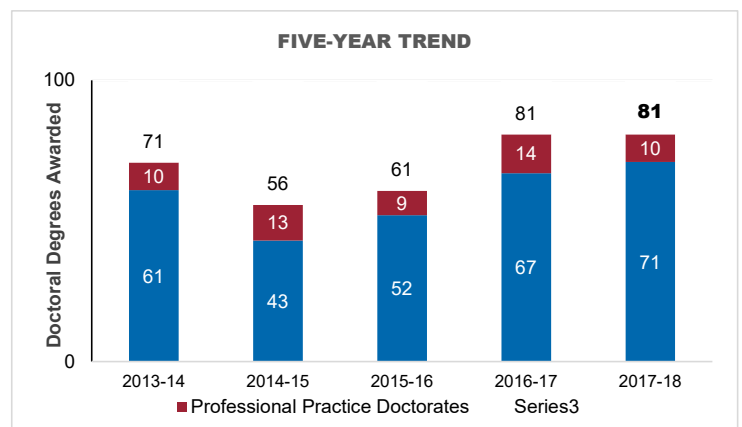
Doctoral Degrees Awarded in 2017-18

0

One-year nominal change (vs. 2016-17)

▲ 44

Five-year nominal change (vs. 2012-13)



ACADEMIC QUALITY

DOCTORAL DEGREES AWARDED

71

Research Doctoral Degrees Awarded in 2017-18

▲ **4**

One-year nominal change (vs. 2016-17)

▲ **40**

Five-year nominal change (vs. 2012-13)

143

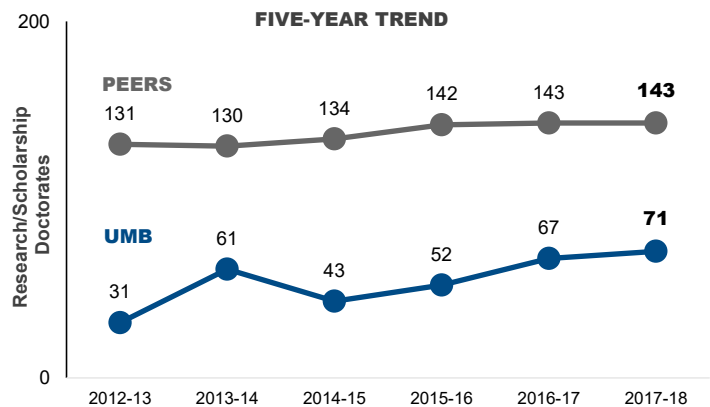
Peer Average Research/Scholarship Doctoral Degrees Awarded in 2017-18

● **0**

One-year nominal change (vs. 2016-17)

▲ **12**

Five-year nominal change (vs. 2012-13)



POSTDOCTORAL APPOINTEES

15

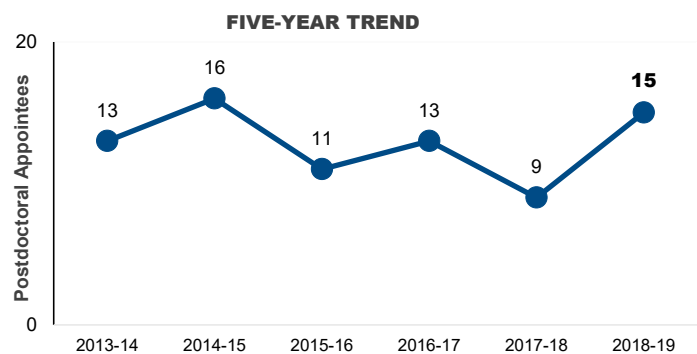
Postdoctoral Appointees in 2018-19

▲ **6**

One-year nominal change (vs. 2017-18)

▲ **2**

Five-year nominal change (vs. 2013-14)



TOTAL R&D EXPENDITURES

\$61.5

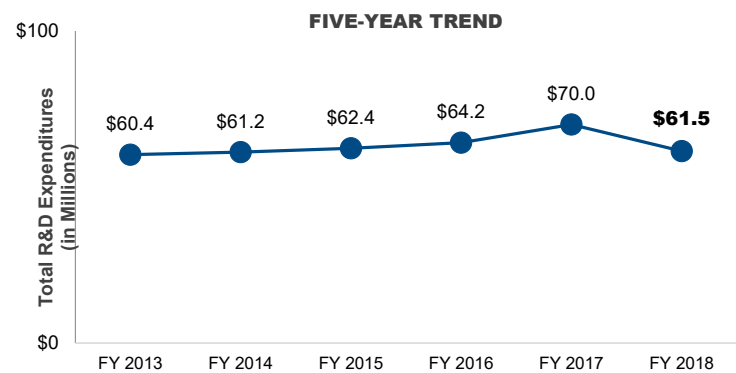
Million in FY 2018

▼ **12%**

One-year % change (vs. FY 2017)

▲ **2%**

Five-year % change (vs. FY 2013)



ACADEMIC QUALITY

TOTAL R&D EXPENDITURES RANKINGS

172

Total R&D Expenditures
Overall Rankings
in FY 2017

▲ **3**

One-year
nominal change
(vs. FY 2016)

▲ **13**

Five-year
nominal change
(vs. FY 2012)

26

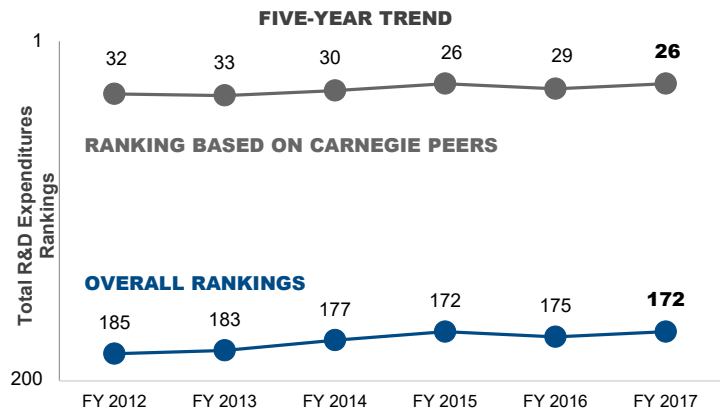
Rankings based on
Carnegie Peers
in FY 2017

▲ **3**

One-year
nominal change
(vs. FY 2016)

▲ **6**

Five-year
nominal change
(vs. FY 2012)



Overall Ranking Source: National Science Foundation Ranking by Total R&D Expenditures.

Ranking based on Carnegie Peers is further standardized by US Publics and Non-Medical Schools.

TOTAL R&D EXPENDITURES PER TENURED SYSTEM FACULTY

\$124k

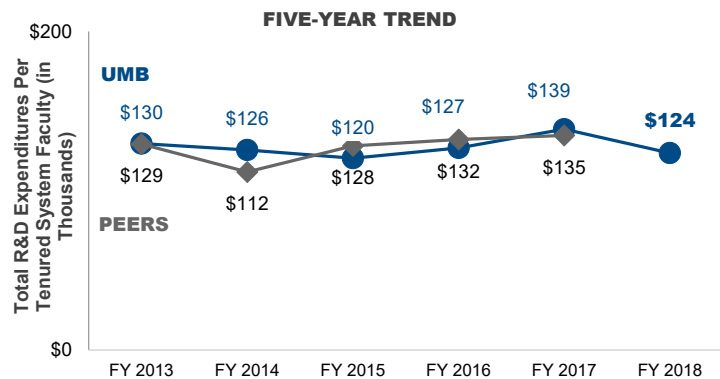
Total R&D Expenditure
Per Tenured
System Faculty
in FY 2018

▼ **11%**

One-year
% change
(vs. FY 2017)

▼ **5%**

Five-year
% change
(vs. FY 2013)



* Peer data for FY 2018 is currently not available.

SPONSORED INSTRUCTION & OUTREACH PER FACULTY

\$41k

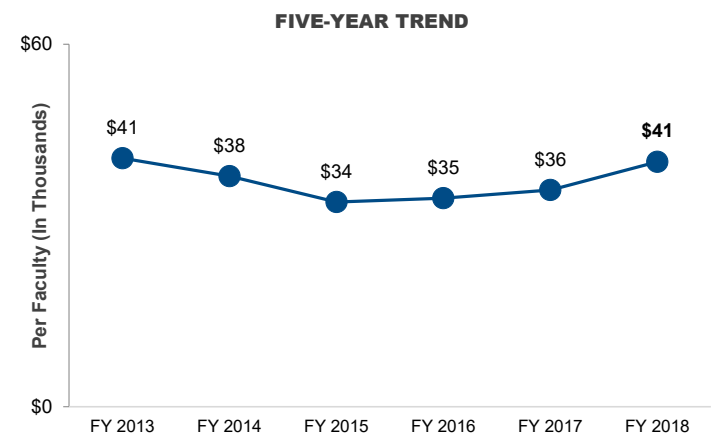
Sponsored
Instruction &
Outreach per Faculty
in FY 2018

▲ **13%**

One-year
% change
(vs. FY 2017)

● **0%**

Five-year
% change
(vs. FY 2013)



ACADEMIC QUALITY

NUMBER OF PATENT APPLICATIONS

3

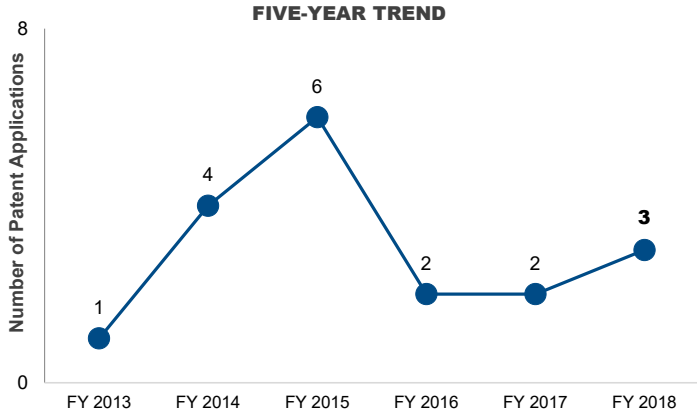
Patent Applications in FY 2018

▲ 1

One-year nominal change (vs. FY 2017)

▲ 2

Five-year nominal change (vs. FY 2013)



LICENSE INCOME

\$4.6k

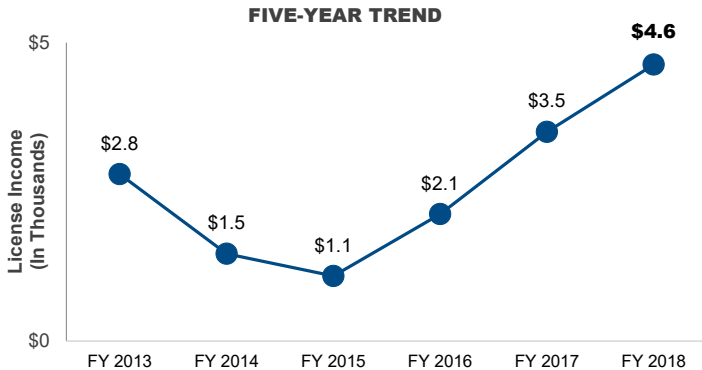
License Income in FY 2018

▲ 32%

One-year % change (vs. FY 2017)

▲ 66%

Five-year % change (vs. FY 2013)



PERCENT TENURED/TENURE-TRACK FACULTY FTE

69%

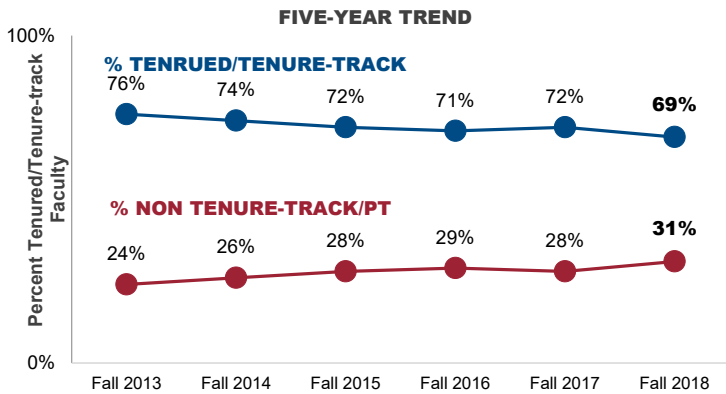
Percent Tenured/Tenure-track Faculty in Fall 2018

▼ 3

One-year % point change (vs. Fall 2017)

▼ 7

Five-year % point change (vs. Fall 2013)



ACADEMIC QUALITY

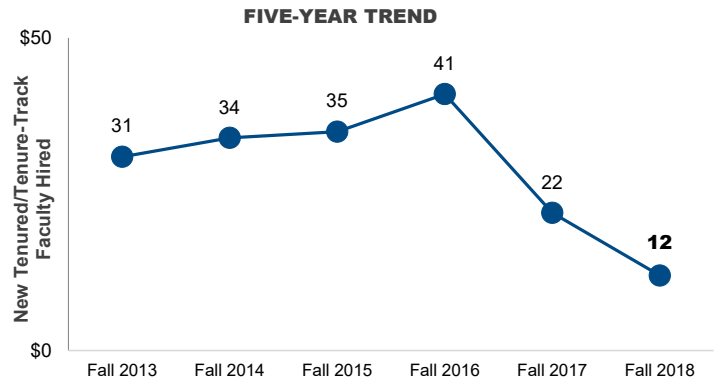
NEW TENURED/TENURE-TRACK FACULTY HIRED

12

New Tenured/
Tenure-Track
Faculty Hired
in Fall 2018

▼ **10**

One-year
nominal change
(vs. Fall 2017)



Data for "New Hires" is based on IPEDS definitions from 2016

NEW TENURED/TENURE-TRACK FACULTY HIRED AS PERCENT OF ALL TENURE-TRACK FACULTY

2%

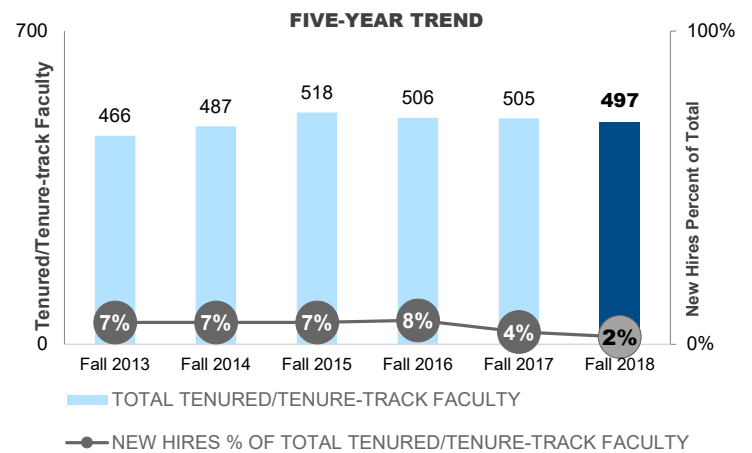
Percent New Tenured/
Tenure-Track Faculty
Hired
in Fall 2018

▼ **2**

One-year
% point change
(vs. Fall 2017)

▼ **5**

Five-year
%point change
(vs. Fall 2013)



Data for "New Hires" is based on IPEDS definitions from 2016

TENURED/TENURE-TRACK FACULTY

497

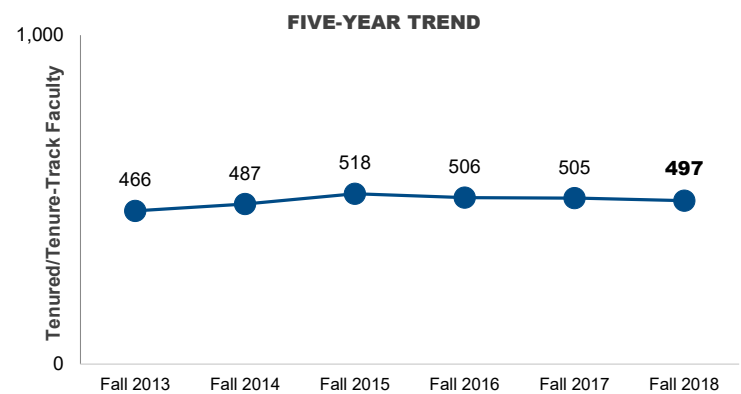
Total Tenured/
Tenure-track Faculty
in Fall 2018

▼ **2%**

One-year
% change
(vs. Fall 2017)

▲ **7%**

Five-year
% change
(vs. Fall 2013)



ACADEMIC QUALITY

FACULTY FTE

866

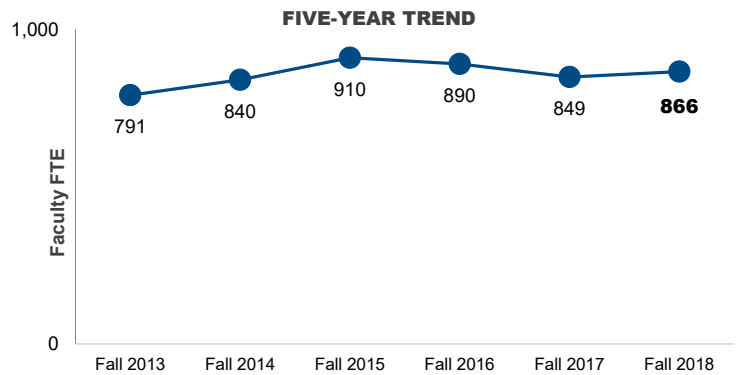
Faculty FTE
in Fall 2018

▲ **2%**

One-year
% change
(vs. Fall 2017)

▲ **9%**

Five-year
% change
(vs. Fall 2013)



FACULTY-OF-COLOR

198

Faculty Of Color
in Fall 2018

▲ **32**

One-year
nominal change
(vs. Fall 2017)

▲ **77**

Five-year
nominal change
(vs. Fall 2013)

28%

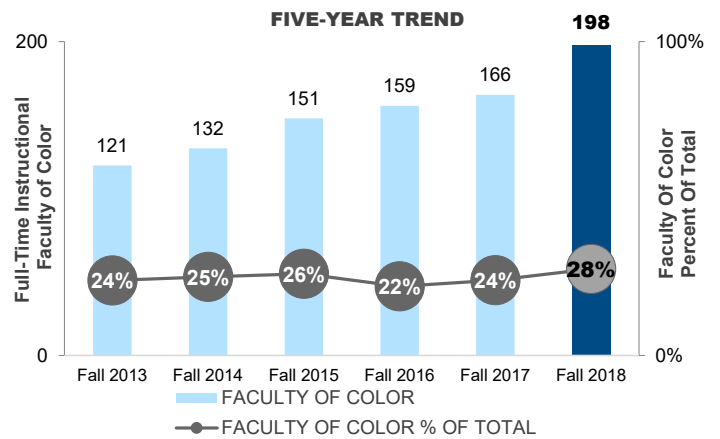
Percent of
Faculty Of Color
in Fall 2018

▲ **4**

One-year
% point
(vs. Fall 2017)

▲ **4**

Five-year
% point
(vs. Fall 2013)



Faculty-of-Color based on US Citizens/Permanent Residents reporting Race/Ethnicity according to new IPEDS definitions.

WOMEN FACULTY

371

Women Faculty
in Fall 2018

▲ **18**

One-year
nominal change
(vs. Fall 2017)

▲ **77**

Five-year
nominal change
(vs. Fall 2013)

52%

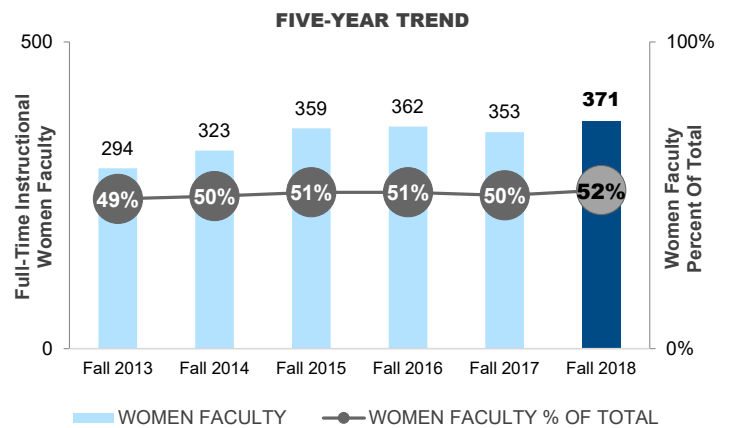
Percent of
Women Faculty
in Fall 2018

▲ **2**

One-year
nominal change
(vs. Fall 2017)

▲ **3**

Five-year
nominal change
(vs. Fall 2013)



ACADEMIC QUALITY

FACULTY AWARDS

4

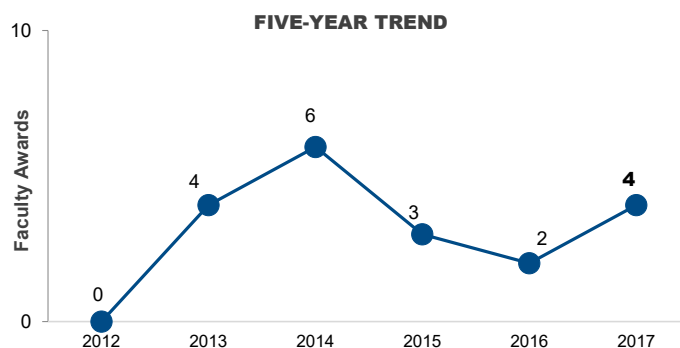
Faculty Awards in 2017

▲ 2

One-year nominal change (vs. 2016)

▲ 4

Five-year nominal change (vs. 2012)



Source : The Top American Research Universities

NATIONAL ACADEMY MEMBERS

1

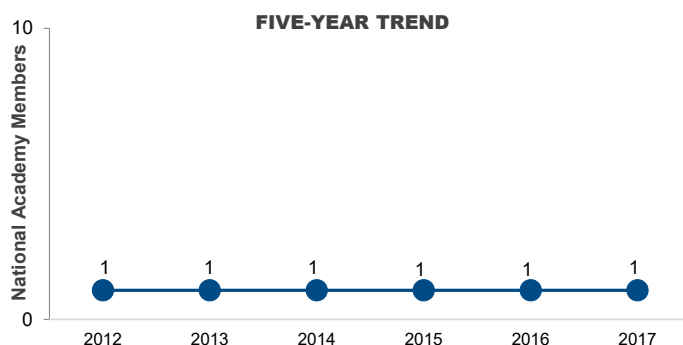
National Academy Members in 2017

● 0

One-year nominal change (vs. 2016)

● 0

Five-year nominal change (vs. 2012)



Source : The Top American Research Universities

ACCESS AND AFFORDABILITY

PERCENT IN-STATE PELL GRANT RECIPIENTS

49%

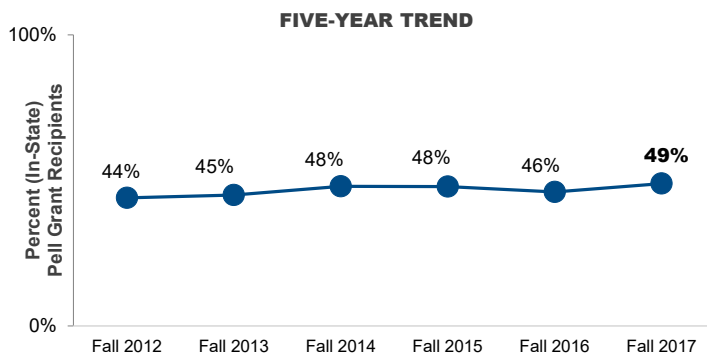
Percent (In-State) Pell Grant Recipients in Fall 2017

▲ 3

One-year % point change (vs. Fall 2016)

▲ 5

Five-year % point change (vs. Fall 2012)



ACCESS AND AFFORDABILITY

PERCENT NEED MET FOR IN-STATE STUDENTS AWARDED NEED-BASED AID

85%

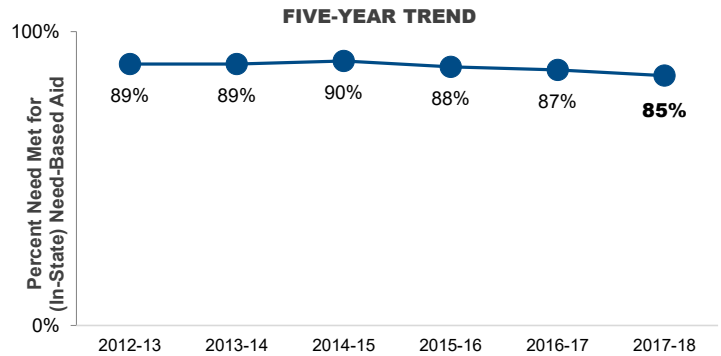
Percent Need Met for (In-State) Need-Based Aid in 2017-18

▼ **2**

One-year % point change (vs. 2016-17)

▼ **4**

Five-year % point change (vs. 2012-13)



UNDERGRADUATE STUDENT DEBT LOAD OF GRADUATING CLASS

\$25.4k

Average Debt Load in 2018

▼ **6%**

One-year % change (vs. 2017)

▼ **2%**

Five-year % change (vs. 2013)

56%

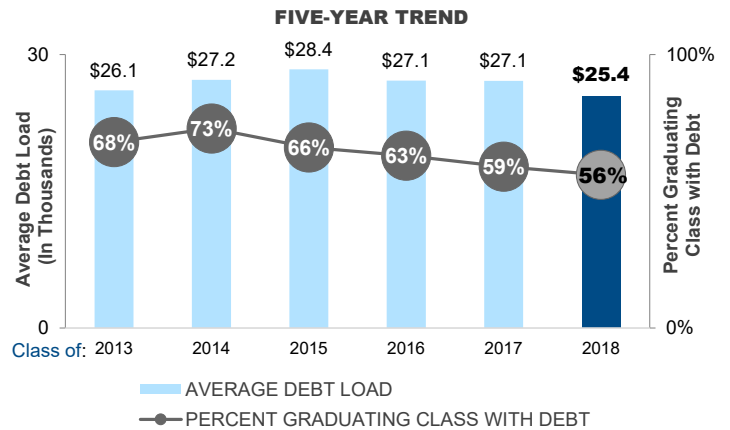
Percent Graduating Class with Debt in 2018

▼ **3**

One-year % point change (vs. 2017)

▼ **12**

Five-year % point change (vs. 2013)



PERCENT UNDERGRADUATES FROM MASSACHUSETTS

10,855

Undergraduates from Massachusetts in Fall 2018

▲ **1%**

One-year % change (vs. Fall 2017)

▲ **2%**

Five-year % change (vs. Fall 2013)

85%

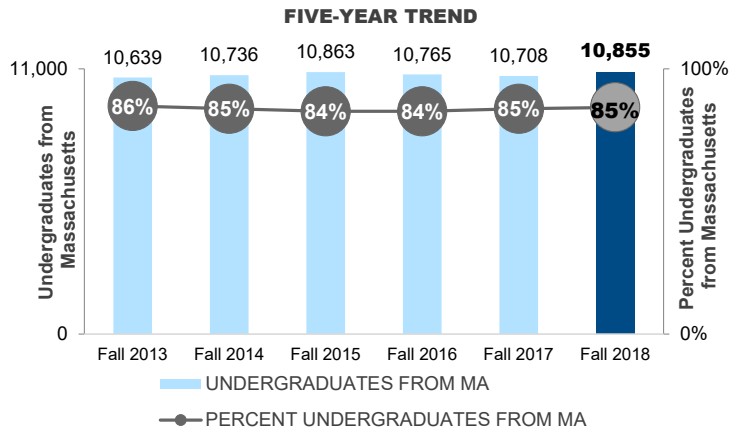
% Undergraduates from Massachusetts in Fall 2018

● **0**

One-year % point change (vs. Fall 2017)

▼ **1**

Five-year % point change (vs. Fall 2013)



ACCESS AND AFFORDABILITY

ONLINE COURSE REGISTRATIONS

14,191

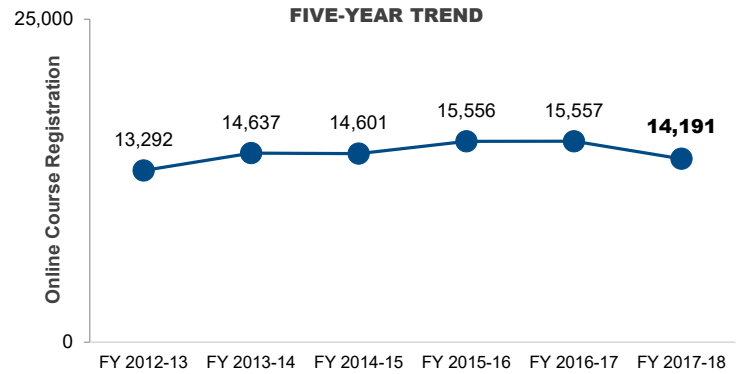
Online Course Registrations in FY 2017-18

▼ 9%

One-year % change (vs. FY 2016-17)

▲ 7%

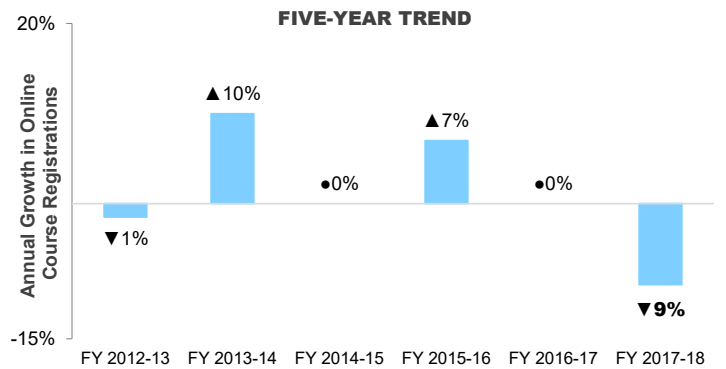
Five-year % change (vs. FY 2012-13)



ANNUAL GROWTH IN ONLINE COURSE REGISTRATIONS

-9%

Annual Growth Online Course Registrations in FY 2017-18



STUDENT SUCCESS AND SATISFACTION

UNDERGRADUATE STUDENTS OF COLOR

6,282

Undergraduates Students of Color in Fall 2018

▲ 4%

One-year % change (vs. Fall 2017)

▲ 24%

Five-year % change (vs. Fall 2013)

60%

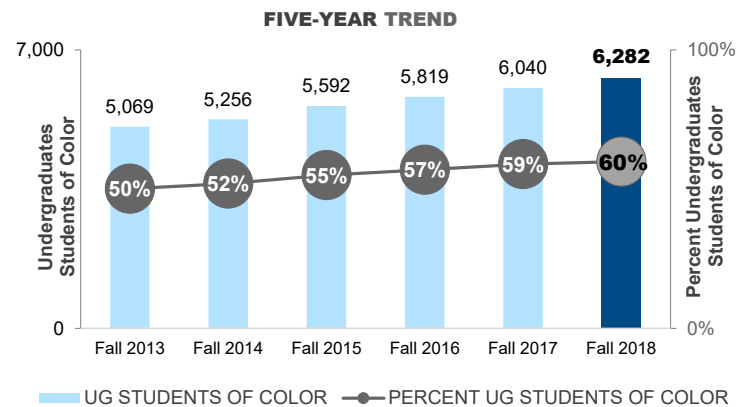
% Undergraduates Students of Color in Fall 2018

▲ 1

One-year % point change (vs. Fall 2017)

▲ 10

Five-year % point change (vs. Fall 2013)



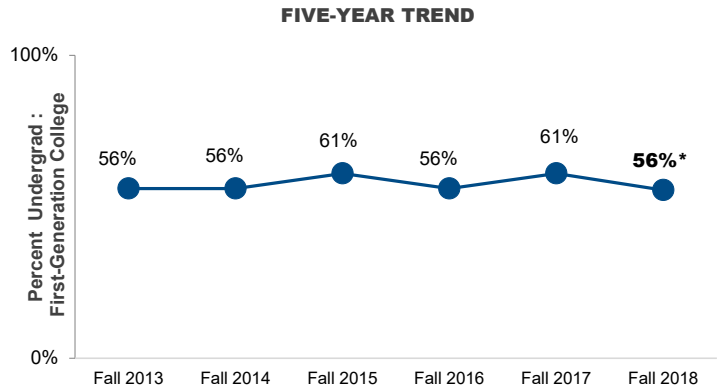
STUDENT SUCCESS AND SATISFACTION

PERCENT UNDERGRADUATES WHO ARE FIRST-GENERATION IN COLLEGE

56%

Percent Undergraduates who are First-Generation College in Fall 2018

*The data source from Fall 2018 updated to Common Application responses.

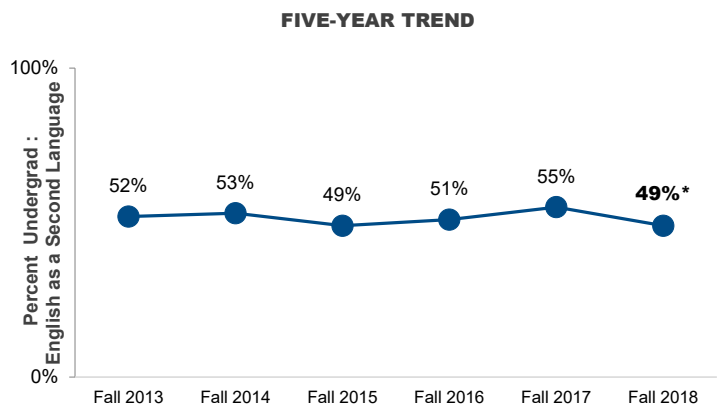


PERCENT FIRST-TIME, FULL-TIME UNDERGRADUATES WITH ENGLISH AS A SECOND LANGUAGE

49%

Percent Undergraduates Speak English as a Second Language in Fall 2018

*The data source from Fall 2018 updated to Common Application responses.



PERCENT UNDERGRADUATES WHO ARE INTERNATIONAL

1,384

International UG Enrollment in Fall 2018

▼ **8%**

One-year % change (vs. Fall 2017)

▲ **17%**

Five-year % change (vs. Fall 2013)

11%

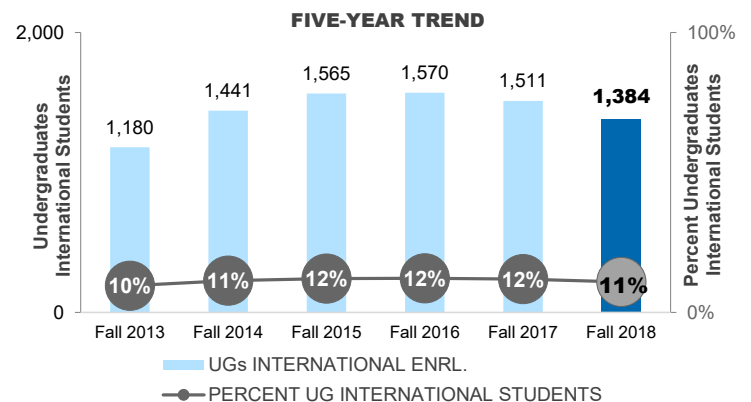
% International UG Enrollment in Fall 2018

▼ **1**

One-year % point change (vs. Fall 2017)

▲ **1**

Five-year % point change (vs. Fall 2013)



STUDENT SUCCESS AND SATISFACTION

TOTAL STUDENTS WHO PARTICIPATED IN A STUDY ABROAD PROGRAM

193

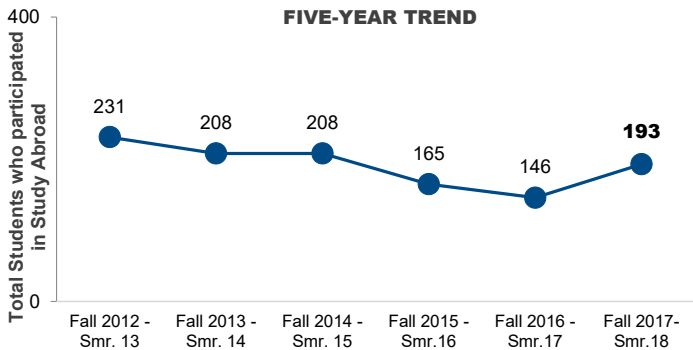
Students who participated in Study Abroad in Fall 2017-Smr.18

▲ 47

One-year nominal change vs. Fall 2016 -Smr.17

▼ 38

Five-year nominal change vs Fall 2012 -Smr. 13



FRESHMEN ONE-YEAR RETENTION RATE

77%

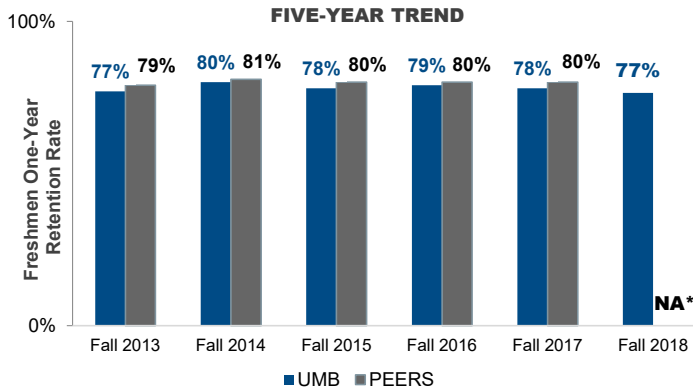
Freshmen One-Year Retention Rate in Fall 2018

▼ 1

One-year % point change (vs. Fall 2017)

. 0

Five-year point (vs. Fall 2013)



* Peer data for Fall 2018 not available for reporting purposes.

FRESHMEN FOUR-YEAR GRADUATION RATES

26%

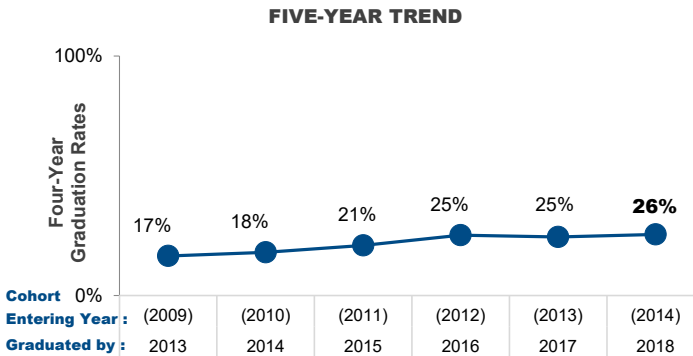
Freshmen Four-Year Graduation Rates in 2018

▲ 1

One-year % point change (vs. 2017)

▲ 9

Five-year % point change (vs. 2013)



STUDENT SUCCESS AND SATISFACTION

FRESHMEN SIX-YEAR GRADUATION RATE

48%

UMB Freshmen Six-Year Graduation Rates in Fall 2018

0

One-year % point change (vs. Fall 2017)

▲ 4

Five-year % point change (vs. Fall 2013)

53%

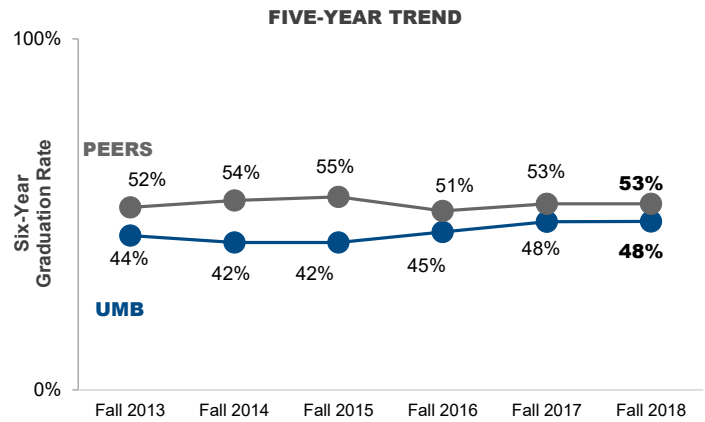
Peers Freshmen Six-Year Graduation Rates in Fall 2018

0

One-year % point change (vs. Fall 2017)

▲ 1

Five-year % point change (vs. Fall 2013)



TRANSFER (FULL-TIME) ONE-YEAR RETENTION RATE

79%

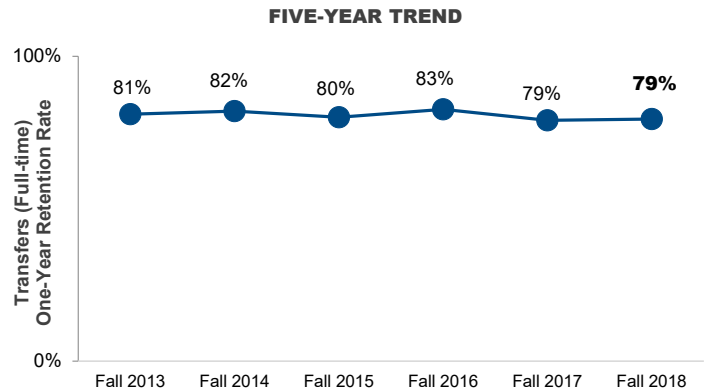
Transfers (Full-time) One-Year Retention Rate in Fall 2018

0

One-year % point change (vs. Fall 2017)

▼ 2

Five-year % point change (vs. Fall 2013)



TRANSFER (UPPER DIVISION) FOUR-YEAR GRADUATION RATE

67%

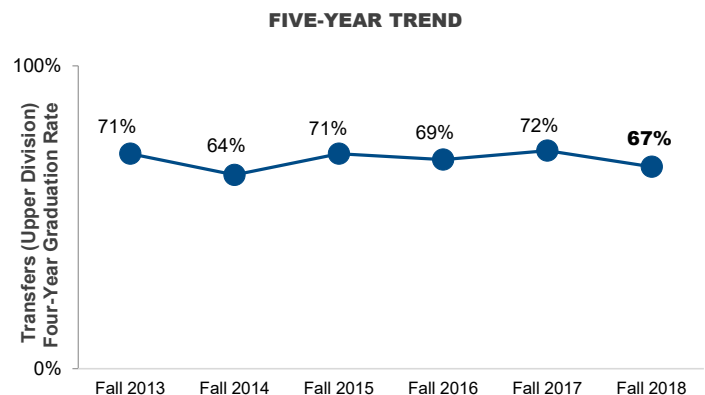
Transfers (Upper Division) Four-Year Graduation Rates in Fall 2018

▼ 5

One-year % point change (vs. Fall 2017)

▼ 4

Five-year % point change (vs. Fall 2013)



STUDENT SUCCESS AND SATISFACTION

STUDENT ACHIEVEMENT MEASURE

Cohort starting in : 2012-13

32%

Bachelor's Degree
Within 4 Yrs. from
any institution

25%

Bachelor's Degree
Within 4 Yrs. from
UMass Boston

54%

Bachelor's Degree
Within 5 Yrs. From
any institution

42%

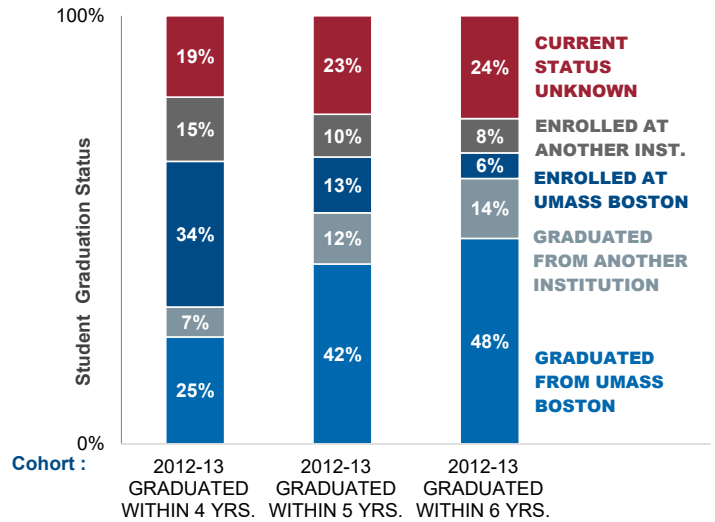
Bachelor's Degree
Within 5 Yrs. From
UMass Boston

62%

Bachelor's Degree
Within 6 Yrs. From
any institution

48%

Bachelor's Degree
Within 6 Yrs. From
UMass Boston



Source : Student Achievement Measure (SAM)

ALUMNI PARTICIPATION RATE

4%

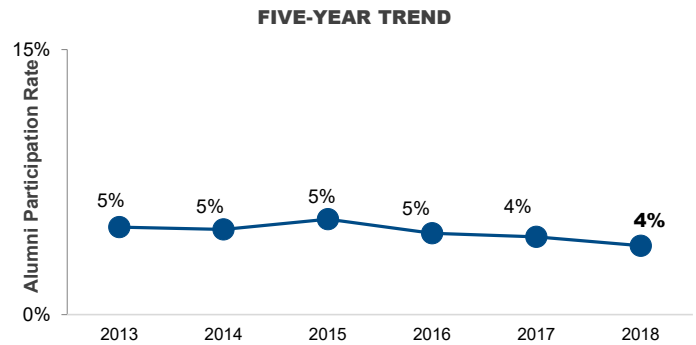
Alumni Participation
Rate
in 2018

0

One-year
% point change
(vs. 2017)

▼ 1

Five-year
% point change
(vs. 2013)



SERVICE TO THE COMMONWEALTH

DEGREE COMPLETIONS

3,812

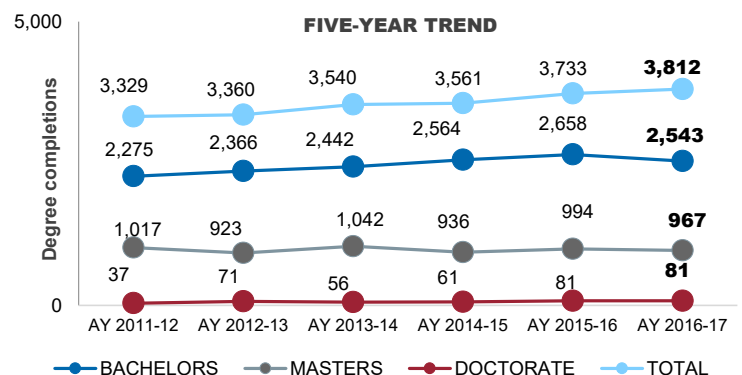
Total degree
completions
AY 2016-17

▲ 2%

One-year
% change
in total degree
completions
(vs. AY 2015-16)

▲ 15%

Five-year
% change
in total degree
completions
(vs. AY 2011-12)



SERVICE TO THE COMMONWEALTH

ENROLLMENT IN STEM PROGRAMS

3,769

UG enrollment in STEM fields in Fall 2018

▲ **4%**

One-year % change (vs. Fall 2017)

▲ **34%**

Five-year % change (vs. Fall 2013)

30%

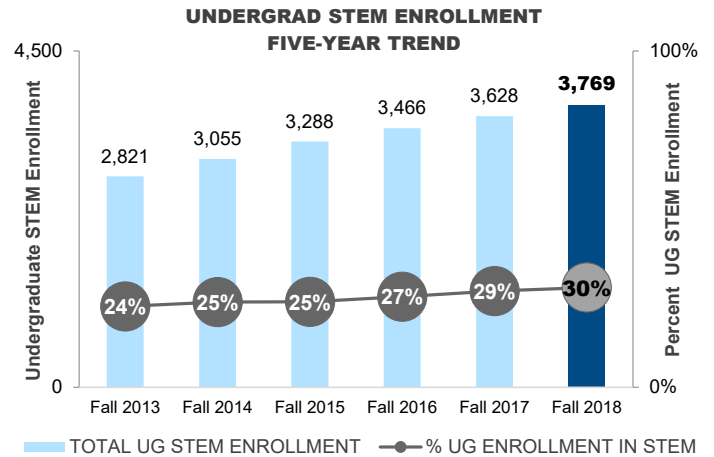
Percent of total UG enrollment in STEM fields in Fall 2018

▲ **1**

One-year % point change (vs. Fall 2017)

▲ **6**

Five-year % point change (vs. Fall 2013)



392

Grad enrollment in STEM fields in Fall 2018

▼ **3%**

One-year % change (vs. Fall 2017)

▲ **28%**

Five-year % change (vs. Fall 2013)

11%

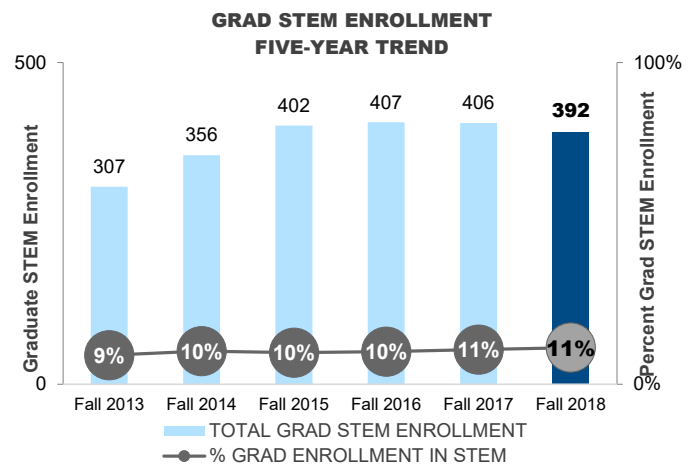
Percent of total Grad enrollment in STEM fields in Fall 2018

▲ **1**

One-year % point change (vs. Fall 2017)

▲ **2**

Five-year % point change (vs. Fall 2013)



* Data for Years Prior to Fall 2018 been updated to include Marine Science and Technology Major .

4,161

Total enrollment in STEM fields in Fall 2018

▲ **3%**

One-year % change (vs. Fall 2017)

▲ **33%**

Five-year % change (vs. Fall 2013)

26%

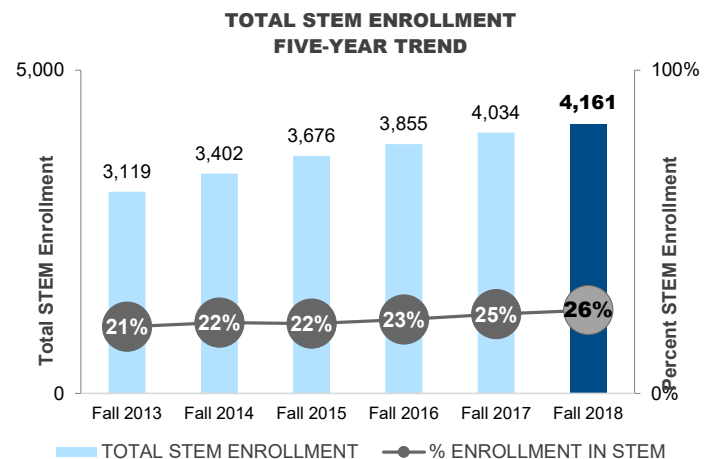
Percent of total enrollment in STEM fields in Fall 2018

▲ **1**

One-year % point change (vs. Fall 2017)

▲ **5**

Five-year % point change (vs. Fall 2013)



SERVICE TO THE COMMONWEALTH

DEGREES AWARDED IN STEM FIELDS

482

UG degrees awarded in STEM fields in 2017-18

▲ **9%**

One-year % change (vs. 2016-17)

▲ **59%**

Five-year % change (vs. 2012-13)

18%

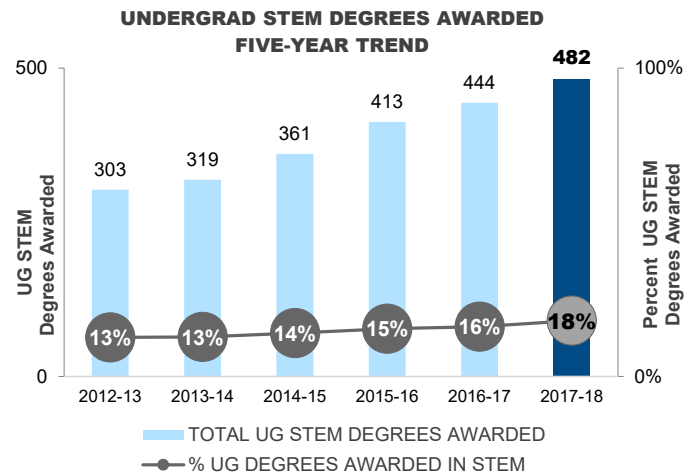
Percent of total UG degrees awarded in STEM fields in 2017-18

▲ **2**

One-year % point change (vs. 2016-17)

▲ **5**

Five-year % point change (vs. 2012-13)



136

Grad degrees awarded in STEM fields in 2017-18

▲ **11%**

One-year % change (vs. 2016-17)

▲ **157%**

Five-year % change (vs. 2012-13)

13%

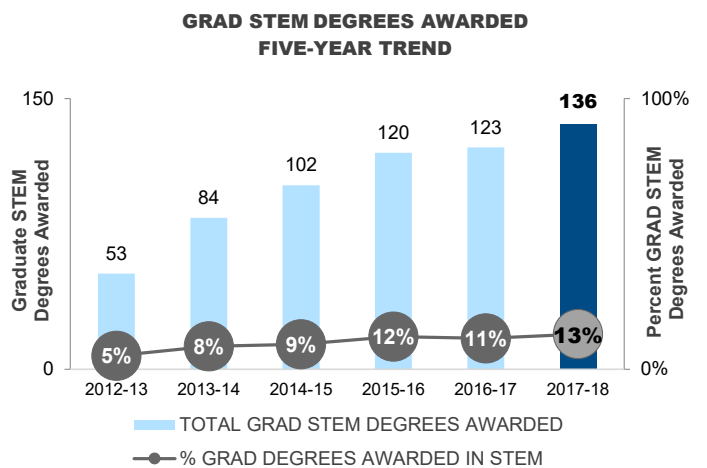
Percent of total Grad degrees awarded in STEM fields in 2017-18

▲ **1.5**

One-year % point change (vs. 2016-17)

▲ **8**

Five-year % point change (vs. 2012-13)



* Data for Years Prior to Fall 2018 been updated to include Marine Science and Technology Major .

618

Total degrees awarded in STEM fields in 2017-18

▲ **9%**

One-year % change (vs. 2016-17)

▲ **74%**

Five-year % change (vs. 2012-13)

17%

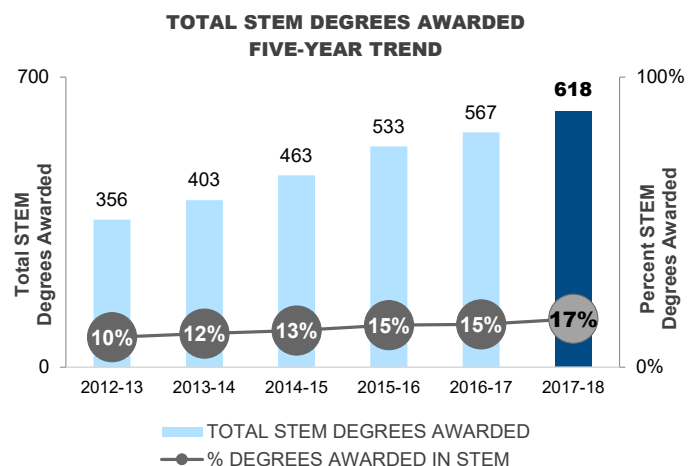
Percent of Total degrees awarded in STEM fields in 2017-18

▲ **1.8**

One-year % point change (vs. 2016-17)

▲ **6**

Five-year % point change (vs. 2012-13)



SERVICE TO THE COMMONWEALTH

CERTIFICATES AWARDED IN STEM FIELDS

0
Total Certificates awarded in STEM fields in 2017-18

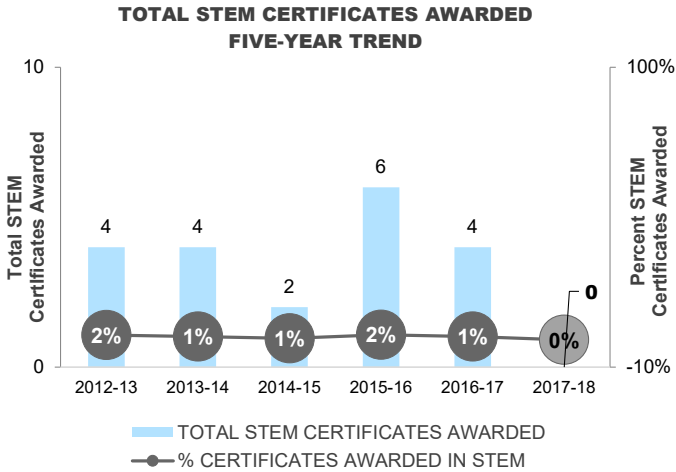
▼ **4**
One-year nominal change (vs. 2016-17)

▼ **4**
Five-year nominal change (vs. 2012-13)

0%
Percent of Total Certificates awarded in STEM fields in 2017-18

▼ **1**
One-year % point change (vs. 2016-17)

▼ **2**
Five-year % point change (vs. 2012-13)

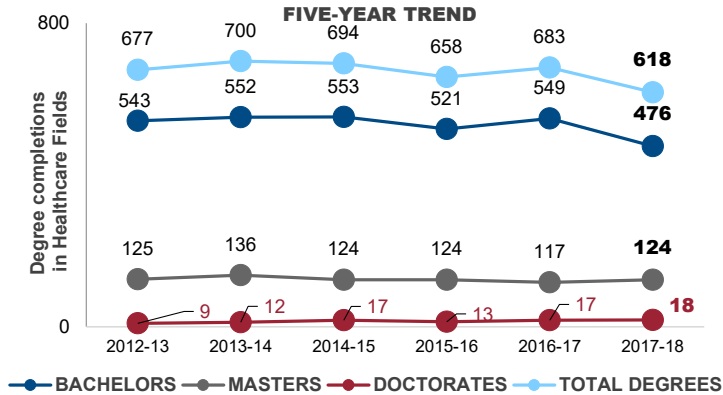


DEGREES AWARDED IN HEALTHCARE FIELDS

618
Total degrees awarded in HealthCare fields in 2017-18

▼ **10%**
One-year % point change (vs. 2016-17)

▼ **9%**
Five-year % point change (vs. 2012-13)



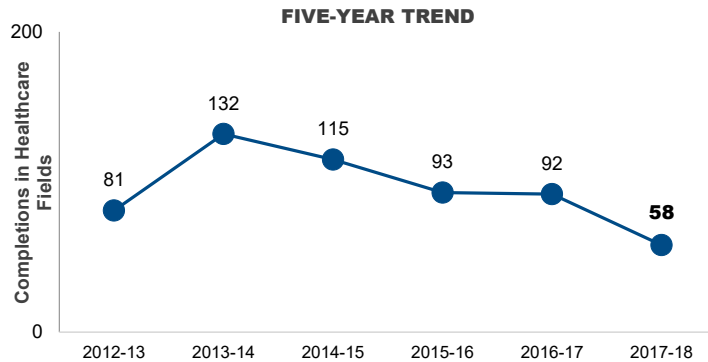
* Certificates Awarded data has been restated for Years before AY 2017-18.

CERTIFICATES AWARDED IN HEALTHCARE FIELDS

58
Total Certificates awarded in HealthCare fields in 2017-18

▼ **37%**
One-year % point change (vs. 2016-17)

▼ **28%**
Five-year % point change (vs. 2012-13)



SERVICE TO THE COMMONWEALTH

MTEL SCIENCE AND MATH TEST-TAKERS

212

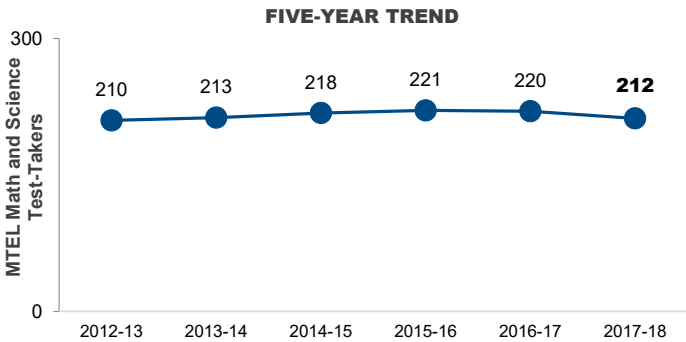
MTEL Math and Science Test-Takers in 2017-18

▼ **8**

One-year nominal change (vs. 2016-17)

▲ **2**

Five-year nominal change (vs. 2012-13)



PERCENT ALUMNI WHO LIVE IN MASSACHUSETTS

72%

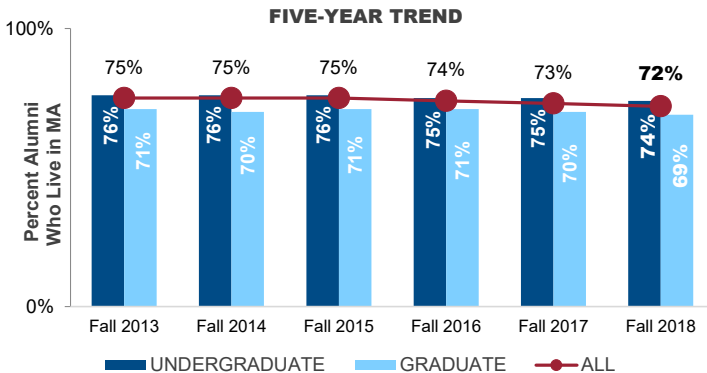
Of all UMass Alumni live in the Commonwealth in Fall 2018

▼ **1**

One-year % point change (vs. Fall 2017)

▼ **3**

Five-year % point change (vs. Fall 2013)



FINANCIAL HEALTH

ENDOWMENT ASSETS AND ANNUAL GROWTH IN ENDOWMENT

\$84.9M

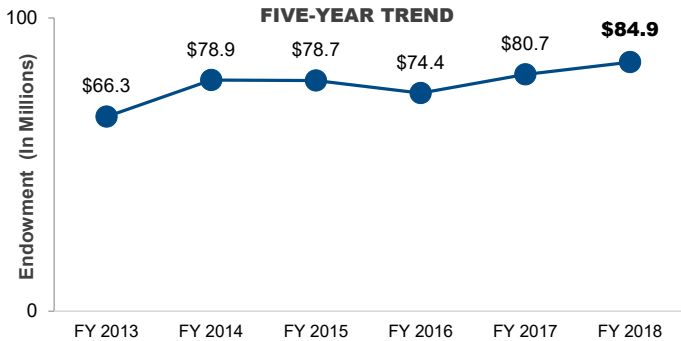
Endowment Assets in FY 2018

▲ **5%**

One-year % change (vs. FY 2017)

▲ **28%**

Five-year % change (vs. FY 2013)



FINANCIAL HEALTH

ENDOWMENT ASSETS AND ANNUAL GROWTH IN ENDOWMENT

5%

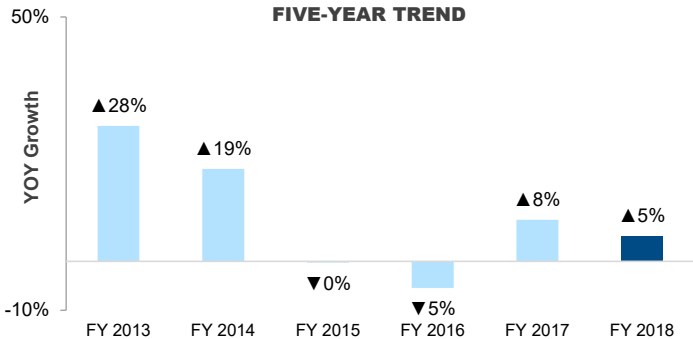
Annual Growth
in FY 2018

▼ 3

One-year
% point change
(vs. FY 2017)

▼ 23

Five-year
% point change
(vs. FY 2013)



ENDOWMENT PER ANNUALIZED STUDENT FTE

\$6.5k

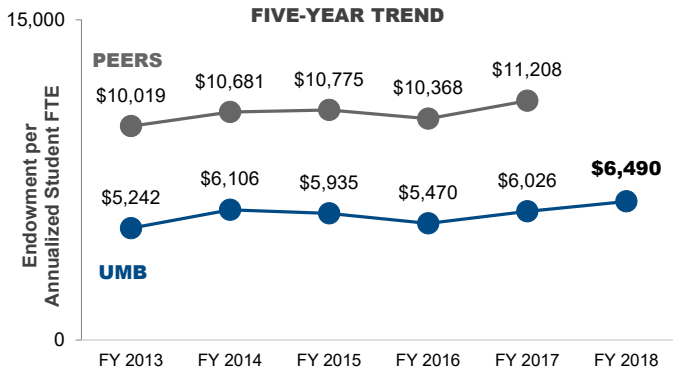
Endowment per Annualized
Student FTE
in FY 2018

▲ 8%

One-year
% change
(vs. FY 2017)

▲ 24%

Five-year
% change
(vs. FY 2013)



* Peer data for FY 2018 not available for reporting purposes.

PRIVATE FUNDS RAISED ANNUALLY

\$8.3M

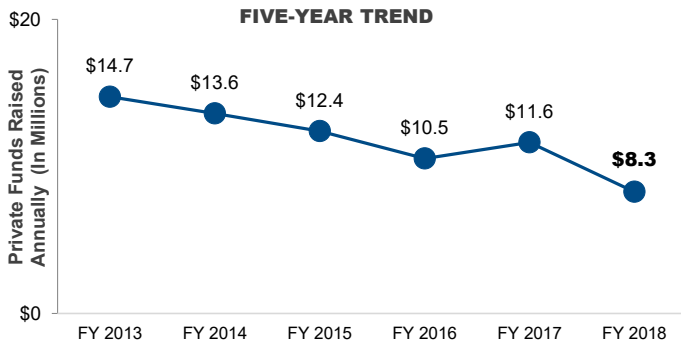
Private Funds
Raised Annually
in FY 2018

▼ 29%

One-year
% change
(vs. FY 2017)

▼ 44%

Five-year
% change
(vs. FY 2013)



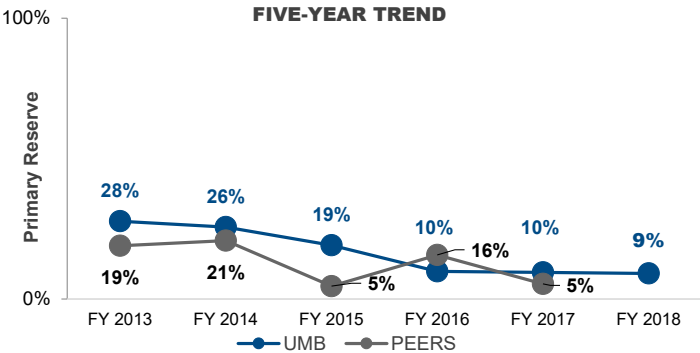
FINANCIAL HEALTH

PRIMARY RESERVE

9%
Primary Reserve
in FY 2018

▼ **1**
One-year
% Point change
(vs. FY 2017)

▼ **19**
Five-year
% Point change
(vs. FY 2013)



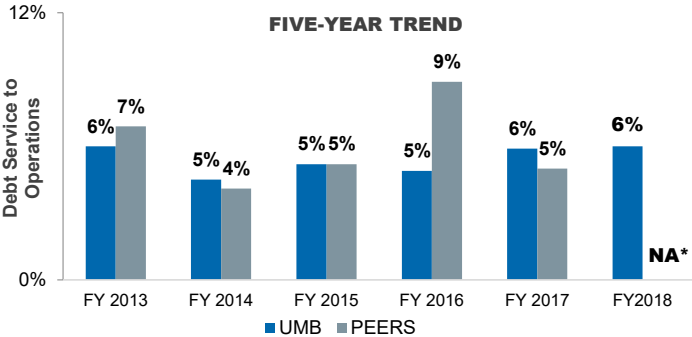
* Peer data for FY 2018 not available for reporting purposes.

DEBT SERVICE TO OPERATIONS

6%
Debt Service
to Operations
in FY2018

• **0**
One-year
% Point change
(vs. FY 2017)

• **0**
Five-year
% Point change
(vs. FY 2013)



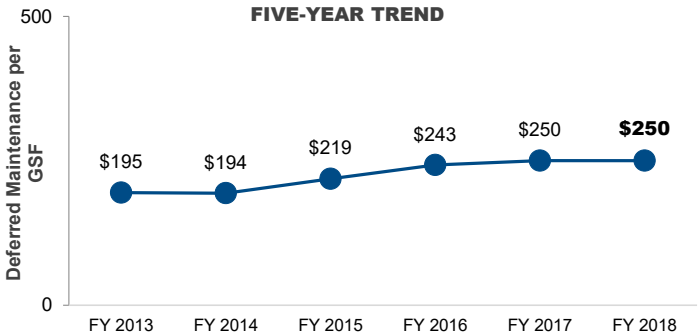
* Peer data for FY2018 not available for reporting purposes.

DEFERRED MAINTENANCE PER GROSS SQUARE FOOT

\$250
Deferred Maintenance
Per Gross Square Foot
in FY 2018

• **0%**
One-year
% change
(vs. FY 2017)

▲ **28%**
Five-year
% change
(vs. FY 2013)



DEFINITIONS AND SOURCES

ACADEMIC QUALITY INDICATORS

Average High School GPA of First-Time

Freshmen. Cumulative GPA for college prep courses with additional weight to honors and AP courses, according to DHE admissions policy, reported on all first-time students.

SAT Scores of Freshmen. All reported SAT scores are based on the sum of the SAT MSS and the ERWS for entering freshmen. A redesigned SAT was used for Fall 2017 admissions; therefore, scores for Fall 2016 and before cannot be compared to scores for Fall 2017 and onwards. The average is the arithmetic mean of these SAT scores. Peer data are from IPEDS.

Average GPA of Entering Transfer

Students. Cumulative GPA of entering transfer students according to DHE admissions.

Student Satisfaction with Educational

Experience. Percent of seniors who responded “good” or “excellent” to the question, “How would you evaluate your entire educational experience at this institution?” on the most recently conducted National Survey of Student Engagement (NSSE).

Student-Faculty Ratio. The ratio of FTE students to FTE instructional faculty. Faculty and students in stand-alone graduate or professional programs such as medicine, law, veterinary, dentistry, social work, business, and public health in which faculty teach virtually only graduate-level students are excluded. Teaching assistants are not counted as faculty. Data and definition are from CDS.

Technology-Enhanced Classrooms.

Classification of the campus’s total classroom capacity in terms of the level of technology support.

Number of Students Enrolled in For-

Credit Internships/Co-Ops. Data are from the Office of the Registrar and the Office of Career Services and Internships. Students enrolled in For-Credit Internships/Co-Ops for the academic year. The class must be for-credit and exclude practicums such as in nursing and teacher education.

Doctoral Degrees Awarded. Number of doctorates awarded for AY 2017-18, which includes August/September, January/February and May award dates. These include both research/scholarship and professional practice doctorates. Peer comparison data are based on research/scholarship doctorates only that were reported to IPEDS.

Postdoctoral Appointees. The number of postdoctoral appointees as reported to the National Science Foundation (NSF).

Total R&D Expenditures. Research and development (R&D) expenditures in all academic fields from all sources (federal, state, local governments, industry, private and institutional) as reported to NSF.

Total R&D Expenditures Ranking. Annual NSF ranking of Total R&D expenditures, for all postsecondary institutions participating in the NSF HERD Survey. UMass Boston’s rank in the annual NSF ranking of Total R&D expenditures among public institutions of higher education with a Carnegie classification of “Research University/High Activity” and with no medical school. Data source NCES WebCaspar/NSF HERD data tables.

Total R&D Expenditures per Tenure

System Faculty. R&D expenditures in all academic fields, from all sources (federal, state, local governments, industry, private and institutional) as reported to NSF, divided by total full-time tenure system faculty as reported to IPEDS. Peer data are from NSF/IPEDS.

Sponsored Instruction and Outreach per

Faculty. Total of Instruction (A00) and Public Service (C00) from the FY final grants schedule, divided by total tenure system faculty as reported to IPEDS.

Number of Patent Applications. Number of U.S. Patent applications filed per year. Data reported by campuses to UMass President’s Office OTCV.

DEFINITIONS AND SOURCES

ACADEMIC QUALITY INDICATORS

License Income. Amount of annual income from license agreements. Data source: Data reported by campuses to UMass President's Office, Office of OTCV.

Percent Tenured/Tenure-Track Faculty

FTE. Percent based on the ratio of Tenured/Tenure-Track Faculty FTE to Total Faculty FTE.

New Tenured/Tenured-Track Faculty

Hired. The number of new tenured/tenure-track Instructional Faculty members hired to start their new positions in the academic year. Data for "New Hires" is based on IPEDS definitions. Prior to 2016, "New Hires" were based on all those on payroll as of November 1 of the reporting year who were hired for full-time employment between July 1 and October 31; 2016 and onwards, IPEDS expanded the hire date to include those that were hired between November 1 of the previous year and October 31 of the reporting year.

New Tenured/Tenure-Track Faculty Hired as Percent of All Tenured/Tenure-Track Faculty.

Number of "Newly hired" Tenured/Tenure-track faculty divided Total Tenured/Tenure-track faculty of an IPEDS reporting cycle. Data for "New Hires" is based on IPEDS definitions. Prior to 2016, "New Hires" were based on all those on payroll as of November 1 of the reporting year who were hired for full-time employment between July 1 and October 31; 2016 and onwards, IPEDS expanded the hire date to include those that were hired between November 1 of the previous year and October 31 of the reporting year.

Change in Tenured/Tenure-Track Faculty.

The difference in the number of tenured/tenure-track faculty from one Fall semester to the next. Faculty members who are on paid leave are included. Does not include individuals whose primary responsibility is administrative.

Change in Faculty FTE. The difference in the total FTE, from one Fall semester to the next, for all full-time and part-time instructional faculty. Includes faculty members who are on paid leave. Does not include individuals whose primary responsibility is administrative. Definition of Faculty FTE is per the Common Data Set and includes all faculty teaching credit courses, including credit courses offered via Continuing Education.

Percent Faculty-of-Color (based on Full-time Instructional Faculty).

The proportion of full-time instructional staff who are U.S. citizens or permanent residents and report their race/ethnicity to be one or more of the following: Hispanic/Latino, American Indian or Alaska Native, Asian, Black or African-American, Native Hawaiian or Other Pacific Islander, or Two or More Races. Race/ethnicity definition is based on IPEDS.

Percent Women Faculty (based on Full-time Instructional Faculty).

The proportion of full-time instructional staff who identify themselves as female.

Faculty Awards. Number of faculty with awards from a list of 24 prominent grant and fellowship programs in the arts, humanities, science, engineering, and health fields (e.g., Fulbright American Scholars, Guggenheim Fellows, MacArthur Foundation Fellows, National Endowment for the Humanities Fellows, NSF Career Awards, Sloan Research Fellows). Data are from *The Top American Research Universities report*.

National Academy Members. Number of faculty with active or emeritus status who have been elected to membership in the National Academy of Sciences, the National Academy of Engineering, or the Institute of Medicine. Data reported in *The Top American Research Universities*.

DEFINITIONS AND SOURCES

ACCESS AND AFFORDABILITY INDICATORS

Percent (In-State) Pell Grant Recipients.

Federal Pell Grants are awarded to low-income undergraduates based on their expected family contribution. Data as reported by campuses to the UMass President's Office of in-state, full-time students with Pell Grants in the Financial Aid Template.

Percent Need Met for In-State Students

Awarded Need-Based Aid. The average percentage of demonstrated financial need that is met by the institution's award of need-based financial aid to in-state undergraduate students. Data as reported to the UMass President's Office in the Financial Aid Template.

Undergraduate Student Debt Load of

Graduating Class. Average debt load is based on the total debt borrowed by an Institution's graduating class (bachelor's, first-time only) divided by the number of students of that cohort that carried any amount of debt. It does not include those students with no debt load. It does not include students who have transferred in. The graduating class includes those that graduated

between July 1 and June 30 of the reporting year. Data is from CDS.

Percent Undergraduates from

Massachusetts. Percentage of total undergraduate students who are 'In-State' or residents of Massachusetts based on tuition residency. For day students, use tuition classification, whereas for CE students, use actual residency at time of matriculation.

Online Course Registrations. Course registrations for the academic year for online credit courses. The academic year includes summer, fall, intersession, and spring. These do not include hybrid courses, but fully online courses only offered via UMassOnline.

Annual Growth in Online Course

Registrations. The percentage rate of growth in course registrations for the fiscal year for online credit courses. The fiscal year includes summer, fall, intersession, and spring. These do not include hybrid courses, but fully online only offered via UMassOnline.

STUDENT SUCCESS AND SATISFACTION INDICATORS

Undergraduate Students of Color.

Undergraduates who self-identify as either African American/Black, Hispanic/ Latino, Asian, Hawaiian/Pacific Islander, American Indian/Alaskan Native, and/or Two or more races. Hispanic students who list one or more additional groups will be coded as Hispanic. Cape Verdean students who identify solely as Cape Verdean will be coded as Black/African American. Included only for U.S. Citizens and Permanent Residents who report race and ethnicity divided by total undergraduate U.S. citizens and permanent residents who report race/ethnicity.

Percent Undergraduates who are First

Generation in College. Percent of first-time, full-time undergraduates where neither parent has earned a bachelor's degree. The source of this data field is the Common Application.

Percent first-time, full-time

Undergraduates with English as a

Second Language. Percent of first-time, full-time Undergraduates who speak a language other than English at home. The source of this data field will be from the Common Application.

Percent Undergraduates who are

International. Percentage of all undergraduates who are non-resident aliens, studying at the university on an eligible visa types, and enrolled in credit courses. Does not include permanent residents, refugees, or US citizens.

Total Students Who Participated in a

Study Abroad Program. Number of students who participated in a credit-bearing study abroad program outside of the U.S. over the most recent academic year, either at UMass or elsewhere.

DEFINITIONS AND SOURCES

STUDENT SUCCESS AND SATISFACTION INDICATORS

Freshmen One-Year Retention Rate.

Percent of first-time, full-time, degree-seeking freshmen who entered UMass in a given Fall and were still enrolled at the institution in the following Fall. Peer data as reported to IPEDS.

Freshmen Four-Year Graduation Rate.

Percent of first-time, full-time, degree-seeking freshmen who entered UMass in a given Fall term and graduated from the institution by the end of their fourth year. Do not include associate's or CE students in the calculation.

Freshmen Six-Year Graduation Rate.

Percent of first-time, full-time freshmen who entered UMass in a given Fall term and had graduated from the institution within six years. Peer data are based on the median as reported to IPEDS. Do not include associate's or CE students in the calculation.

Transfer (Full-Time) One-Year Retention

Rate. Percent of full-time transfer students at any level who entered UMass in a given Fall and were still enrolled at, or graduated from the institution as of the following Fall.

Transfer (Upper-Division) Four-Year

Graduation Rate. Percent of full-time upper division transfers (60+ credits) who entered UMass in a given Fall term and had graduated from the institution within four years.

Student Achievement Measure. SAM tracks student movement across postsecondary institutions to provide a complete picture of undergraduate student progress and completion within the higher education system. SAM is an alternative to the federal graduation rate, which is limited to tracking the completion of first-time, full-time students at one institution.

Alumni Participation Rate. The percentage of undergraduate alumni of record who donated money to the college or university. Alumni of record are former full- or part-time students who received an undergraduate degree and for whom the college or university has a current address. The alumni giving rate is calculated by dividing the number of alumni donors during a given academic year by the number of alumni of record for that same year. Graduates who earned only a graduate degree are excluded.

SERVICE TO THE COMMONWEALTH INDICATORS

Degree Completions. The number of degrees (not including certificates) awarded in the previous academic year, by degree level. As reported to IPEDS.

Percent Alumni who live in

Massachusetts. Percentage of total alumni who currently reside in Massachusetts based on alumni records.

Enrollment in STEM Programs.

Unduplicated count of students enrolled in Science, Technology, Engineering, & Math (STEM) programs. STEM programs are those fields of study defined in the National Science & Mathematics Access to Retain Talent (SMART) Grant with the exclusion of foreign languages. Enrollment count includes undergraduate, graduate and certificate students.

Degrees and Certificates Awarded in

STEM Fields. Number of undergraduate and graduate degrees awarded in STEM fields. STEM fields are those defined in the National Science & Mathematics Access to Retain Talent (SMART) Grant with the exclusion of foreign languages. Certificates data also included separately.

Degrees and Certificates Awarded in

Healthcare Fields. Number of undergraduate and graduate degrees awarded in Health Care fields. Healthcare designation as defined by Campus IR, and based on CIP classification. All of CIP 51, and specific 6-digit CIPs unique to each campus. Certificates data also included separately.

MTEL Science and Math Test-Takers.

Total number of students who took the Massachusetts Tests for Educator Licensure (MTEL) subject tests in science and math fields.

DEFINITIONS AND SOURCES

FINANCIAL HEALTH INDICATORS

Endowment Assets and Annual Growth in

Endowment. The total value of the endowment (includes true and quasi-endowments) at the end of the fiscal year as reported in the UMass Annual BOT report, and the percent change from the previous year. Comparative data are from IPEDS, financial statements, and the NACUBO survey.

Endowment per Annualized Student

(FTE). Total endowment (includes true and quasi-endowments) per annualized FTE student, where FTE of peer institutions is standardized to UMass formulae. Peer data are for comparative peers from financial statements (current year) and IPEDS (prior years).

Private Funds Raised Annually. Private funds raised include restricted and unrestricted revenues from individuals, foundations, corporations, and other organizations. Includes private grant revenues but not private contract revenues. Totals for each year include pledges

made in that year as well as the value of in-kind contributions.

Primary Reserve. Unrestricted net assets as a percentage of total operating expenditures (operating expenditures plus interest expense). Peer data are from published financial statements.

Debt Service to Operations. Debt service as a percentage of total operating expenditures (operating expenditures plus interest expense). Peer data are from published financial statements.

Deferred Maintenance per Gross Square Foot. Deferred Maintenance includes deferred and other maintenance dollars needed to maintain the current function of the campus, calculated by the "Sightlines" Return on Physical Assets methodology (ROPA sm) and shown per square foot of space. Adjusted each year for inflation.

PEER INSTITUTIONS FOR UMASS BOSTON

Cleveland State University

University of Memphis

University of Illinois at Chicago

University of Louisville

University of Nevada-Reno

University of Missouri-Kansas City

University of Maryland Baltimore County

University of Massachusetts Lowell

Please Note: Unless otherwise specified, all data are coordinated by the UMass Boston Office of Institutional Research, Assessment, and Planning.

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DARTMOUTH

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HEADLINES

ACADEMIC QUALITY

UMass Dartmouth continues to maintain the quality of its academic programs. Notably, US News cited UMass Dartmouth in their top tier of National Universities. This is the third year being ranked in this category.

The indicators highlighted below reflect the campus' successes in the past few years. Also highlighted are areas of change.

UMass Dartmouth maintains a strong student quality profile while also fostering access. The

average high school GPA of entering students includes the alternative admissions programs of College Now/START.

Faculty numbers are stable. Recent trends include the hiring of clinical and research faculty who are not on the tenure track. Both the number of women and faculty of color have increased by one percentage point over the previous year. UMass Dartmouth faculty received three Fulbright faculty awards and one NSF career award this year.

ACCESS AND AFFORDABILITY

UMass Dartmouth continues to realize its mission to serve the region and the Commonwealth by providing access to a wide range of capable students to a high-quality education.

The indicators for Pell grants (42%), percent of need met (82%), percent undergraduate students of color (37%), percent from Massachusetts (89%), and percent of undergraduates where English is their second language (11%) demonstrate UMass Dartmouth's strong commitment to the region,

access, and opportunity. Online course registrations had an annual increase of 14%, almost reaching 8,000. This is a 90% increase since AY13. Additionally, the enrollment of undergraduate international students has increased by 43% since Fall 2013 as the University continues to globalize its curriculum and student body. UMass Dartmouth is succeeding in its goal of maintaining a strong student quality profile while also fostering access and diversity.

RESEARCH AND ENGAGEMENT

UMass Dartmouth continued to strengthen its research and engagement by hiring faculty in critical areas of growth. The University has worked to expand the portfolio of funded research activity with particular emphasis on multi-disciplinary research. New initiatives focused on community partnerships and the study of asymmetric warfare have started to generate new proposal activities. The new 76,000 gross square foot SMAST East building in New Bedford offers office, classroom, research labs, and an expanded seawater research facility that is just beginning to be fully utilized.

FY2017 is the second year that UMass Dartmouth has been classified as Doctoral Research University-higher research by Carnegie. The overall research and development expenditures are level compared to last year. The patent office continues to increase its activities; faculty engagement is growing, which resulted in increased patent filings. This year also resulted in another significant increase in income from licensing with a single year increase of 33% and a 159% increase since FY2013.

STUDENT SUCCESS AND SATISFACTION

The one-year retention rate has declined from 74% last year to 71% in 2018 and the four-year graduation was 34%. The six-year graduation rate of 56% is a new record high for UMass Dartmouth. The indicators for transfer student retention at 79% and improved graduation rate fill in the picture that is left incomplete by the standard measure for freshman

success. The Student Achievement Measurement (SAM) reveals that an additional 16% of our Fall 2012 freshmen cohort graduated from another institution. Even though students may not have graduated from UMass Dartmouth, UMass Dartmouth contributed to their success at other institutions.

HEADLINES

SERVICE TO THE COMMONWEALTH

In 2018, UMass Dartmouth graduated approximately 1,980 students awarding over 2,000 degrees/certificates. Because 72% of our graduates remain in Massachusetts, the degrees granted make a direct and significant contribution to the Commonwealth's economy. The indicators for enrollments and degrees granted in Science, Technology, Engineering and Mathematics, and Health Care show our commitment to educating students in these fields.

UMass Dartmouth's DRU status requires a minimum of 20 Research/Scholarship doctoral conferrals. Professional practice doctoral enrollments have grown steadily, enhanced by the addition of the Juris Doctorate and Doctorate of Nursing Practice. Additional Research/Scholarship

doctoral programs are also being developed.

The Law School's first-time pass rate on the July 2018 Massachusetts bar exam was 92.6%, which was third among the eight ABA-accredited law schools in Massachusetts. The law school's first-time bar pass rate for all 2018 bar exam administrations (February and July) across all jurisdictions was 80%, significantly exceeding the results of private regional peer institutions.

The 2018 Nursing graduates achieved a significantly higher first-time pass-rate (98%) than the national average (88%) and the state of Massachusetts' average (89%) on their first-attempt national RN licensure exam (NCLEX).

FINANCIAL HEALTH

A set of fiscal controls and processes are in place to ensure the achievement of full fiscal stability. UMass Dartmouth continues to explore new ways to grow revenues and control spending to create efficiencies. UMass Dartmouth has achieved a positive financial cushion during a time of constrained resources. The primary reserve has contributed to more financial strength and flexibility.

AT-A-GLANCE

ACADEMIC QUALITY

• Average HS GPA of Freshmen	3.25	• Federal Research Expenditures	\$7.2M
• Average SAT Scores of Freshmen		• Patent Applications	14
<i>Arithmetic Mean</i>	1084	• License Income	\$87,675
<i>25th – 75th Percentile</i>	993-1180	• Percent Tenured/Tenure-Track Faculty FTE	64%
• Average GPA of Entering Transfer Students	3.16	• New Tenured/Tenure-Track Faculty Hired	8
• Student Satisfaction with Educational Experience	72%	<i>As Percent of Total T/TT Faculty</i>	3%
• Student-Faculty Ratio	16:1	• Change in Tenured/Tenure-Track Faculty	-1%
• Technology-Enhanced Classrooms	137	• Change in Faculty FTE	-1%
• No. of Doctoral Degrees Awarded	92	• Full-Time Instructional Faculty	
• No. of Postdoctoral Appointees	3	<i>Percent Faculty-of-Color</i>	24%
• Total R&D Expenditures	\$26.6M	<i>Percent Women Faculty</i>	48%
• Total R&D Expenditures Ranking	244	• Faculty Awards	4
• Total R&D Expenditures Ranking among Carnegie Peers, US Publics, Non-Medical	39	• National Academy Members	0
• Total R&D Expenditures per Tenure System Faculty	\$90,258		

ACCESS AND AFFORDABILITY

• Percent In-State Pell Grant Recipients	42%	• Percent Undergraduates from Students from MA	89%
• Percent of Need Met for In-State Students Awarded Need-Based Aid	82%	• Online Course Registrations	7,856
• Average Debt of Students (UG Graduating Class)	\$29,070	• Annual Growth in Online Course Registrations	14%
• Percent Graduating Class with Debt (UG)	96%		

AT-A-GLANCE

STUDENT SUCCESS AND SATISFACTION

• Percent Undergraduates who are Students of Color	37%	• Freshmen Four-Year Graduation Rate	34%
• Percent Undergraduates who are First Generation in College	66%	• Freshmen Six-Year Graduation Rate	56%
• Percent Undergraduates with English as a Second Language	11%	• Transfer (Full-time) One-Year Retention Rate	79%
• Percent Undergraduates who are International	3%	• Transfer (Upper Division) Four-Year Graduation Rate	65%
• Total Students who Participated in a Study Abroad Program	82	• Alumni Participation Rate	3%
• Freshmen One-Year Retention Rate	71%		

SERVICE TO THE COMMONWEALTH

• Degree Completions	1,916	• Degrees Awarded in STEM Fields	466 (24%)
<i>Bachelor's</i>	1,363	<i>Undergraduate</i>	325 (24%)
<i>Master's</i>	461	<i>Graduate</i>	141 (25%)
<i>Doctorates</i>	92	• Degrees Awarded in Healthcare Fields	214 (11%)
• Percent Alumni who Remain in MA	72%	<i>Undergraduate</i>	189 (14%)
• Enrollment in STEM Programs	2,031 (25%)	<i>Graduate</i>	25 (5%)
<i>Undergraduate</i>	1,625 (24%)	• MTEL Science and Math Test-Takers	9
<i>Graduate</i>	406 (26%)		

FINANCIAL HEALTH

• Total Endowment	\$56.4M	• Primary Reserve	15%
• Annual Growth in Endowment	3.4%	• Debt Ratio	8%
• Endowment per Annualized Student FTE	\$7,585	• Deferred Maintenance per GSF	\$229
• Private Funds Raised Annually	\$2.2M		

ACADEMIC QUALITY

AVERAGE HIGH-SCHOOL GPA OF FIRST-TIME FRESHMEN

3.25

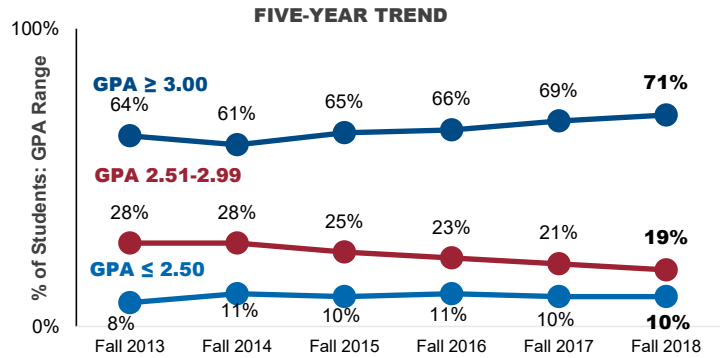
Average HS GPA in Fall 2018

▲ **0.02**

One-year nominal change (vs. Fall 2017)

▼ **0.06**

Five-year nominal change (vs. Fall 2013)



SAT SCORES OF FRESHMEN

1180

SAT Scores of Freshmen 75th Percentile in Fall 2018

▼ **10**

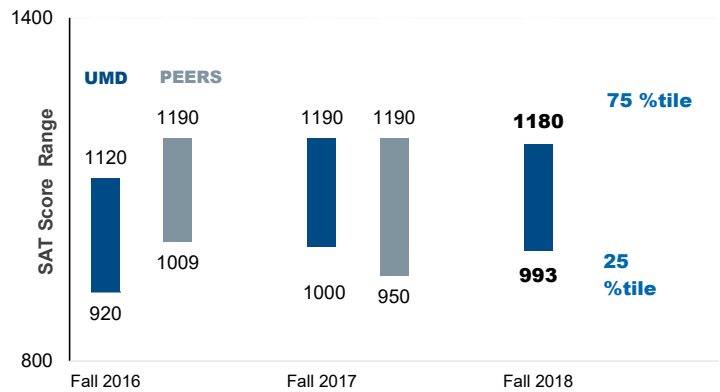
One-year nominal change (vs. Fall 2017)

993

SAT Scores of Freshmen 25th Percentile in Fall 2018

▼ **7**

One-year nominal change (vs. Fall 2017)



* Peer data for Fall 2018 not available for reporting purposes. SAT Test had major revisions starting in 2017

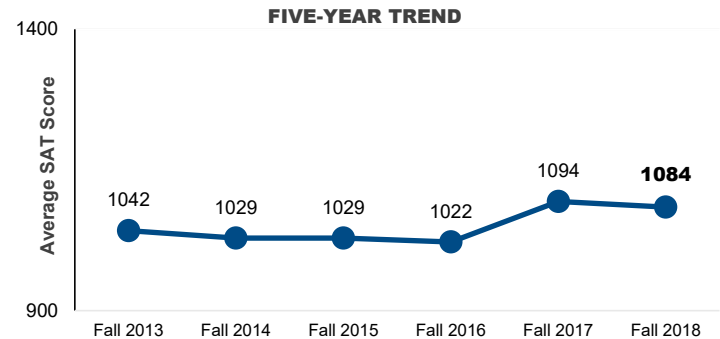
1084

Average SAT Scores of Freshmen in Fall 2018

▼ **10**

One-year nominal change (vs. Fall 2017)

SAT Test had major revisions starting in 2017



ACADEMIC QUALITY

AVERAGE GPA OF ENTERING TRANSFER STUDENTS

3.16

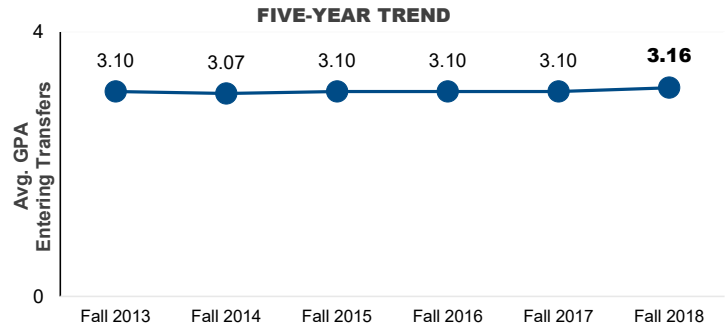
Average transfer GPA in Fall 2018

▲ **0.06**

One-year nominal change (vs. Fall 2017)

▲ **0.06**

Five-year nominal change (vs. Fall 2013)



STUDENT SATISFACTION WITH EDUCATIONAL EXPERIENCE

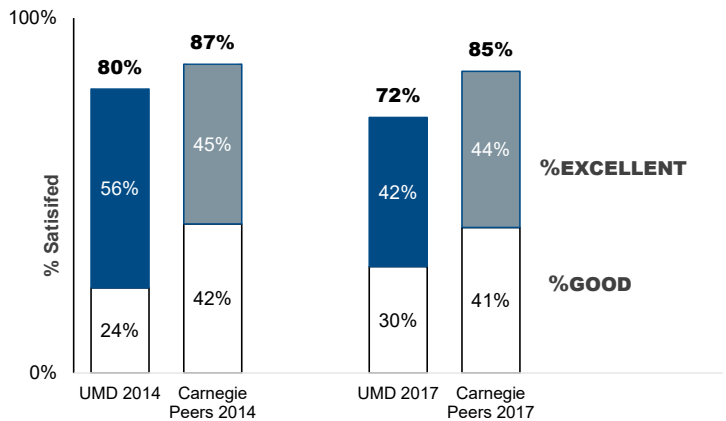
72%

Student Satisfaction as Good or Excellent in UMD 2017

▼ **8**

Three-year % point change (vs. UMD 2014)

Survey is conducted every three years



STUDENT-FACULTY RATIO

16:1

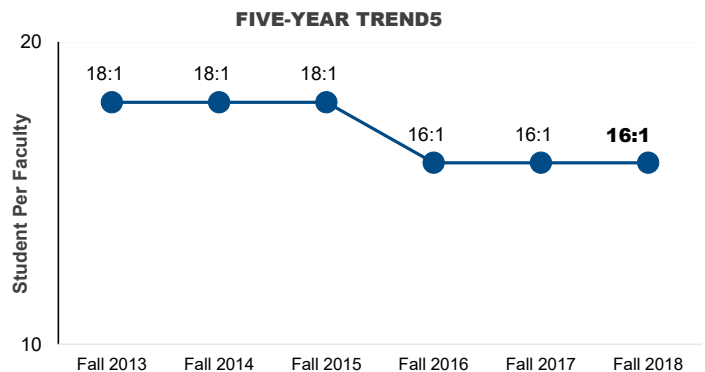
Student-Faculty Ratio in Fall 2018

• **0**

One-year nominal change (vs. Fall 2017)

▼ **2**

Five-year nominal change (vs. Fall 2013)



ACADEMIC QUALITY

TECHNOLOGY-ENHANCED CLASSROOMS

137

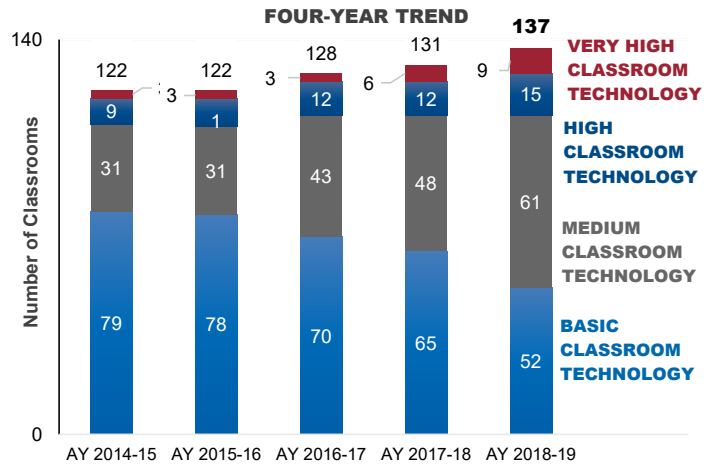
Total Technology Enhanced Classrooms in AY 2018-19

▲ **5%**

One-year % change (vs. AY 2017-18)

▲ **12%**

Four-year % change (vs. AY 2014-15)



DOCTORAL DEGREES AWARDED

92

Doctoral Degrees Awarded in 2017-18

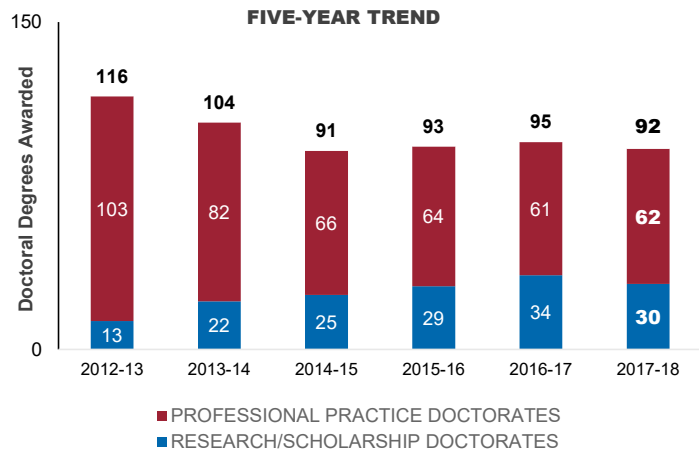
▼ **3**

One-year nominal change (vs. 2016-17)

▼ **24**

Five-year nominal change (vs. 2012-13)

2012-2014 conferrals included the teach-out of SNESSL students.



30

Research Doctoral Degrees Awarded in 2017-18

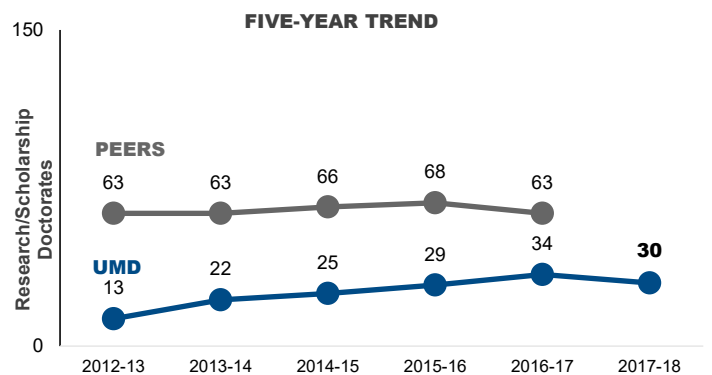
▼ **4**

One-year nominal change (vs. 2016-17)

▲ **17**

Five-year nominal change (vs. 2012-13)

* Peer data for 2017-18 not available for reporting purposes.



ACADEMIC QUALITY

POSTDOCTORAL APPOINTEES

3

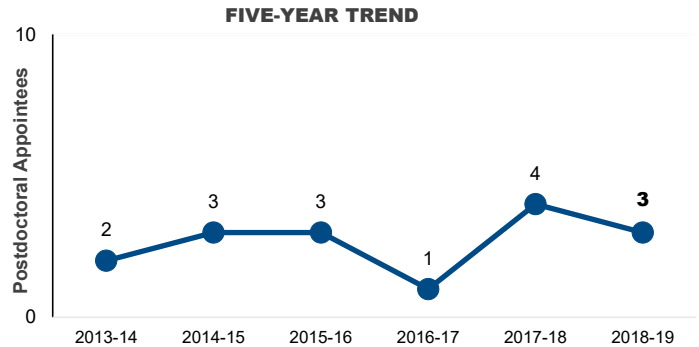
Postdoctoral Appointees in 2018-19

▼ **1**

One-year nominal change (vs. 2017-18)

▲ **1**

Five-year nominal change (vs. 2013-14)



TOTAL R&D EXPENDITURES

\$26.6

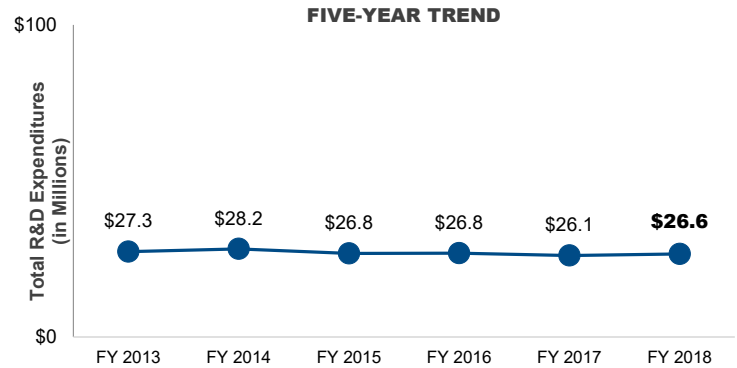
Million in FY 2018

▲ **2%**

One-year % change (vs. FY 2017)

▼ **3%**

Five-year % change (vs. FY 2013)



TOTAL R&D EXPENDITURES RANKINGS

244

Total R&D Expenditures Overall Rankings in FY 2017

▼ **4**

One-year nominal change (vs. FY 2016)

▼ **15**

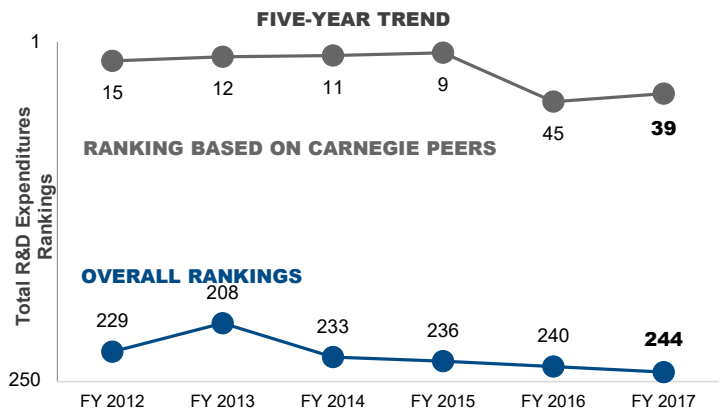
Five-year nominal change (vs. FY 2012)

39

Rankings based on Carnegie Peers in FY 2017

▲ **6**

One-year nominal change (vs. FY 2016)



Carnegie Classification changed in FY2016.

Overall Ranking Source: National Science Foundation Ranking by Total R&D Expenditures.

Ranking based on Carnegie Peers is further standardized by US Publics and Non-Medical Schools.

ACADEMIC QUALITY

TOTAL R&D EXPENDITURES PER TENURED SYSTEM FACULTY

\$90k

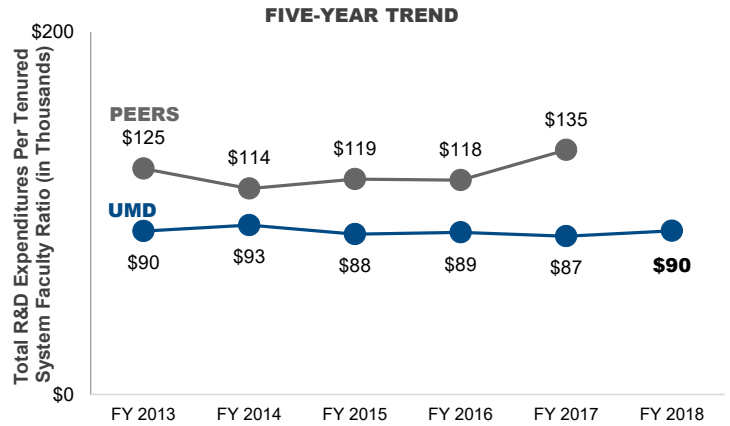
Total R&D Expenditure Per Tenured System Faculty in FY 2018

▲ 3%

One-year % change (vs. FY 2017)

● 0%

Five-year % change (vs. FY 2013)



* Peer data for Fall 2018 not available for reporting purposes.

FEDERAL RESEARCH EXPENDITURES

\$7.2M

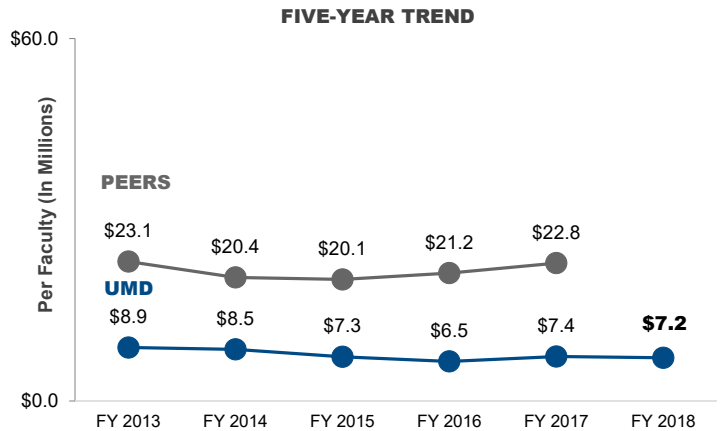
Federal R&D Expenditures in FY 2018

▼ 3%

One-year % change (vs. FY 2017)

▼ 19%

Five-year % change (vs. FY 2013)



* Peer data for FY 2018 not available for reporting purposes.

NUMBER OF PATENT APPLICATIONS

14

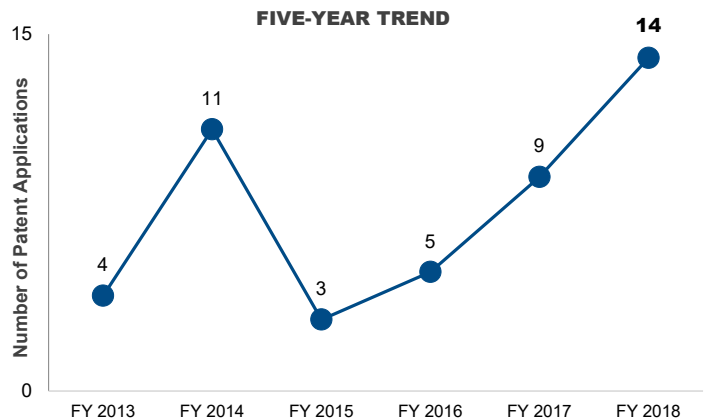
Patent Applications in FY 2018

▲ 5

One-year nominal change (vs. FY 2017)

▲ 10

Five-year nominal change (vs. FY 2013)



ACADEMIC QUALITY

LICENSE INCOME

\$87.7k

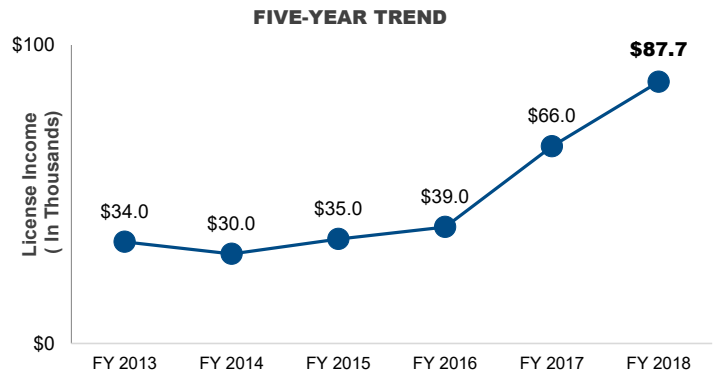
License Income
in FY 2018

▲ 33%

One-year
% change
(vs. FY 2017)

▲ 158%

Five-year
% change
(vs. FY 2013)



PERCENT TENURED/TENURE-TRACK FACULTY

64%

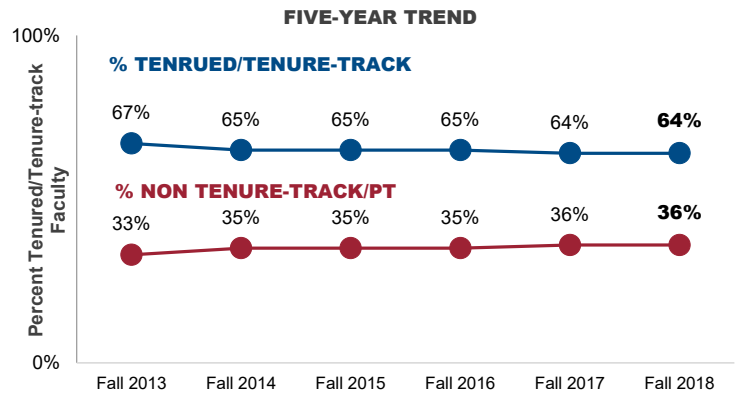
Percent Tenured/
Tenure-track Faculty
in Fall 2018

• 0

One-year
% point change
(vs. Fall 2017)

▼ 3

Five-year
% point change
(vs. Fall 2013)



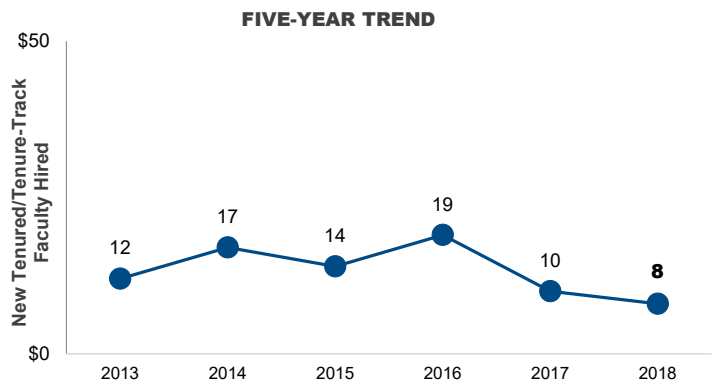
NEW TENURED/TENURE-TRACK FACULTY HIRED

8

New Tenured/
Tenure-Track
Faculty Hired
in 2018

▼ 2

One-year
nominal change
(vs. 2017)



Data for "New Hires" is based on IPEDS definitions from 2016

ACADEMIC QUALITY

NEW TENURED/TENURE-TRACK FACULTY HIRED AS PERCENT OF ALL TENURE-TRACK FACULTY

3%

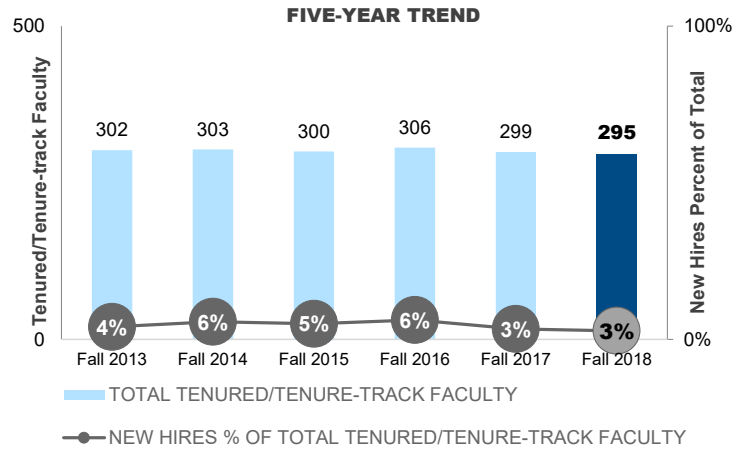
Percent New Tenured/
Tenure-Track Faculty
Hired
in Fall 2018

0

One-year
% point change
(vs. Fall 2017)

▼ 1

Five-year
%point change
(vs. Fall 2013)



Data for "New Hires" is based on IPEDS definitions from 2016

TENURED/TENURE-TRACK FACULTY

295

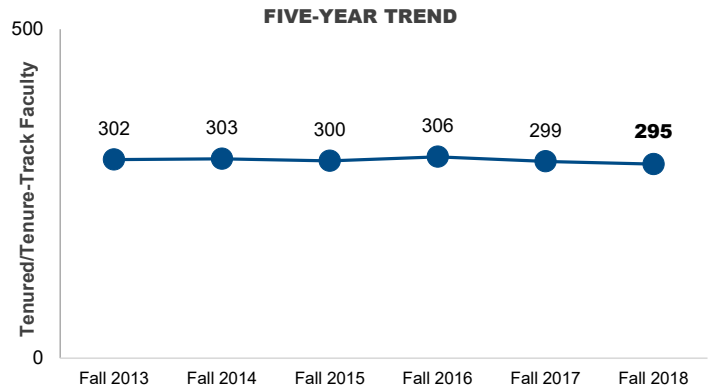
Total Tenured/
Tenure-track Faculty
in Fall 2018

▼ 1%

One-year
% change
(vs. Fall 2017)

▼ 2%

Five-year
% change
(vs. Fall 2013)



FACULTY FTE

463

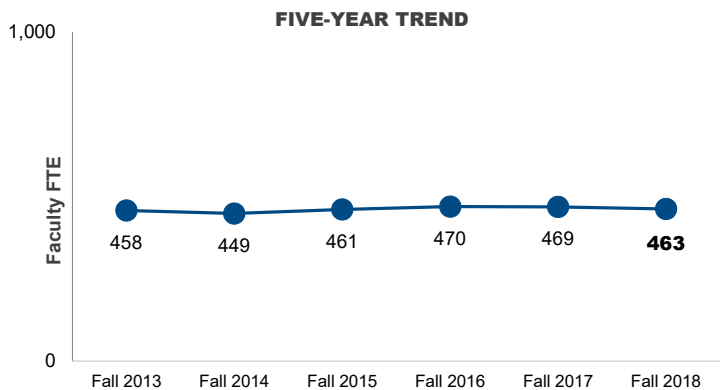
Faculty FTE
in Fall 2018

▼ 1%

One-year
% change
(vs. Fall 2017)

▲ 1%

Five-year
% change
(vs. Fall 2013)



ACADEMIC QUALITY

FACULTY-OF-COLOR

90

Faculty Of Color
in Fall 2018

▲ **5**

One-year
nominal change
(vs. Fall 2017)

▲ **19**

Five-year
nominal change
(vs. Fall 2013)

24%

Percent of
Faculty Of Color
in Fall 2018

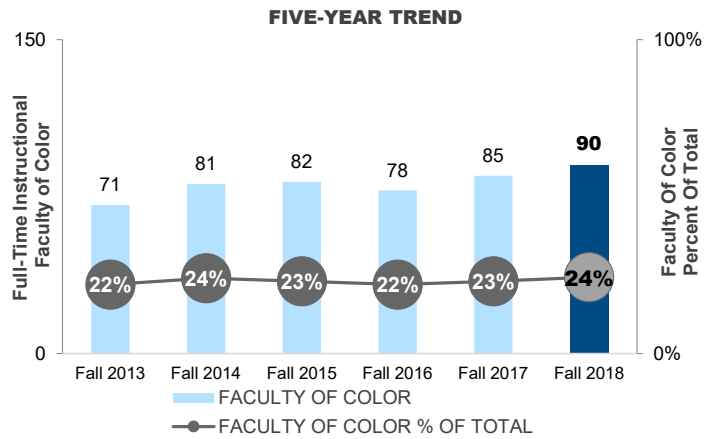
▲ **1**

One-year
% point change
(vs. Fall 2017)

▲ **2**

Five-year
% point change
(vs. Fall 2013)

Faculty-of-Color based on US Citizens/Permanent Residents reporting Race/Ethnicity according to new IPEDS definitions.



WOMEN FACULTY

191

Women Faculty
in Fall 2018

▲ **1**

One-year
nominal change
(vs. Fall 2017)

▲ **33**

Five-year
nominal change
(vs. Fall 2013)

48%

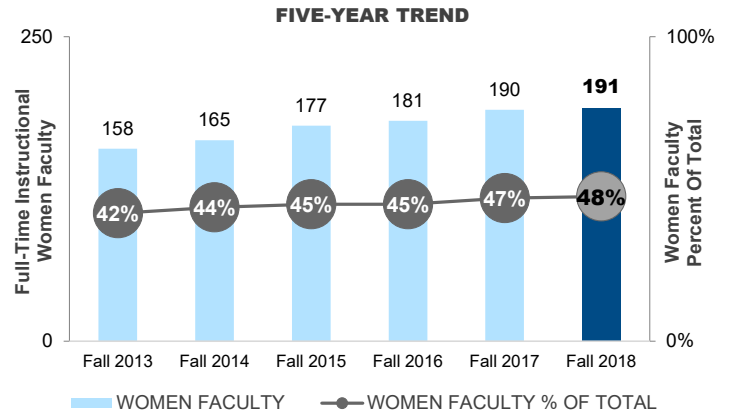
Percent of
Women Faculty
in Fall 2018

▲ **1**

One-year
% point change
(vs. Fall 2017)

▲ **6**

Five-year
% point change
(vs. Fall 2013)



FACULTY AWARDS

4

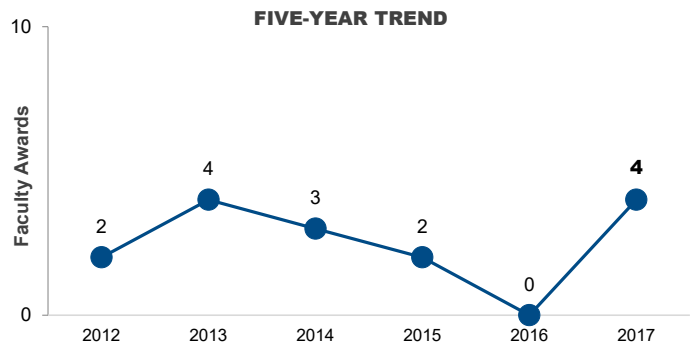
Faculty Awards
in 2017

▲ **4**

One-year
nominal change
(vs. 2016)

▲ **2**

Five-year
nominal change
(vs. 2012)



Source : The Top American Research Universities

ACADEMIC QUALITY

NATIONAL ACADEMY MEMBERS

0

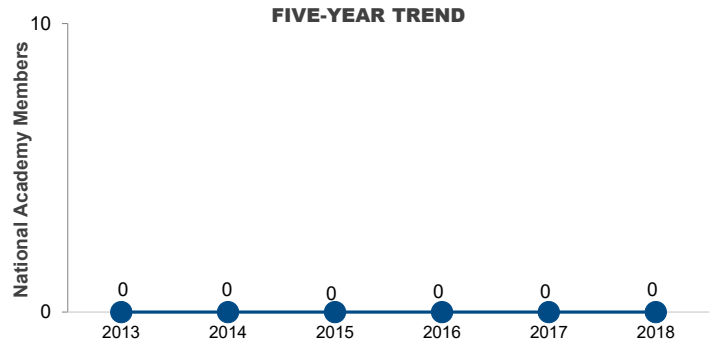
National Academy Members in 2018

. 0

One-year nominal change (vs. 2017)

. 0

Five-year nominal change (vs. 2013)



Source : The Top American Research Universities

ACCESS AND AFFORDABILITY

PERCENT IN-STATE PELL GRANT RECIPIENTS

42%

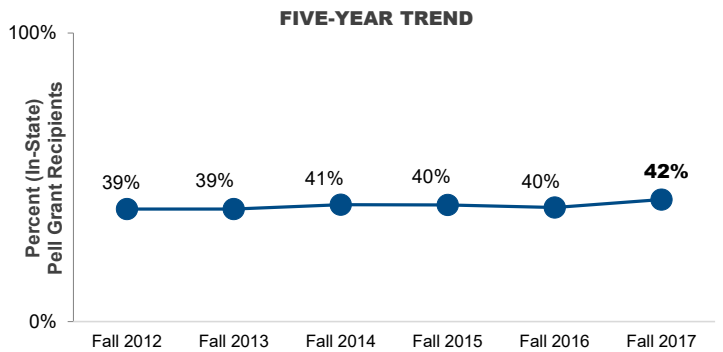
Percent (In-State) Pell Grant Recipients in Fall 2017

▲ 2

One-year % point change (vs. Fall 2016)

▲ 3

Five-year % point change (vs. Fall 2012)



PERCENT NEED MET FOR IN-STATE STUDENTS AWARDED NEED-BASED AID

82%

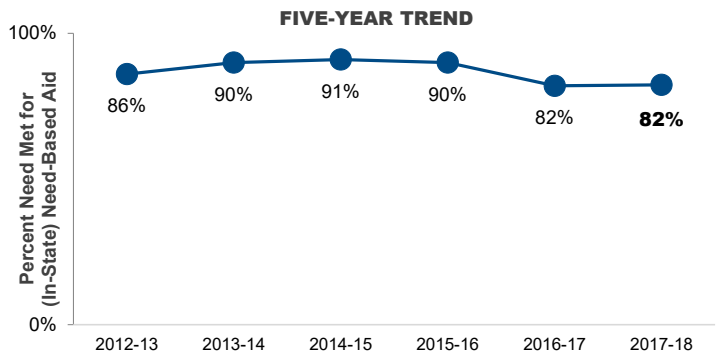
Percent Need Met for (In-State) Need-Based Aid in 2017-18

. 0

One-year % point change (vs. 2016-17)

▼ 4

Five-year % point change (vs. 2012-13)



ACCESS AND AFFORDABILITY

UNDERGRADUATE STUDENT DEBT LOAD OF GRADUATING CLASS

\$29.1k

Average Debt Load in 2018

▲ 2%

One-year % change (vs. 2017)

▼ 1%

Five-year % change (vs. 2013)

96%

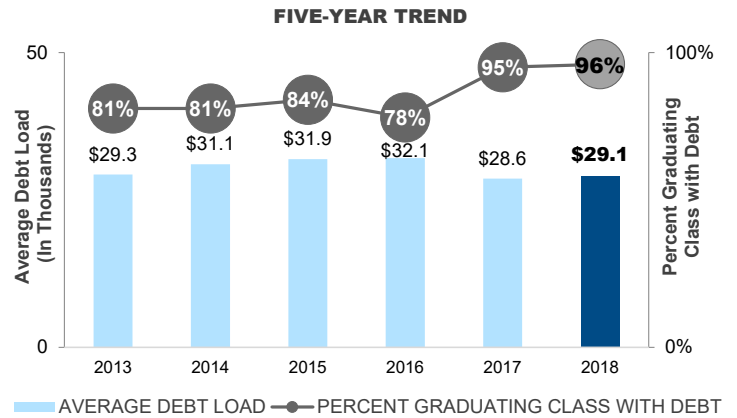
Percent Graduating Class with Debt in 2018

▲ 1

One-year % point change (vs. 2017)

▲ 15

Five-year % point change (vs. 2013)



PERCENT UNDERGRADUATES FROM MASSACHUSETTS

6,107

Undergraduates from Massachusetts in Fall 2018

▼ 1%

One-year % change (vs. Fall 2017)

▼ 12%

Five-year % change (vs. Fall 2013)

89%

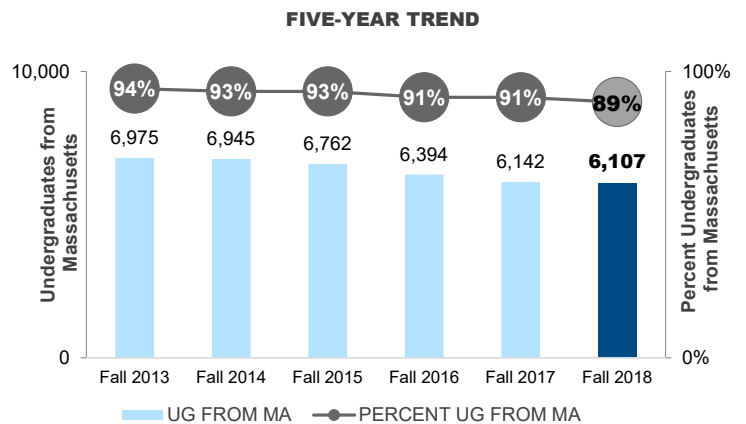
% Undergraduates from Massachusetts in Fall 2018

▼ 2

One-year % point change (vs. Fall 2017)

▼ 5

Five-year % point change (vs. Fall 2013)



ONLINE COURSE REGISTRATIONS

7,856

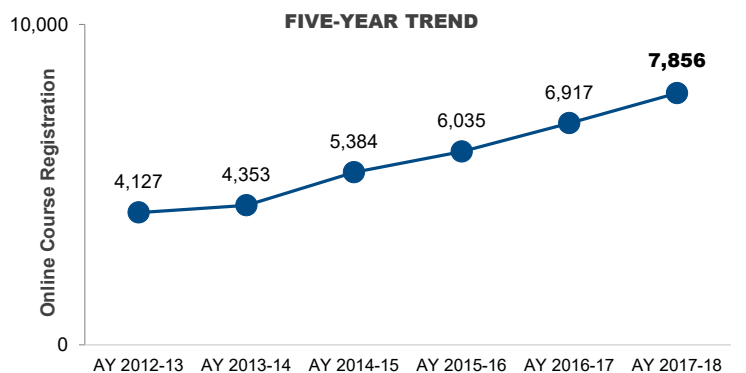
Online Course Registrations in AY 2017-18

▲ 14%

One-year % change (vs. AY 2016-17)

▲ 90%

Five-year % change (vs. AY 2012-13)

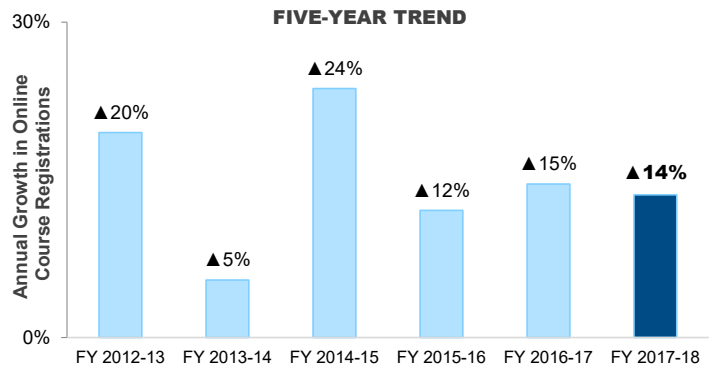


ACCESS AND AFFORDABILITY

ANNUAL GROWTH IN ONLINE COURSE REGISTRATIONS

14%

Annual Growth Online Course Registrations in FY 2017-18



STUDENT SUCCESS AND SATISFACTION

UNDERGRADUATE STUDENTS OF COLOR

2,333

Undergraduates Students of Color in Fall 2018

7%

One-year % change (vs. Fall 2017)

24%

Five-year % change (vs. Fall 2013)

37%

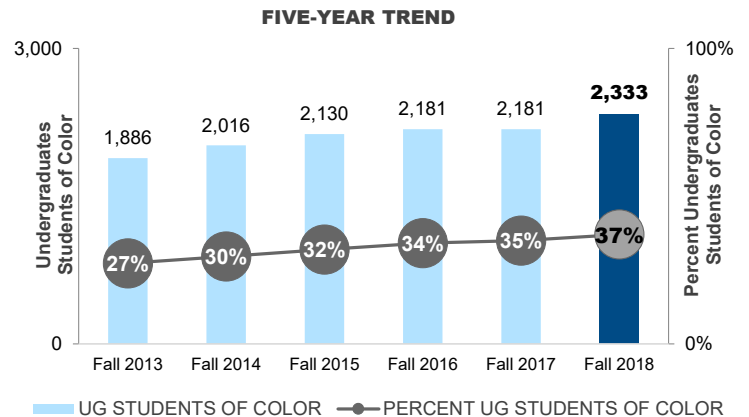
% Undergraduates Students of Color in Fall 2018

2

One-year % point change (vs. Fall 2017)

10

Five-year % point change (vs. Fall 2013)

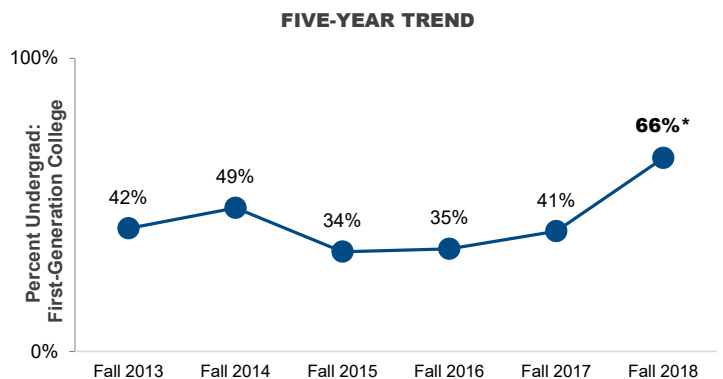


PERCENT UNDERGRADUATES WHO ARE FIRST-GENERATION IN COLLEGE

66%

Percent Undergraduates who are First-Generation College in Fall 2018

*Definition changed in 2018 from Neither Parent has postsecondary degree to Neither Parent has bachelor's degree. Source for data changed in 2018 from CIRP survey to Common Application response.



STUDENT SUCCESS AND SATISFACTION

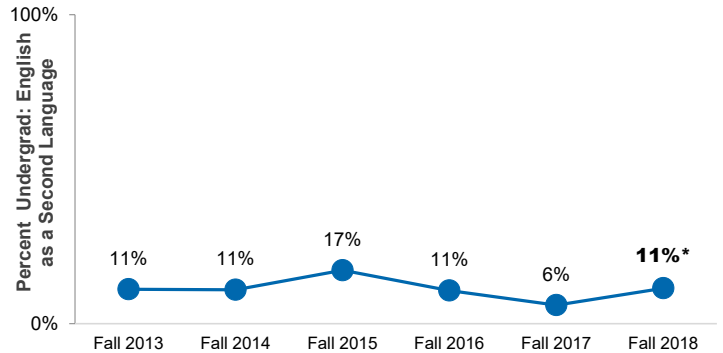
PERCENT FIRST-TIME, FULL-TIME UNDERGRADUATES WITH ENGLISH AS A SECOND LANGUAGE

11%

Percent Undergraduates
Speak English as a
Second Language
in Fall 2018

*Source for data changed in 2018
from CIRP survey to Common Application response.

FIVE-YEAR TREND



PERCENT UNDERGRADUATES WHO ARE INTERNATIONAL

181

International UG
Enrollment
in Fall 2018

▲ **5%**

One-year
% change
(vs. Fall 2017)

▲ **43%**

Five-year
% change
(vs. Fall 2013)

3%

% International UG
Enrollment
in Fall 2018

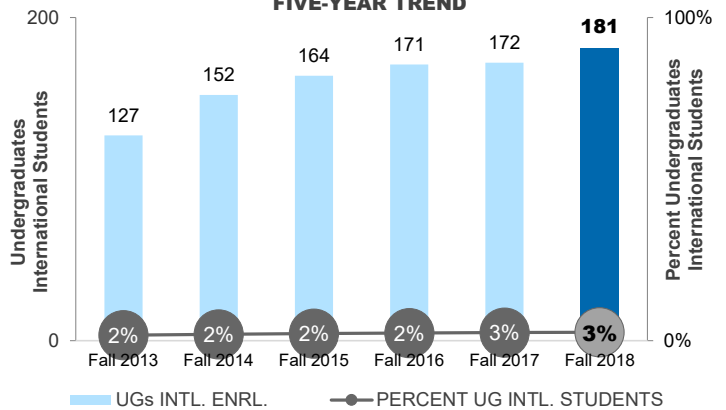
● **0**

One-year
% point change
(vs. Fall 2017)

▲ **1**

Five-year
% point change
(vs. Fall 2013)

FIVE-YEAR TREND



TOTAL STUDENTS WHO PARTICIPATED IN A STUDY ABROAD PROGRAM

82

Students who participated
in Study Abroad
in Fall 2017-Smr.18

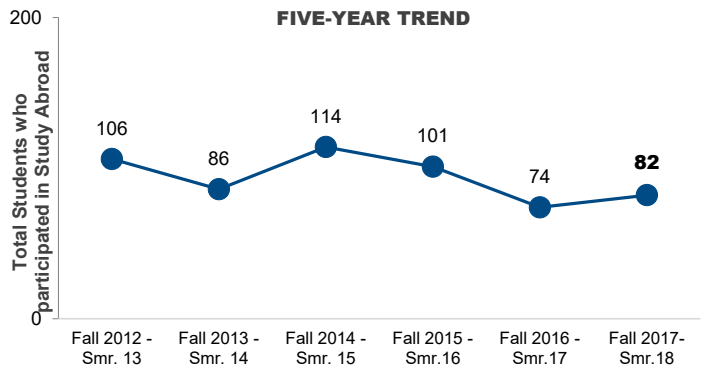
▲ **8**

One-year
nominal change
vs. Fall 2016 -Smr.17

▼ **24**

Five-year
nominal change
vs. Fall 2012 -Smr. 13

FIVE-YEAR TREND



STUDENT SUCCESS AND SATISFACTION

FRESHMEN ONE-YEAR RETENTION RATE

71%

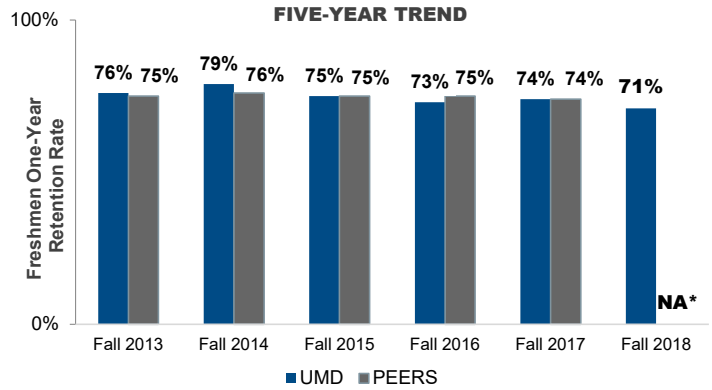
Freshmen One-Year Retention Rate in Fall 2018

▼ **3**

One-year % point change (vs. Fall 2017)

▼ **5**

Five-year % point change (vs. Fall 2013)



* Peer data for Fall 2018 not available for reporting purposes.

FRESHMEN FOUR-YEAR GRADUATION RATES

34%

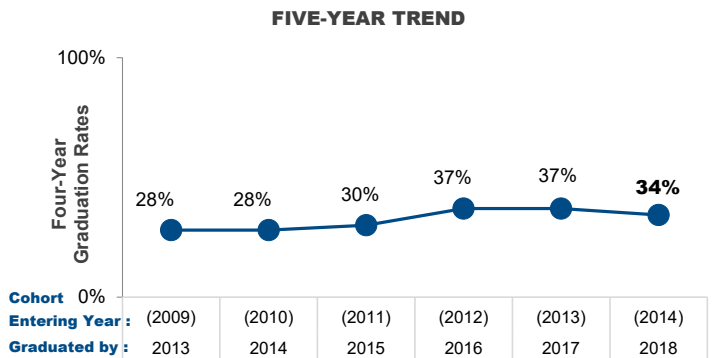
Freshmen Four-Year Graduation Rates in 2018

▼ **3**

One-year % point change (vs. 2017)

▲ **6**

Five-year % point change (vs. 2013)



FRESHMEN SIX-YEAR GRADUATION RATE

56%

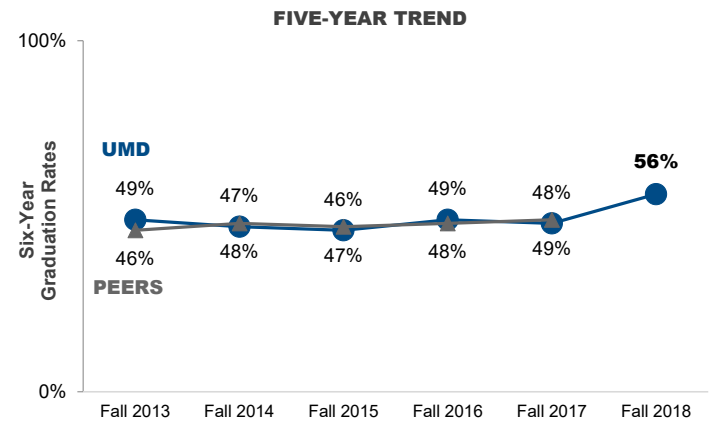
UMD Freshmen Six-Year Graduation Rates in Fall 2018

▲ **8**

One-year % point change (vs. Fall 2017)

▲ **7**

Five-year % point change (vs. Fall 2013)



* Peer data for Fall 2018 not available for reporting purposes.

STUDENT SUCCESS AND SATISFACTION

TRANSFER (FULL-TIME) ONE-YEAR RETENTION RATE

79%

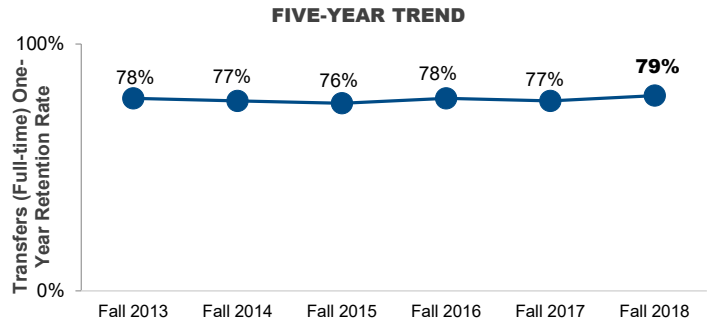
Transfers (Full-time)
One-Year
Retention Rate
in Fall 2018

▲ 2

One-year
% point change
(vs. Fall 2017)

▲ 1

Five-year
% point change
(vs. Fall 2013)



TRANSFER (UPPER DIVISION) FOUR-YEAR GRADUATION RATE

65%

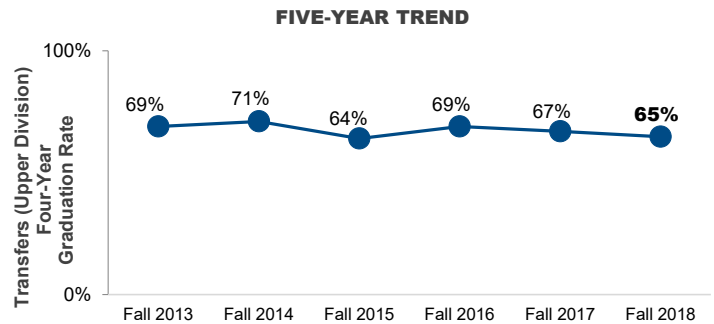
Transfers (Upper
Division) Four-Year
Graduation Rates
in Fall 2018

▼ 2

One-year
% point change
(vs. Fall 2017)

▼ 4

Five-year
% point change
(vs. Fall 2013)



STUDENT ACHIEVEMENT MEASURE

Cohort starting in : 2012-13

45%

Bachelor's Degree
Within 4 Yrs. from
any institution

66%

Bachelor's Degree
Within 5 Yrs. From
any institution

73%

Bachelor's Degree
Within 6 Yrs. From
any institution

38%

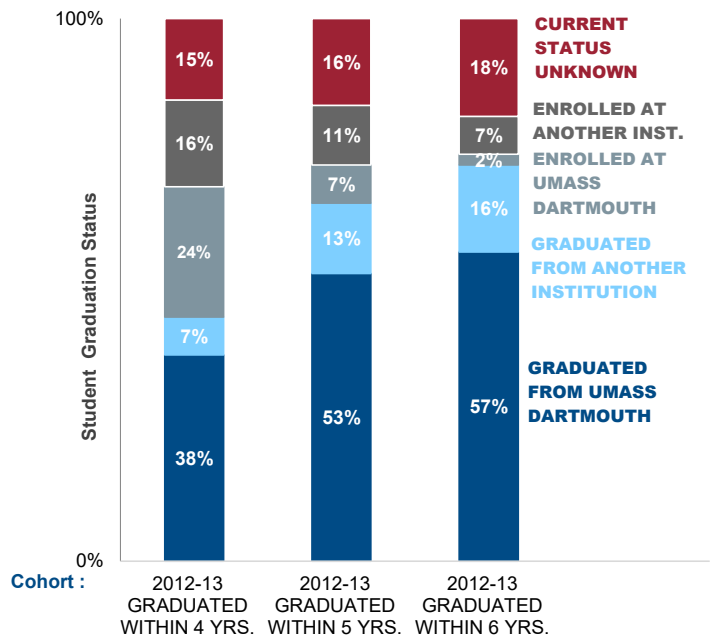
Bachelor's Degree
Within 4 Yrs. from
UMass Dartmouth

53%

Bachelor's Degree
Within 5 Yrs. From
UMass Dartmouth

57%

Bachelor's Degree
Within 6 Yrs. From
UMass Dartmouth



Source : Student Achievement Measure (SAM)

STUDENT SUCCESS AND SATISFACTION

ALUMNI PARTICIPATION RATE

3%

Alumni Participation Rate in 2018

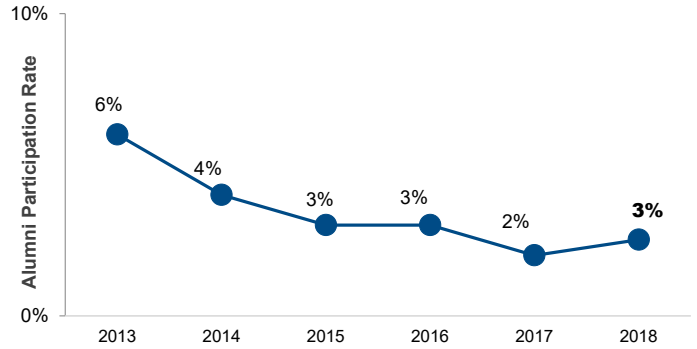
▲ 1

One-year % point change (vs. 2017)

▼ 3

Five-year % point change (vs. 2013)

FIVE-YEAR TREND



SERVICE TO THE COMMONWEALTH

DEGREE COMPLETIONS

1,916

Total degree completions AY 2017-18

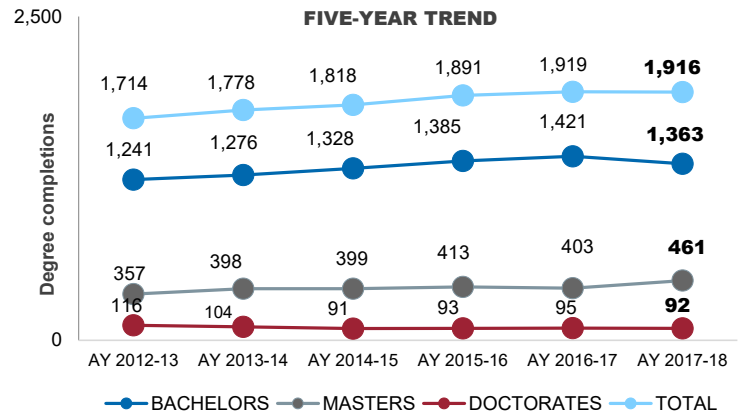
● 0%

One-year % change in total degree completions (vs. AY 2016-17)

▲ 12%

Five-year % change in total degree completions (vs. AY 2012-13)

FIVE-YEAR TREND



PERCENT ALUMNI WHO LIVE IN MASSACHUSETTS

72%

Of all UMass Alumni live in the Commonwealth in Fall 2018

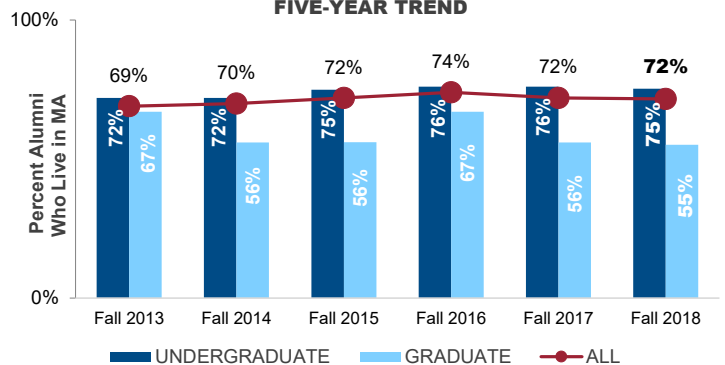
● 0

One-year % point change (vs. Fall 2017)

▲ 3

Five-year % point change (vs. Fall 2013)

FIVE-YEAR TREND



SERVICE TO THE COMMONWEALTH

ENROLLMENT IN STEM PROGRAMS

1,625

UG enrollment in STEM fields in Fall 2018

▼ **3%**

One-year % change (vs. Fall 2017)

▼ **8%**

Five-year % change (vs. Fall 2013)

24%

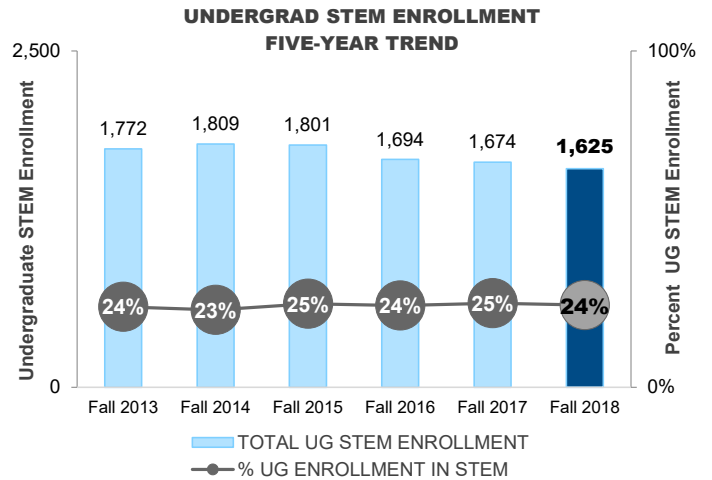
Percent of total UG enrollment in STEM fields in Fall 2018

▼ **1**

One-year % point change (vs. Fall 2017)

• **0**

Five-year % point change (vs. Fall 2013)



406

Grad enrollment in STEM fields in Fall 2018

▼ **4%**

One-year % change (vs. Fall 2017)

▲ **25%**

Five-year % change (vs. Fall 2013)

26%

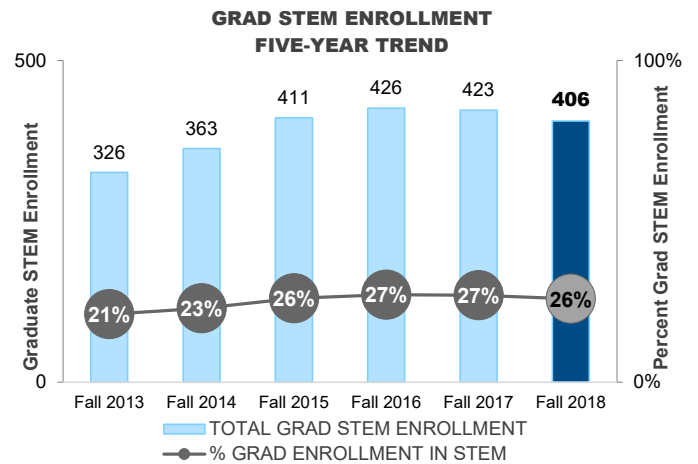
Percent of total Grad enrollment in STEM fields in Fall 2018

▼ **1**

One-year % point change (vs. Fall 2017)

▲ **5**

Five-year % point change (vs. Fall 2013)



2,031

Total enrollment in STEM fields in Fall 2018

▼ **4%**

One-year % change (vs. Fall 2017)

▼ **3%**

Five-year % change (vs. Fall 2013)

25%

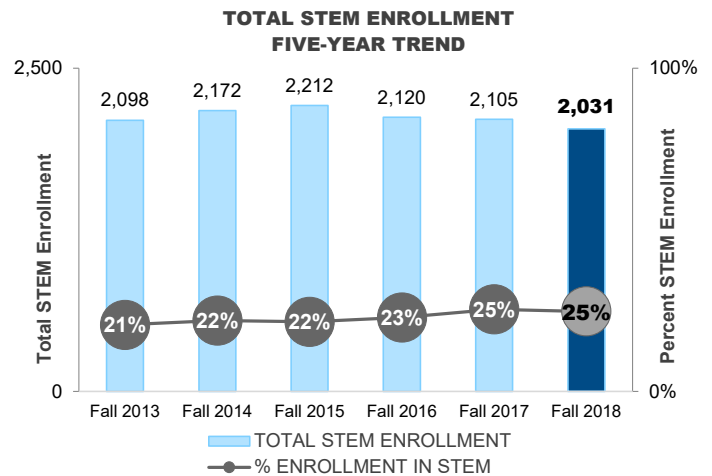
Percent of total enrollment in STEM fields in Fall 2018

• **0**

One-year % point change (vs. Fall 2017)

▲ **4**

Five-year % point change (vs. Fall 2013)



SERVICE TO THE COMMONWEALTH

DEGREES AWARDED IN STEM FIELDS

325

UG degrees awarded in STEM fields in 2017-18

▼ **4%**

One-year % change (vs. 2016-17)

▲ **48%**

Five-year % change (vs. 2012-13)

24%

Percent of total UG degrees awarded in STEM fields in 2017-18

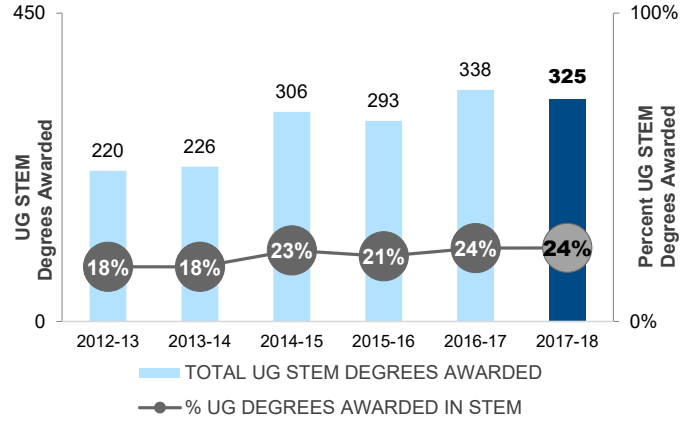
• **0**

One-year % point change (vs. 2016-17)

▲ **6**

Five-year % point change (vs. 2012-13)

UNDERGRAD STEM DEGREES AWARDED FIVE-YEAR TREND



141

Grad degrees awarded in STEM fields in 2017-18

▲ **13%**

One-year % change (vs. 2016-17)

▲ **50%**

Five-year % change (vs. 2012-13)

25%

Percent of total Grad degrees awarded in STEM fields in 2017-18

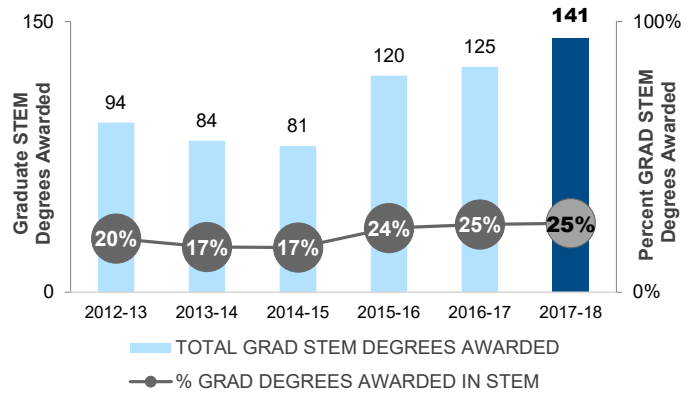
• **0**

One-year % point change (vs. 2016-17)

▲ **5**

Five-year % point change (vs. 2012-13)

GRAD STEM DEGREES AWARDED FIVE-YEAR TREND



466

Total degrees awarded in STEM fields in 2017-18

▲ **1%**

One-year % change (vs. 2016-17)

▲ **48%**

Five-year % change (vs. 2012-13)

24%

Percent of Total degrees awarded in STEM fields in 2017-18

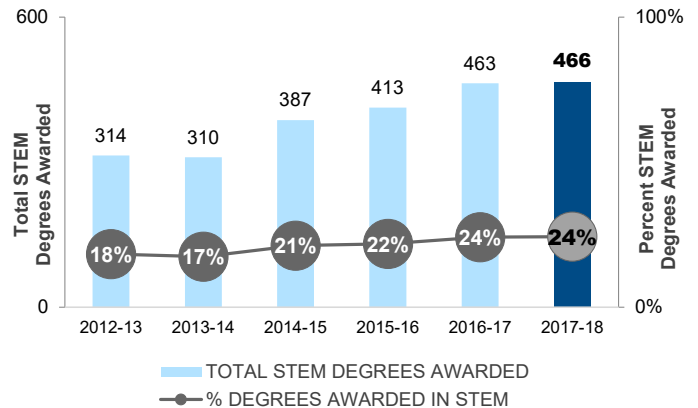
• **0**

One-year % point change (vs. 2016-17)

▲ **6**

Five-year % point change (vs. 2012-13)

TOTAL STEM DEGREES AWARDED FIVE-YEAR TREND



SERVICE TO THE COMMONWEALTH

CERTIFICATES AWARDED IN STEM FIELDS

5

Total Certificates awarded in STEM fields in 2017-18

▲ **5**

One-year nominal change (vs. 2016-17)

▼ **1**

Five-year nominal change (vs. 2012-13)

6%

Percent of Total Certificates awarded in STEM fields in 2017-18

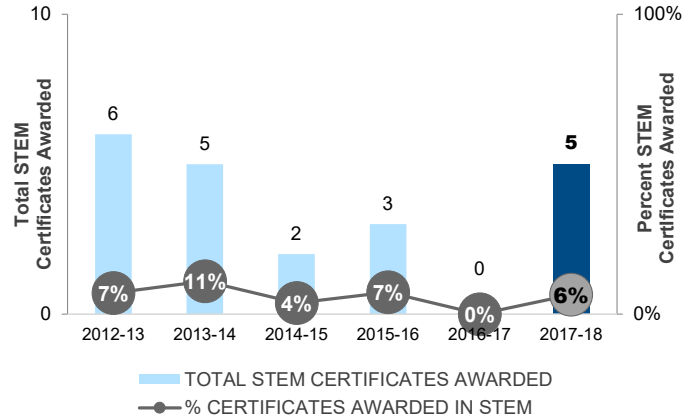
▲ **6**

One-year % point change (vs. 2016-17)

▼ **1**

Five-year % point change (vs. 2012-13)

TOTAL STEM CERTIFICATES AWARDED FIVE-YEAR TREND



DEGREES AWARDED IN HEALTHCARE FIELDS

214

Total degrees awarded in HealthCare fields in 2017-18

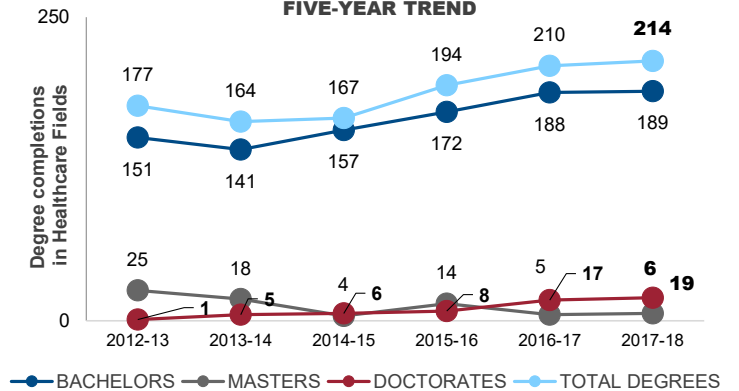
▲ **2%**

One-year % change (vs. 2016-17)

▲ **21%**

Five-year % change (vs. 2012-13)

FIVE-YEAR TREND



CERTIFICATES AWARDED IN HEALTHCARE FIELDS

17

Total Certificates awarded in HealthCare fields in 2017-18

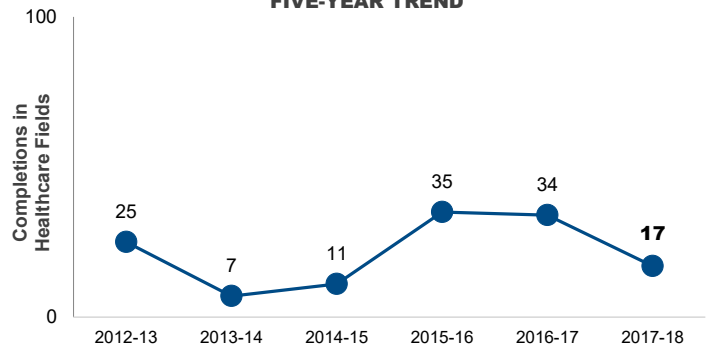
▼ **50%**

One-year % change (vs. 2016-17)

▼ **32%**

Five-year % point change (vs. 2012-13)

FIVE-YEAR TREND



SERVICE TO THE COMMONWEALTH

MTEL SCIENCE AND MATH TEST-TAKERS

9

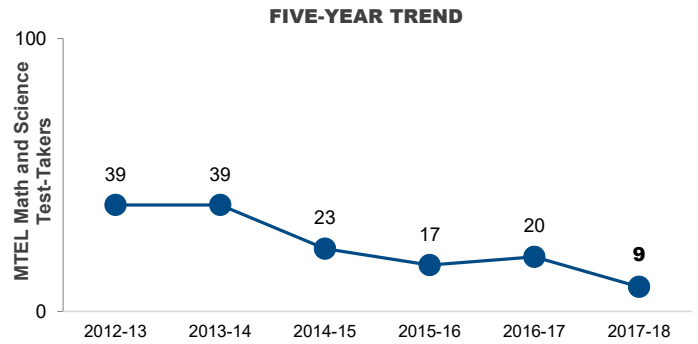
MTEL Math and Science Test-Takers in 2017-18

▼ 11

One-year nominal change (vs. 2016-17)

▼ 30

Five-year nominal change (vs. 2012-13)



FINANCIAL HEALTH

ENDOWMENT ASSETS AND ANNUAL GROWTH IN ENDOWMENT

\$56.4M

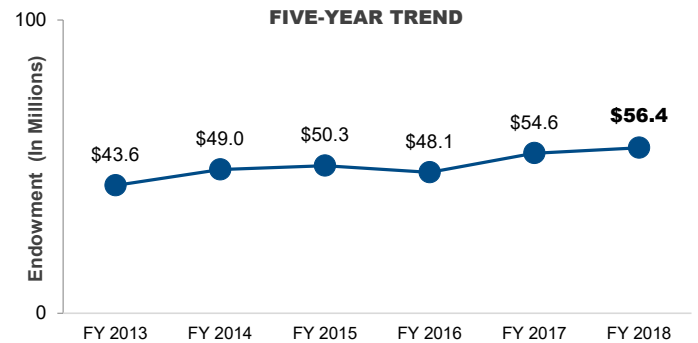
Endowment Assets in FY 2018

▲ 3%

One-year % change (vs. FY 2017)

▲ 29%

Five-year % change (vs. FY 2013)



3%

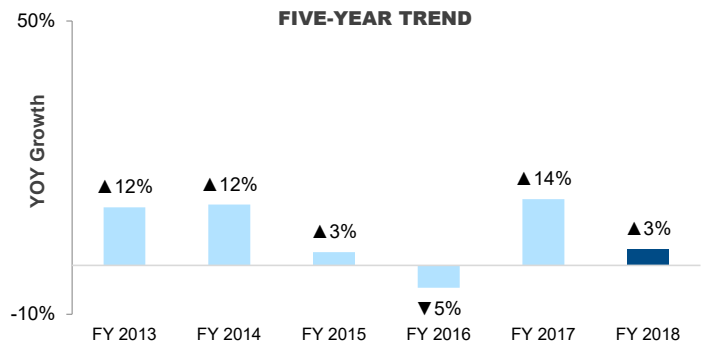
Annual Growth in FY 2018

▼ 11

One-year % point change (vs. FY 2017)

▼ 9

Five-year % point change (vs. FY 2013)



FINANCIAL HEALTH

ENDOWMENT PER ANNUALIZED STUDENT FTE

\$7.6k

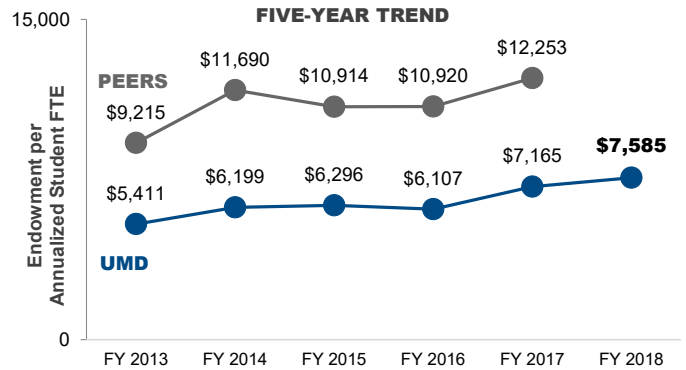
Endowment per Annualized Student FTE in FY 2018

▲ 6%

One-year % change (vs. FY 2017)

▲ 40%

Five-year % change (vs. FY 2013)



PRIVATE FUNDS RAISED ANNUALLY

\$2.2M

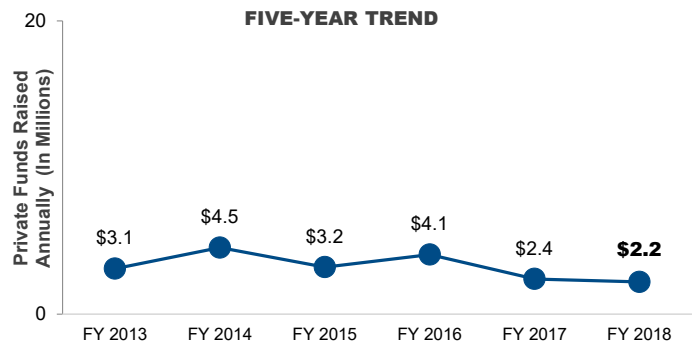
Private Funds Raised Annually in FY 2018

▼ 8%

One-year % change (vs. FY 2017)

▼ 29%

Five-year % change (vs. FY 2013)



PRIMARY RESERVE

15%

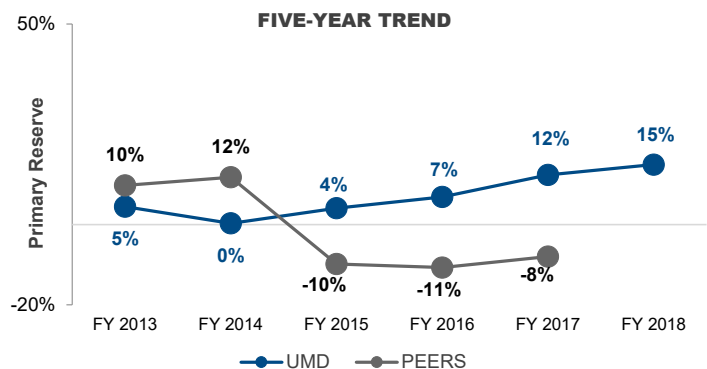
Primary Reserve in FY 2018

▲ 3

One-year % Point change (vs. FY 2017)

▲ 10

Five-year % Point change (vs. FY 2013)



* Peer data for FY 2018 not available for reporting purposes. Peer data only available on 50% of the comparative schools.

FINANCIAL HEALTH

DEBT SERVICE TO OPERATIONS

8%

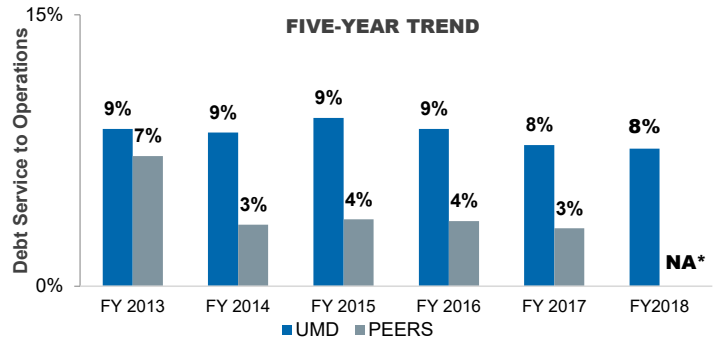
Debt Service to Operations in FY2018

0

One-year % Point change (vs. FY 2017)

1

Five-year % Point change (vs. FY 2013)



* Peer data for FY2018 not available for reporting purposes. Peer data only available on 50% of the comparative schools.

DEFERRED MAINTENANCE PER GROSS SQUARE FOOT

\$229

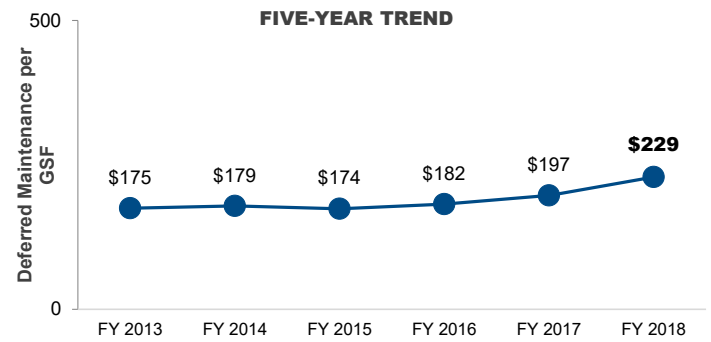
Deferred Maintenance Per Gross Square Foot in FY 2018

16%

One-year % change (vs. FY 2017)

31%

Five-year % change (vs. FY 2013)



DEFINITIONS AND SOURCES

ACADEMIC QUALITY INDICATORS

Average High School GPA of First-Time Freshmen.

Cumulative GPA for college prep courses with additional weight to honors and AP courses, according to DHE admissions policy, reported on all first-time students.

SAT Scores of Freshmen. SAT scores of Freshmen. All reported SAT scores are based on the sum of the SAT MSS and the ERWS for entering freshmen. A redesigned SAT was used for Fall 2017 admissions; therefore, scores for Fall 2016 and before cannot be compared to scores for Fall 2017 and onward. The average is the arithmetic mean of these SAT scores. Peer data are from IPEDS.

Average GPA of Entering Transfer Students.

Cumulative GPA of entering transfer students according to DHE admissions policy.

Student Satisfaction with Educational Experience.

Percent of seniors who responded “good” or “excellent” to the question, “How would you evaluate your entire educational experience at this institution?” on the most recently conducted National Survey of Student Engagement (NSSE).

Student-Faculty Ratio. The ratio of FTE students to FTE instructional faculty. Faculty and students in stand-alone graduate or professional programs such as law, education, public policy, and marine science in which faculty teach virtually only graduate-level students are excluded. Teaching assistants are not counted as faculty. Data and definition are from CDS.

Technology-Enhanced Classrooms.

Classification of the campus’s total classroom capacity in terms of the level of technology-support.

Doctoral Degrees Awarded. Number of doctorates awarded for AY 2017-18, which includes August/September, January/February and May award dates. These include both research/scholarship and professional practice doctorates. Peer comparison data are based on research/scholarship doctorates only that were reported to IPEDS.

Postdoctoral Appointees. The number of postdoctoral appointees as reported to the National Science Foundation (NSF).

Total R&D Expenditures. Research and development (R&D) expenditures in all academic fields from all sources (federal, state, local governments, industry, private and institutional) as reported to NSF.

Total R&D Expenditures Ranking. Annual NSF ranking of Total R&D expenditures, for all postsecondary institutions participating in the NSF HERD Survey. UMass Dartmouth’s rank in the annual NSF ranking of Total R&D expenditures among public institutions of higher education with a Carnegie classification of “Masters Colleges and Universities” (prior to FY16) and “Doctoral Universities: High Research Activity” (FY16-present) and with no medical school. Data source NCES WebCaspar/NSF HERD data tables.

Total R&D Expenditures per Tenure System Faculty.

R&D expenditures in all academic fields, from all sources (federal, state, local governments, industry, private and institutional) as reported to NSF, divided by total tenure system faculty as reported to IPEDS. Peer data are from NSF/IPEDS and include aspirant peers.

Federal Research Expenditures. R&D expenditures in all academic fields, from all federal sources, as reported to NSF. Peer data are from NSF and include aspirant peers.

Number of Patent Applications. Number of U.S. Patent applications filed per year. Data reported by campuses to UMass President’s Office, Office of OTCV.

License Income. Amount of annual income from license agreements. Data reported by campuses to UMass President’s Office, Office of OTCV.

Percent Tenured/Tenure-Track Faculty.

Percent based on the ratio of Tenured/Tenure-Track Faculty FTE to Total Instructional Faculty FTE. Does not include Research only Faculty.

New Tenured/Tenured-Track Faculty Hired.

The number of new tenured/tenure-track Instructional Faculty members hired to start their new positions in the academic year. Data for “New Hires” is based on IPEDS definitions. Prior to 2016, “New Hires” were based on all those on payroll as of November 1 of the reporting year who were hired for

DEFINITIONS AND SOURCES

ACADEMIC QUALITY INDICATORS

full-time employment between July 1 and October 31; 2016 and onwards, IPEDS expanded the hire date to include those that were hired between November 1 of the previous year and October 31 of the reporting year.

New Tenured/Tenure-Track Faculty Hired as Percent of All Tenured/Tenure-Track Faculty.

Number of “Newly hired” Tenured/Tenure-track faculty divided Total Tenured/Tenure-track faculty of an IPEDS reporting cycle. Data for “New Hires” is based on IPEDS definitions. Prior to 2016, “New Hires” were based on all those on payroll as of November 1 of the reporting year who were hired for full-time employment between July 1 and October 31; 2016 and onwards, IPEDS expanded the hire date to include those that were hired between November 1 of the previous year and October 31 of the reporting year.

Tenured/Tenure-Track Faculty. The difference in the number of tenured/tenure-track faculty from one Fall semester to the next. Faculty members who are on paid leave are included. Does not include individuals whose primary responsibility is administrative.

Faculty FTE. The difference in the total FTE, from one Fall semester to the next, for all full-time and part-time instructional faculty. Includes faculty members who are on paid leave. Does not include individuals whose primary responsibility is

administrative. Definition of Faculty FTE is per the Common Data Set, and includes all faculty teaching credit courses, including credit courses offered via Continuing Education.

Faculty-of-Color. The proportion of full-time instructional staff who are U.S. citizens or permanent residents and report their race/ethnicity to be one or more of the following: Hispanic/Latino, American Indian or Alaska Native, Asian, Black or African-American, Native Hawaiian or Other Pacific Islander, or Two or More Races. Race/ethnicity definition is based on IPEDS.

Women Faculty. The proportion of full-time instructional staff who identify themselves as female.

Faculty Awards. Number of faculty with awards from a list of 24 prominent grant and fellowship programs in the arts, humanities, science, engineering and health fields (e.g., Fulbright American Scholars, Guggenheim Fellows, MacArthur Foundation Fellows, National Endowment for the Humanities Fellows, NSF Career Awards, Sloan Research Fellows). Data reported in *The Top American Research Universities*.

National Academy Members. Number of faculty with active or emeritus status who have been elected to membership in the National Academy of Sciences, the National Academy of Engineering, or the Institute of Medicine. Data reported in *The Top American Research Universities*.

ACCESS AND AFFORDABILITY INDICATORS

Percent In-State Pell Grant Recipients.

Federal Pell Grants are awarded to low-income undergraduates based on their expected family contribution. Data as reported by campuses to the UMass President’s Office of in-state students with Pell Grants in the Financial Aid Template.

Percent Need Met for In-State Students

Awarded Need-Based Aid. The average percentage of demonstrated financial need that is met by the institution’s award of need-based financial aid to in-state undergraduate students. Data as reported to the UMass President’s Office in the Financial Aid Template.

Undergraduate Student Debt Load of

Graduating Class. Average debt load is based on the total debt borrowed by an Institution’s graduating class (bachelor’s, first-time only) divided by the number of students of that cohort that carried any amount of debt. It does not include those students with no debt load. It does not include students who have transferred in. The graduating class includes those that graduated between July 1 and June 30 of the reporting year. Data is from CDS.

DEFINITIONS AND SOURCES

ACCESS AND AFFORDABILITY INDICATORS

Percent Undergraduates from Massachusetts. Percentage of total undergraduate students who are 'In-State' or residents of Massachusetts based on tuition residency. For day students, tuition classification is used, whereas for CE students, actual residency at time of matriculation is used

Online Course Registrations. Course registrations for the academic year for online credit courses. Academic year includes Summer, Fall,

intersession, and Spring. These do not include hybrid courses, but fully online courses only offered via UMassOnline.

Annual Growth in Online Course Registrations. Percentage rate of growth in course registrations for the fiscal year for online credit courses. Fiscal year includes Summer, Fall, intersession, and Spring. These do not include hybrid courses, but fully online only offered via UMassOnline.

STUDENT SUCCESS AND SATISFACTION INDICATORS

Undergraduate Students of Color. Undergraduates who self-identify as either African American/Black, Hispanic/ Latino, Asian, Hawaiian/Pacific Islander, American Indian/Alaskan Native, and/or Two or more races. Hispanic students who list one or more additional groups will be coded as Hispanic. Cape Verdean students who identify solely as Cape Verdean will be coded as Black/African American. Included only for U.S. Citizens and Permanent Residents who report race and ethnicity divided by total undergraduate U.S. citizens and permanent residents who report race/ethnicity.

Percent Undergraduates who are First Generation in College. Percent of first-time, full-time undergraduates where neither parent has earned a bachelor's degree. The source of this data field is the Common Application. Prior years' percentages were from the CIRP survey and definition was neither parent has postsecondary degree.

Percent first-time, full-time Undergraduates with English as a Second Language. Percent of first-time, full-time undergraduates who speak another language at home. The source of this data field will be from the Common Application. Prior years' percentages were from the CIRP survey.

Percent Undergraduates who are International. Percentage of all undergraduates who are non-resident aliens, studying at the

university on an eligible visa types, and enrolled in credit courses. Does not include permanent residents, refugees, or US citizens.

Total Students who participated in a Study Abroad Program. Number of students who participated in a credit-bearing study abroad program outside of the U.S. over the most recent academic year, through UMass or other institution.

Freshmen One-Year Retention Rate. Percent of first-time, full-time, degree-seeking freshmen who entered UMass in a given Fall and were still enrolled at the institution in the following Fall. Peer data as reported to IPEDS.

Freshmen Four-Year Graduation Rate. Percent of first-time, full-time, degree-seeking freshmen who entered UMass in a given Fall term and graduated from the institution by the end of their fourth year.

Freshmen Six-Year Graduation Rate. Percent of first-time, full-time freshmen who entered UMass in a given Fall term and had graduated from the institution within six years. Peer data are based on median as reported to IPEDS.

Transfer (Full-Time) One-Year Retention Rate. Percent of full-time transfer students at any level who entered UMass in a given Fall and were still enrolled at, or graduated from the institution as of the following Fall.

DEFINITIONS AND SOURCES

STUDENT SUCCESS AND SATISFACTION INDICATORS

Transfer (Upper-Division) Four-Year

Graduation Rate. Percent of full-time upper division transfers (60+ credits) who entered UMass in a given fall term and had graduated from the institution within four years.

Student Achievement Measure. SAM tracks student movement across postsecondary institutions to provide a more complete picture of undergraduate student progress and completion within the higher education system. SAM is an alternative to the federal graduation rate, which is limited to tracking

the completion of first-time, full-time students at one institution.

Alumni Participation Rate. The percentage of undergraduate alumni of record who donated money to the college or university. Alumni of record are former full- or part-time students who received an undergraduate degree and for whom the college or university has a current address. The alumni giving rate is calculated by dividing the number of alumni donors during a given academic year by the number of alumni of record for that same year. Graduates who earned only a graduate degree are excluded.

SERVICE TO THE COMMONWEALTH INDICATORS

Degree Completions. The number of degrees (not including certificates) awarded in the previous academic year, by degree level. As reported to IPEDS.

Percent Alumni who live in

Massachusetts. Percentage of total alumni who currently reside in Massachusetts based on alumni records.

Enrollment in STEM Programs. Unduplicated count of students enrolled in Science, Technology, Engineering, & Math (STEM) programs. STEM programs are those fields of study defined in the National Science & Mathematics Access to Retain Talent (SMART) Grant with the exclusion of foreign languages. Enrollment count includes undergraduate, graduate and certificate students.

Degrees and Certificates Awarded in

STEM Fields. Number of undergraduate and graduate degrees awarded in STEM fields. STEM fields are those defined in the National Science & Mathematics Access to Retain Talent (SMART) Grant with the exclusion of foreign languages. Certificates data also included separately.

Degrees and Certificates Awarded in

Healthcare Fields. Number of undergraduate and graduate degrees and certificates awarded in Health Care fields. Healthcare designation as defined by Campus IR, and based on CIP classification. All of CIP 51, and specific 6-digit CIPs unique to each campus. Certificates data also included separately.

MTEL Science & Math Test-Takers. Total number of students who took the Massachusetts Tests for Educator Licensure (MTEL) subject tests in science and math fields.

FINANCIAL HEALTH INDICATORS

Endowment Assets and Annual Growth in

Endowment. The total value of the endowment (includes true and quasi-endowments) at the end of the fiscal year as reported in the UMass Annual BOT report, and the percent change from previous year. Comparative data are from IPEDS, financial statements, and the NACUBO survey.

Endowment per Annualized Student FTE.

Total endowment (includes true and quasi-endowments) per annualized FTE student, where FTE of peer institutions is standardized to UMass

formulae. Peer data are for the comparative peers from financial statements (current year) and IPEDS (prior years).

Private Funds Raised Annually. Private funds raised includes restricted and unrestricted revenues from individuals, foundations, corporations, and other organizations. Includes private grant revenues but not private contract revenues. Totals for each year include pledges made in that year as well as the value of in-kind contributions.

DEFINITIONS AND SOURCES

FINANCIAL HEALTH INDICATORS

Primary Reserve. Unrestricted net assets as a percentage of total operating expenditures (operating expenditures plus interest expense). Peer data are from published financial statements.

Debt Service to Operations. Debt service payments as a percentage of total operating expenditures (operating expenditures plus interest expense). Peer data are from published financial statements.

Deferred Maintenance per Gross Square Foot. Deferred Maintenance includes deferred and other maintenance dollars needed to maintain the current function of the campus, calculated by the “Sightlines” Return on Physical Assets methodology (ROPA sm) and shown per square foot of space. Adjusted each year for inflation.

PEER INSTITUTIONS FOR UMASS DARTMOUTH

Cleveland State University (OH)*

Idaho State University

Louisiana Tech University

Marshall University (WV)

SUNY at Binghamton (NY)*

The University of Montana*

The University of Texas at Dallas*

University of Arkansas at Little Rock

University of Idaho

University of New Orleans (LA)

University of North Dakota*

University of South Dakota

University of Southern Maine

Wichita State University (KS)*

**Aspirant Peers*

Please Note: Unless otherwise specified, all data are from UMass Dartmouth Office of Institutional Research and Assessment.



LOWELL

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HEADLINES

ACADEMIC QUALITY

UMass Lowell continues to distinguish itself for quality of student learning and excellence of academic programs. As set out in its *2020 Strategic Plan*, UMass Lowell has increased academic quality while simultaneously increasing enrollment.

Fall 2016 saw the introduction of the No Test Option for first-year students, and the quality of the incoming class has remained strong. The Fall 2018 cohort's average high school GPA was 3.60, and the average SAT score was 1233. UML's transfer students posted an average entering GPA of 3.21, steady with last year. Since 2010, undergraduate enrollment has increased by a third. The Honors College at UMass Lowell has over quadrupled in size since 2010, to 1,737 students in Fall 2018.

Externally sponsored research per faculty member is important to UMass Lowell both as a measure of faculty scholarship and as a measure of assisting innovation in the regional economy. In FY 2018, the average amount of R&D expenditures per tenure-stream faculty member was \$160,667. UMass Lowell's goal is to reach \$155,500 per tenure-stream faculty member by FY 2020.

UMass Lowell ranked 173rd in R&D Expenditures in FY 2017, down one spot from the prior year. When compared to public Carnegie class peers without a medical school, UMass Lowell decreased slightly by one spot from last year, ranked 27th.

UMass Lowell has placed a strategic emphasis on research partnerships that feature co-location with industry and government, with examples including the Raytheon-UMass Lowell Research Institute (RURI), the Printed Electronics Research Collaborative (PERC), and the Harnessing Emerging Research Opportunities to Empower Soldiers (HEROES) partnership with the U.S. Army Natick Soldier Research Development and Engineering Center (NSRDEC).

UMass Lowell's focus on strengthening research and building new academic programs has been assisted by the increased size of the faculty. The overall number of full-time faculty increased to 637; 34 of these were tenured or tenure-track new hires. Similarly, the overall faculty FTE increased to 795 in Fall 2018, up from 784 in Fall 2017. In keeping with faculty diversity goals in the *2020 Strategic Plan*, the proportion of faculty of color in Fall 2018 was 26%, remaining steady with last year.

ACCESS AND AFFORDABILITY

UMass Lowell strives to provide affordable, accessible, and experience-based education. By providing financial need assistance and increasing merit awards for new freshmen and grants for transfer students, UMass Lowell aims to maintain affordability and increase accessibility. In FY 2018, 78% of in-state undergraduate students applied for financial aid, and on average 88% of their need was met. Almost one in three (31%) UMass Lowell undergraduate students receive Federal Pell Grants, which are based on student need.

In alignment with the diversity goals set out in the *2020 Strategic Plan*, UMass Lowell has increased access to college for those populations that do not traditionally consider attending a postsecondary institution. Thirty-nine percent of UMass Lowell undergraduates self-identified as the first in their family to attend college. Thirty-five percent of undergraduates identify themselves as students of color.

STUDENT SUCCESS AND SATISFACTION

UMass Lowell is committed to providing a world-class student experience that promotes healthy, responsible, and civically engaged students who are prepared to lead in the 21st century.

Student success indicators held stable this year for our students. For those who entered directly out of high school, UMass Lowell's one-year retention

rate was 85%. The four-year graduation rate improved to 44%, and the six-year graduation rate jumped three percentage points, to 63%, representing the University's highest six-year graduation rate. For students who entered as transfers, 82% returned for their second year at UMass Lowell while the comparable graduation rate (four-year) for transfer students was 66%.

HEADLINES

STUDENT SUCCESS AND SATISFACTION

The recent opening of a \$95 million, centrally located student engagement center, a \$34 million redesign and renovation of the South Campus student center, continual improvements to dining facilities, the near doubling of the number of student clubs (220), and the ongoing transition to Division I sports have had a positive effect on student satisfaction. UMass Lowell also offers a growing number of Living Learning Communities (LLCs), which provide purposeful links between the

academic and co-curricular components of the student experience. In AY 2018-19, UMass Lowell will have a total of 36 LLCs: 12 LLCs for first-year students, 18 for upper-class and transfer students, and six open to all students. The *DifferenceMaker* program, which engages students in creative problem solving through entrepreneurship, has logged thousands of student interactions in recent years.

SERVICE TO THE COMMONWEALTH

UMass Lowell's *2020 Strategic Plan* calls for a comprehensive approach to economic and community engagement in its host city and throughout the Merrimack Valley, the Commonwealth, and beyond.

According to the UMass Donahue Institute, UMass Lowell's annual economic impact in FY 2016 was \$921.9 million. In recognition of this work, the Carnegie Foundation designated UMass Lowell as a "Community Engaged University," and since 2009 UMass Lowell has appeared each year on the President's Higher Education Community Service Honor Roll. More than 50 UMass Lowell courses each academic year have a service learning component, giving students the opportunity to contribute to the work of community organizations.

UMass Lowell's contribution to workforce development in the Commonwealth is also evidenced in the number of students it graduates

in STEM and Healthcare programs. Forty-three percent of total enrollment in Fall 2018 was in STEM fields. Likewise, over one-third of all degrees awarded at UMass Lowell in AY 2017-18 were in STEM fields. Ten percent of all degrees awarded were in health-care fields. UMass Lowell's Division of Online and Continuing Education (OCE) provides high-quality professional studies in innovative formats including campus-based classes, online education, and customized corporate training. Numerous OCE programs serve various economic sectors, partnering with companies to deliver customized education and training programs for their employees, often on-site. The result is continued significant growth in the number of online course enrollments at UMass Lowell. AY 2017-18 saw an increase of seven percent over the previous year, continuing an eight-year trend of growth in online course registrations. AY 2017-18 also saw the largest number of online course registrations to date, at 30,932.

FINANCIAL HEALTH

New efforts to grow revenues and control expenditures are implemented each year. Growth in revenues will further contribute to UMass Lowell's primary reserve and improving financial health. The endowment increased 8% this year, to \$91.7 million. This affected the endowment per annualized FTE metric, which increased in turn to \$6,256. Private funds raised annually decreased from last year, down to \$15.6M. UMass Lowell's primary reserve declined to 16.2%.

UMass Lowell's alumni giving rate this year is 10.2%, more than twice the national benchmark for public universities. Forty-five percent of UMass Lowell faculty and staff give to the University, almost two and a half times the national average.

The University's first-ever comprehensive fundraising campaign, *Our Legacy, Our Place: The Campaign for UMass Lowell* is well ahead of its goal, having already raised more than \$122 million of the 2020 goal of \$150 million.

n.b. All peer comparisons throughout the 2019 "Annual Indicators" document were generated using UMass Lowell's peers as of 2012. These are listed at the end of the "Definitions" section.

AT-A-GLANCE

ACADEMIC QUALITY

• Average HS GPA of Freshmen	3.60	• Total R&D Expenditures per Tenure System Faculty	\$160,591
• Average SAT Scores of Freshmen		• Patent Applications	33
<i>Arithmetic Mean</i>	1233	• License Income	\$458,000
<i>25th – 75th Percentile</i>	1150-1300	• Percent Tenured/Tenure-Track Faculty FTE	55%
• Average GPA of Entering Transfer Students	3.21	• New Tenured/Tenure-Track Faculty Hired	34
• Student Satisfaction with Educational Experience	81%	As Percent of Total T/TT Faculty	1
• Student-Faculty Ratio	17:1	• <i>Change in Tenured/Tenure-Track Faculty</i>	2%
• Technology-Enhanced Classrooms	197	• Change in Faculty FTE	1%
• No. of Doctoral Degrees Awarded	122	• Full-Time Instructional Faculty	
• No. of Research Doctoral Degrees Awarded	84	Percent Faculty-of-Color	26%
• No. of Postdoctoral Appointees	30	<i>Percent Women Faculty</i>	45%
• Total R&D Expenditures	\$72M	• <i>Faculty Awards</i>	3
• Total R&D Expenditures Ranking	173	• National Academy Members	0
• Total R&D Expenditures Ranking among Carnegie Peers, US Publics, Non-Medical	27		

ACCESS AND AFFORDABILITY

• Percent In-State Pell Grant Recipients	31%	• Percent Undergraduates from Students from MA	88%
• Percent of Need Met for In-State Students Awarded Need-Based Aid	88%	• Online Course Registrations	30,932
• Average Debt of Students (UG Graduating Class)	\$32,178	• Annual Growth in Online Course Registrations	7%
• Percent Graduating Class with Debt (UG)	77%		

AT-A-GLANCE

STUDENT SUCCESS AND SATISFACTION

• Percent Undergraduates who are Students of Color	35%	• Freshmen Four-Year Graduation Rate	44%
• Percent Undergraduates who are First Generation in College	39%	• Freshmen Six-Year Graduation Rate	63%
• Percent Undergraduates with English as a Second Language	NA	• Transfer (Full-time) One-Year Retention Rate	82%
• Percent Undergraduates who are International	4%	• Transfer (Upper Division) Four-Year Graduation Rate	66%
• Total Students who Participated in a Study Abroad Program	228	• Alumni Participation Rate	10.2%
• Freshmen One-Year Retention Rate	85%		

SERVICE TO THE COMMONWEALTH

• Degree Completions	4,022	• Degrees Awarded in STEM Fields	1,629 (40%)
<i>Bachelor's</i>	2798	<i>Undergraduate</i>	1,124 (40%)
<i>Master's</i>	1102	<i>Graduate</i>	505 (41%)
<i>Doctorates</i>	122	• Certificates Awarded in STEM Fields	184 (34%)
• Percent Alumni who Remain in MA	61%	• <i>Degrees Awarded in Healthcare Fields</i>	414 (10%)
• Enrollment in STEM Programs	7,244 (43%)	<i>Undergraduate</i>	274 (10%)
<i>Undergraduate</i>	5,917 (45%)	<i>Graduate</i>	140 (11%)
<i>Graduate</i>	1,327 (37%)	• MTEL Science and Math Test-Takers	6
<i>Certificate</i>	130		

FINANCIAL HEALTH

• Total Endowment	\$91.7M	• Primary Reserve	16%
• Annual Growth in Endowment	8.1%	• Debt Ratio	7%
• Endowment per Annualized Student FTE	\$6,256	• Deferred Maintenance per GSF	\$220
• Private Funds Raised Annually	\$15.6M		

ACADEMIC QUALITY

AVERAGE HIGH-SCHOOL GPA OF FIRST-TIME FRESHMEN

3.60

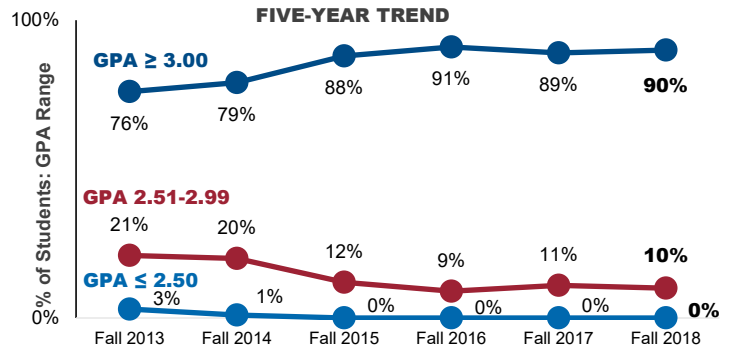
Average HS GPA in Fall 2018

▲ **0.05**

One-year nominal change (vs. Fall 2017)

▲ **0.24**

Five-year nominal change (vs. Fall 2013)



SAT SCORES OF FRESHMEN

1300

SAT Scores of Freshmen 75th Percentile in Fall 2018

● **0**

One-year nominal change (vs. Fall 2017)

3

75th Percentile Rank

1150

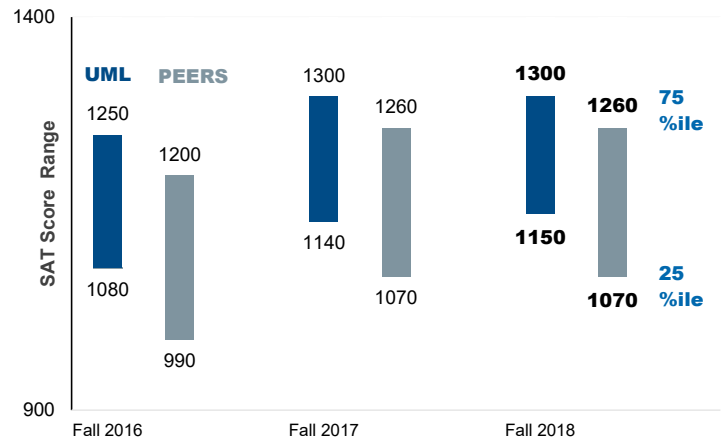
SAT Scores of Freshmen 25th Percentile in Fall 2018

▲ **10**

One-year nominal change (vs. Fall 2017)

2

25th Percentile Rank

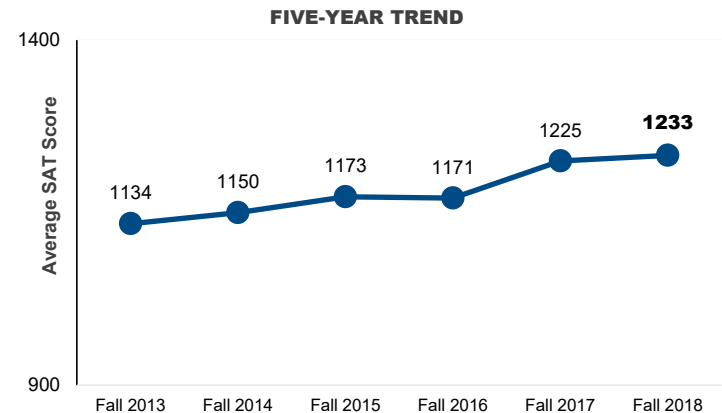


1233

Average SAT Scores of Freshmen in Fall 2018

▲ **8**

One-year nominal change (vs. Fall 2017)



ACADEMIC QUALITY

AVERAGE GPA OF ENTERING TRANSFER STUDENTS

3.21

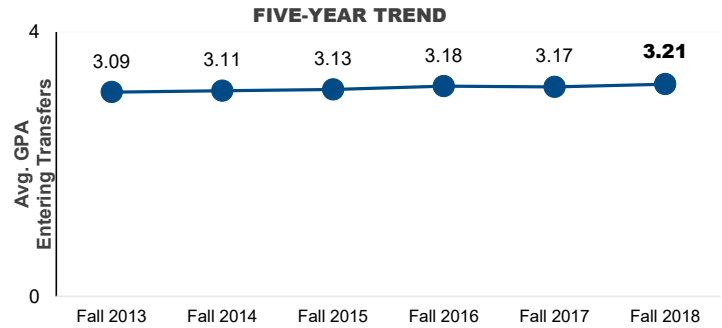
Average HS GPA in Fall 2018

▲ **0.04**

One-year nominal change (vs. Fall 2017)

▲ **0.12**

Five-year nominal change (vs. Fall 2013)



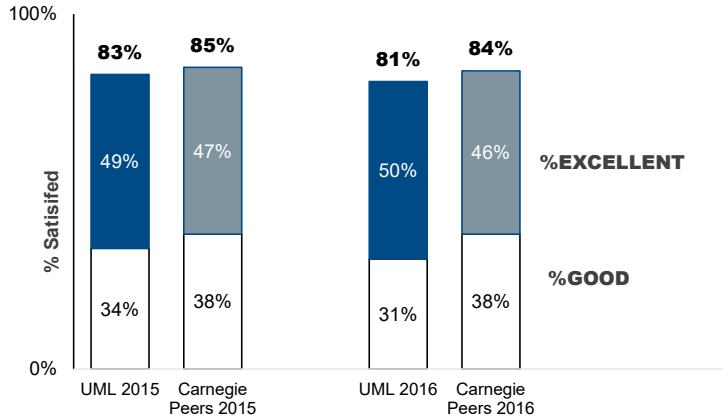
STUDENT SATISFACTION WITH EDUCATIONAL EXPERIENCE

81%

Student Satisfaction as Good or Excellent in UML 2016

▲ **2**

One-year % point change (vs. UML 2015)



STUDENT-FACULTY RATIO

17:1

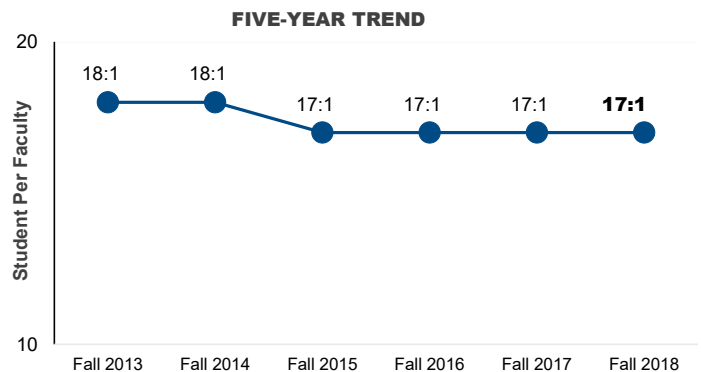
Student-Faculty Ratio in Fall 2018

● **0**

One-year nominal change (vs. Fall 2017)

▼ **1**

Five-year nominal change (vs. Fall 2013)



ACADEMIC QUALITY

TECHNOLOGY-ENHANCED CLASSROOMS

197

Total Technology Enhanced Classrooms in 2017-18

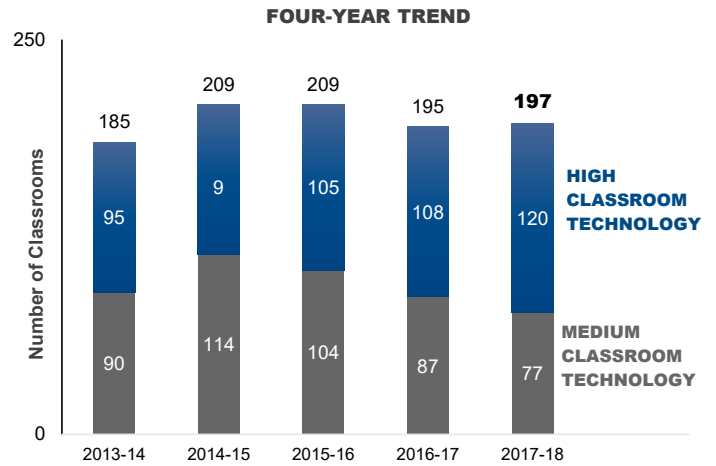
▲ **1%**

One-year % change (vs. 2016-17)

▲ **6%**

Four-year % change (vs. 2013-14)

* UML does not presently have Very High or Basic level classrooms.



DOCTORAL DEGREES AWARDED

122

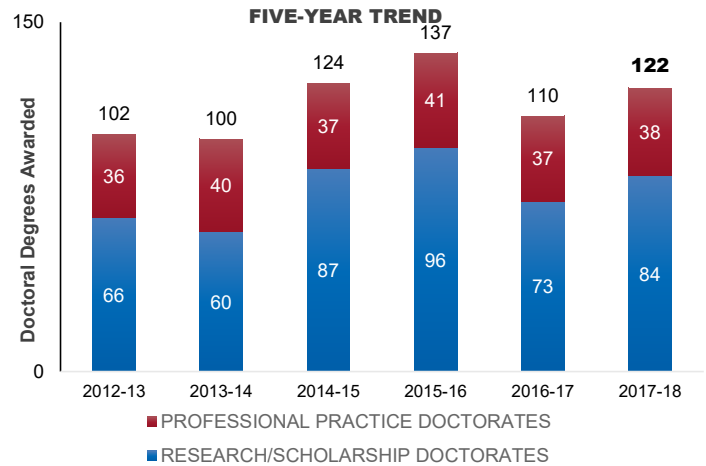
Doctoral Degrees Awarded in 2017-18

▲ **12**

One-year nominal change (vs. 2016-17)

▲ **20**

Five-year nominal change (vs. 2012-13)



84

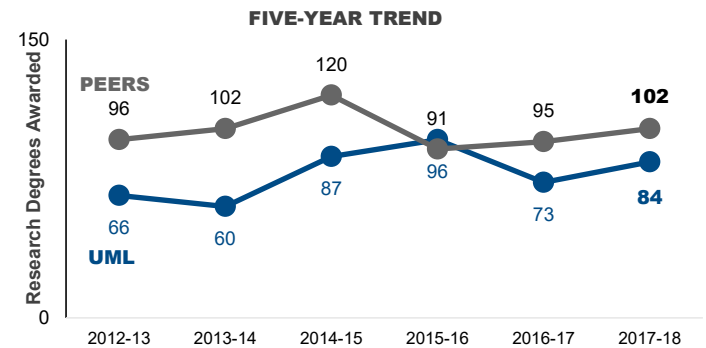
Research Degrees Awarded in 2017-18

▲ **11**

One-year nominal change (vs. 2016-17)

▲ **18**

Five-year nominal change (vs. 2012-13)



ACADEMIC QUALITY

POSTDOCTORAL APPOINTEES

30

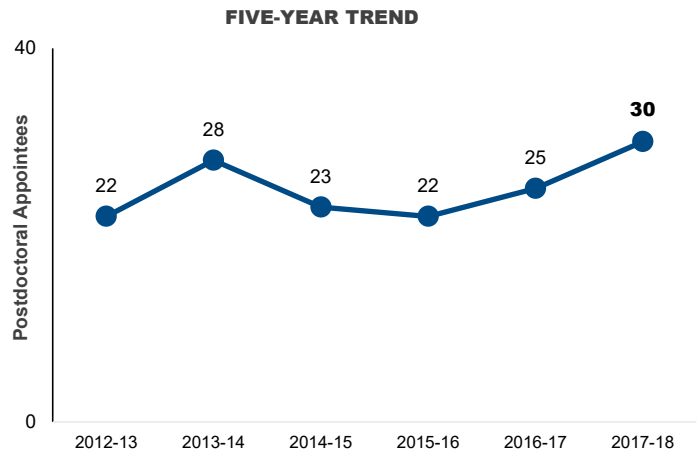
Postdoctoral Appointees in 2017-18

▲ **5**

One-year nominal change (vs. 2016-17)

▲ **8**

Five-year nominal change (vs. 2012-13)



TOTAL R&D EXPENDITURES

\$72.3

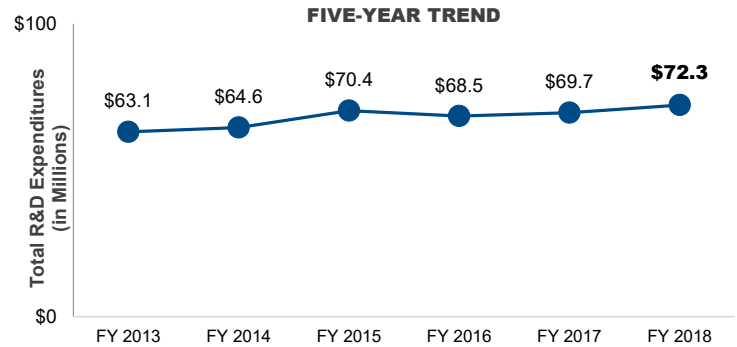
Million in FY 2018

▲ **4%**

One-year % change (vs. FY 2017)

▲ **14%**

Five-year % change (vs. FY 2013)



TOTAL R&D EXPENDITURES RANKINGS

173

Total R&D Expenditures Overall Rankings in FY 2017

▼ **1**

One-year nominal change (vs. FY 2016)

▲ **11**

Five-year nominal change (vs. FY 2012)

27

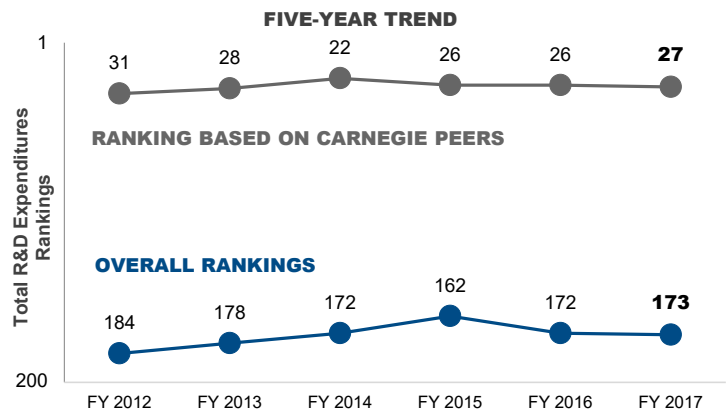
Rankings based on Carnegie Peers in FY 2017

▼ **1**

One-year nominal change (vs. FY 2016)

▲ **4**

Five-year nominal change (vs. FY 2012)



Overall Ranking Source: National Science Foundation Ranking by Total R&D Expenditures.

Ranking based on Carnegie Peers is further standardized by US Publics and Non-Medical Schools.

ACADEMIC QUALITY

TOTAL R&D EXPENDITURES PER TENURED SYSTEM FACULTY

\$161k

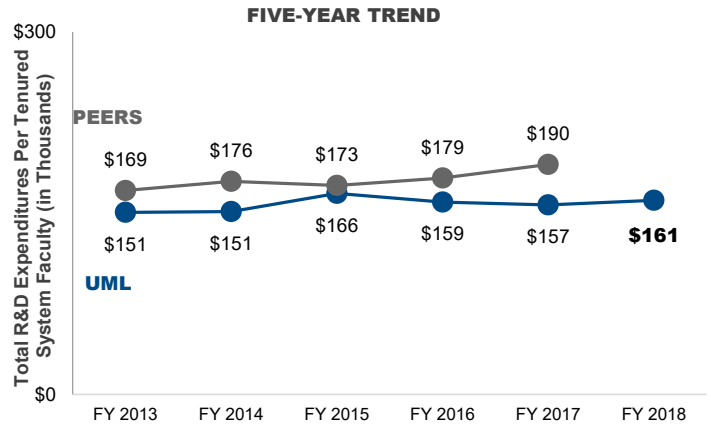
Total R&D Expenditure
Per Tenured
System Faculty
in FY 2018

▲ **2%**

One-year
% change
(vs. FY 2017)

▲ **7%**

Five-year
% change
(vs. FY 2013)



* Peer data for FY 2017 is currently not available.

NUMBER OF PATENT APPLICATIONS

33

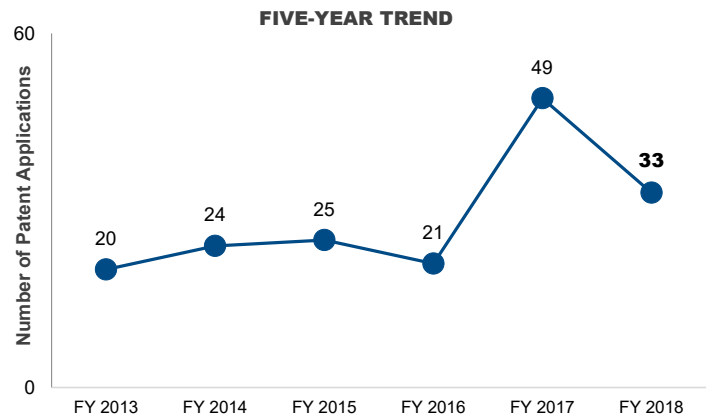
Patent
Applications
in FY 2018

▼ **16**

One-year
nominal change
(vs. FY 2017)

▲ **13**

Five-year
nominal change
(vs. FY 2013)



LICENSE INCOME

\$458k

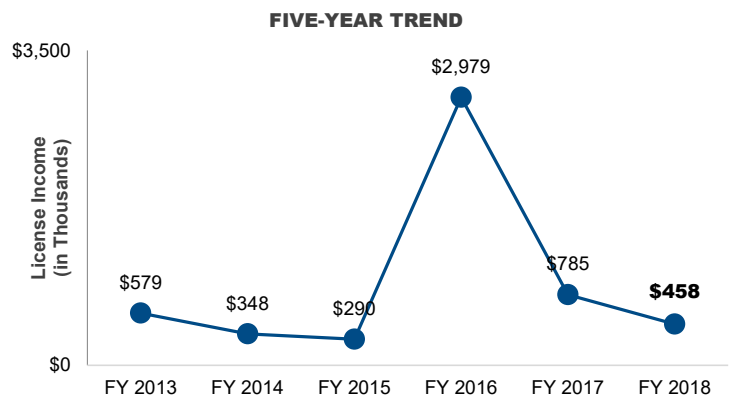
License Income
in FY 2018

▼ **42%**

One-year
% change
(vs. FY 2017)

▼ **21%**

Five-year
% change
(vs. FY 2013)



ACADEMIC QUALITY

PERCENT TENURED/TENURE-TRACK FACULTY FTE

55%

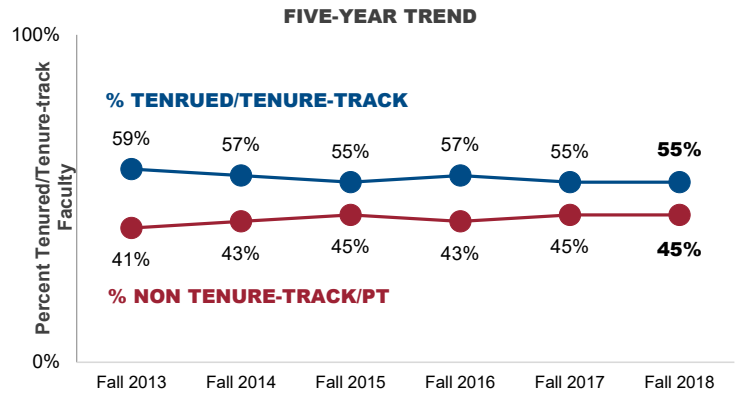
Percent Tenured/
Tenure-track Faculty
in Fall 2018

0

One-year
% point change
(vs. Fall 2017)

4

Five-year
% point change
(vs. Fall 2013)



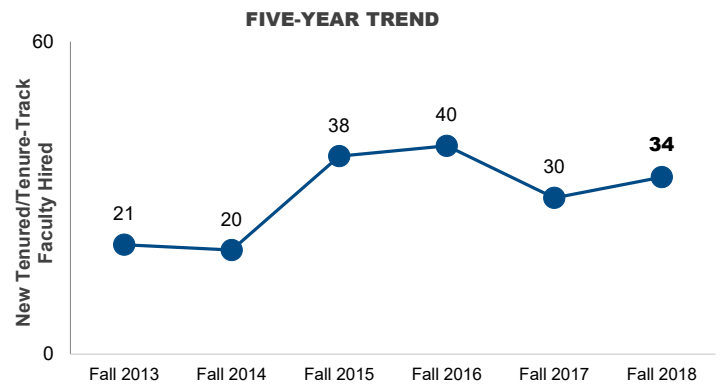
NEW TENURED/TENURE-TRACK FACULTY HIRED

34

New Tenured/
Tenure-Track
Faculty Hired
in Fall 2018

4

One-year
nominal change
(vs. Fall 2017)



Data for "New Hires" is based on IPEDS definitions from 2016

NEW TENURED/TENURE-TRACK FACULTY HIRED AS PERCENT OF ALL TENURE-TRACK FACULTY

8%

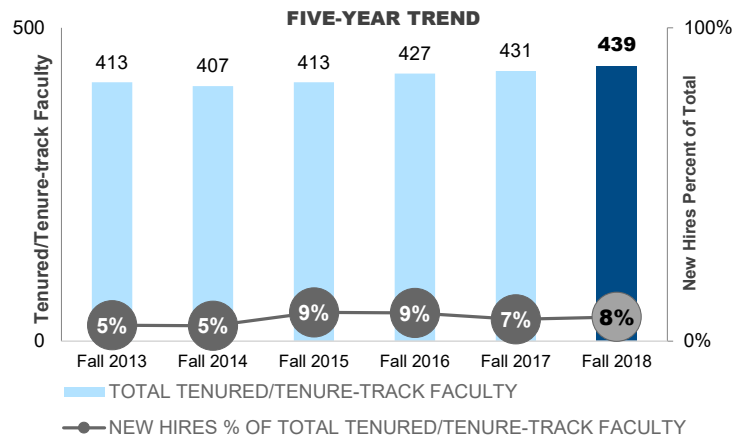
Percent New Tenured/
Tenure-Track Faculty
Hired in Fall 2018

1

One-year
% point change
(vs. Fall 2017)

3

Five-year
% point change
(vs. Fall 2013)



Data for "New Hires" is based on IPEDS definitions from 2016

ACADEMIC QUALITY

TENURED/TENURE-TRACK FACULTY

439

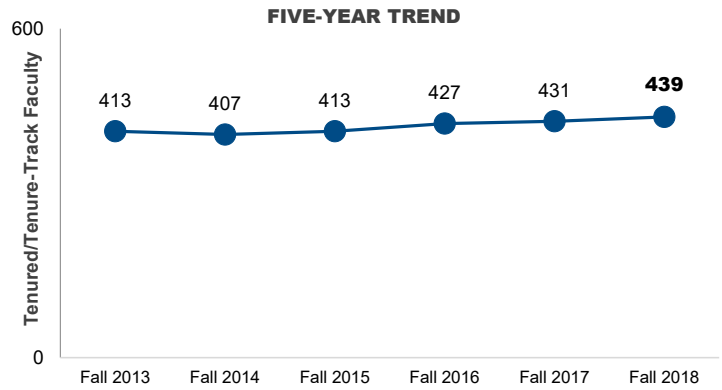
Total Tenured/
Tenure-track Faculty
in Fall 2018

▲ **2%**

One-year
% change
(vs. Fall 2017)

▲ **6%**

Five-year
% change
(vs. Fall 2013)



FACULTY FTE

795

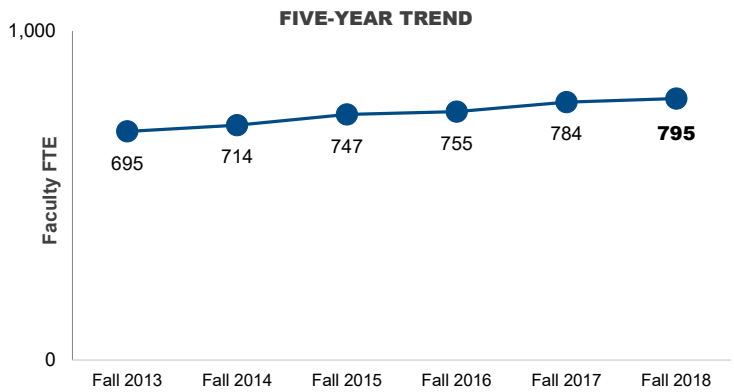
Faculty FTE
in Fall 2018

▲ **1%**

One-year
% change
(vs. Fall 2017)

▲ **14%**

Five-year
% change
(vs. Fall 2013)



FACULTY-OF-COLOR

165

Faculty Of Color
in Fall 2018

▲ **5**

One-year
nominal change
(vs. Fall 2017)

▲ **52**

Five-year
nominal change
(vs. Fall 2013)

26%

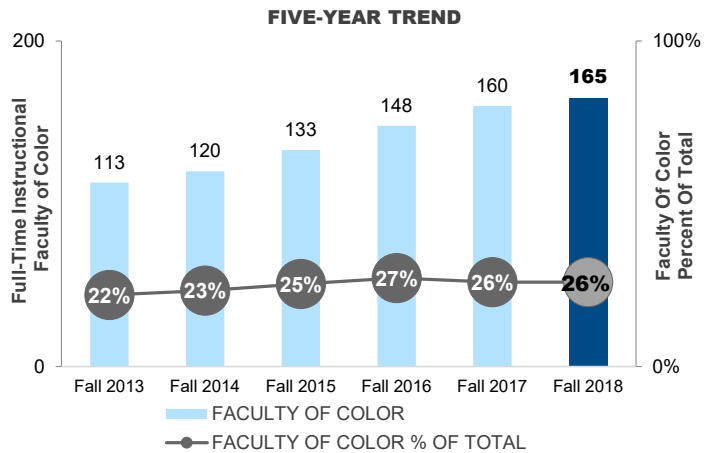
Percent of
Faculty Of Color
in Fall 2018

● **0**

One-year
% point
(vs. Fall 2017)

▲ **4**

Five-year
% point
(vs. Fall 2013)



Faculty-of-Color based on US Citizens/Permanent Residents reporting Race/Ethnicity according to new IPEDS definitions.

ACADEMIC QUALITY

WOMEN FACULTY

286

Women Faculty in Fall 2018

▲ **15**

One-year nominal change (vs. Fall 2017)

▲ **61**

Five-year nominal change (vs. Fall 2013)

45%

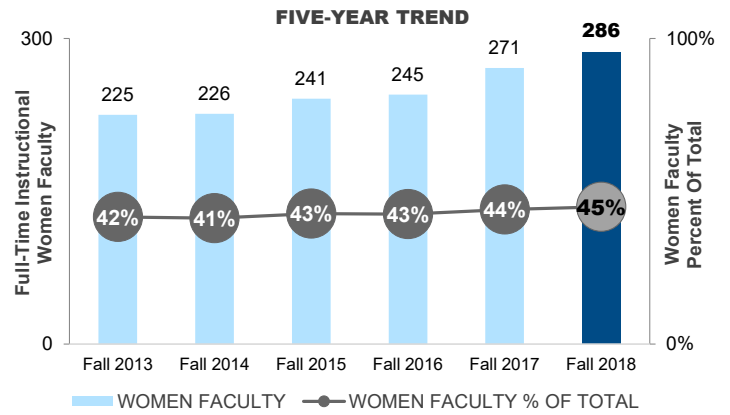
Percent of Faculty Of Color in Fall 2018

▲ **1**

One-year % point (vs. Fall 2017)

▲ **3**

Five-year % point (vs. Fall 2013)



FACULTY AWARDS

3

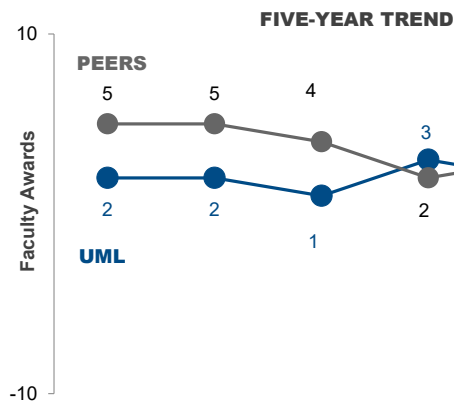
Faculty Awards in 2017

▲ **1**

One-year nominal change (vs. 2016)

▲ **1**

Five-year nominal change (vs. 2012)



Source : The Top American Research Universities

NATIONAL ACADEMY MEMBERS

0

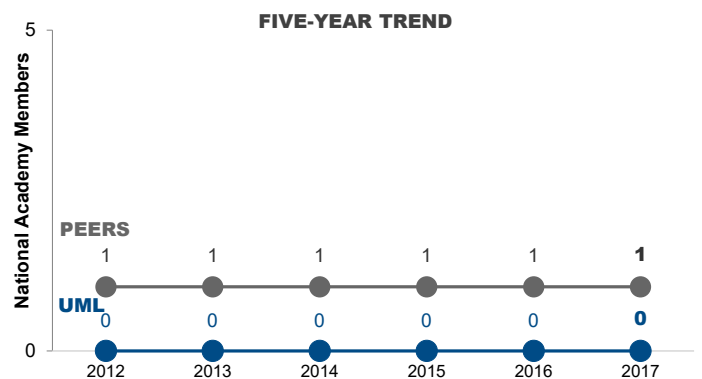
National Academy Members in 2017

● **0**

One-year nominal change (vs. 2016)

● **0**

Five-year nominal change (vs. 2012)



Source : The Top American Research Universities

ACCESS AND AFFORDABILITY

PERCENT IN-STATE PELL GRANT RECIPIENTS

31%

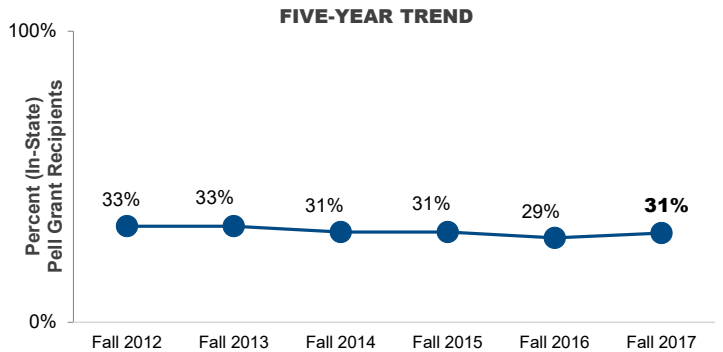
Percent (In-State) Pell Grant Recipients in Fall 2017

▲ **2**

One-year % point change (vs. Fall 2016)

▼ **2**

Five-year % point change (vs. Fall 2012)



PERCENT NEED MET FOR IN-STATE STUDENTS AWARDED NEED-BASED AID

88%

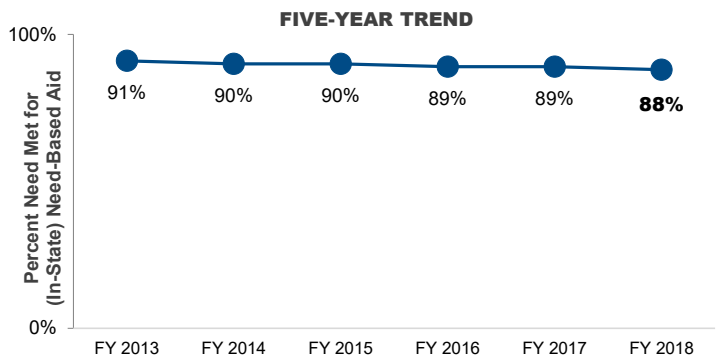
Percent Met for (In-state) Need-Based Aid in FY 2018

▼ **1**

One-year % point change (vs. FY 2017)

▼ **3**

Five-year % point change (vs. FY 2013)



UNDERGRADUATE STUDENT DEBT LOAD OF GRADUATING CLASS

\$32k

Average Debt Load in 2018

▼ **2%**

One-year % change (vs. 2017)

▲ **13%**

Five-year % change (vs. 2013)

77%

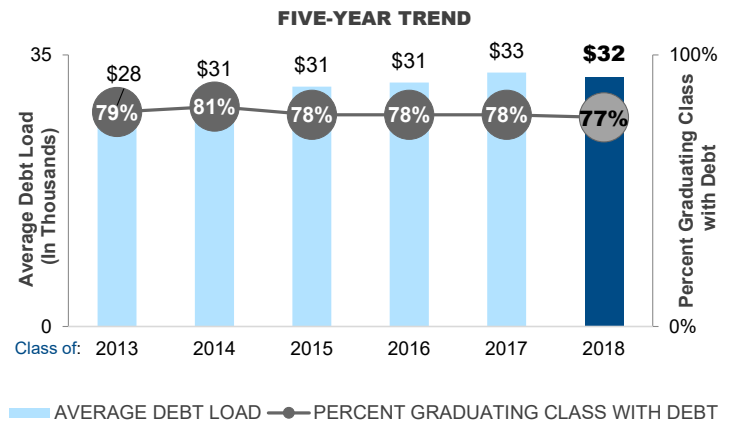
Percent Graduating Class with Debt in 2018

▼ **1**

One-year % point change (vs. 2017)

▼ **2**

Five-year % point change (vs. 2013)



ACCESS AND AFFORDABILITY

PERCENT UNDERGRADUATES FROM MASSACHUSETTS

11,849

Undergraduates from Massachusetts in Fall 2018

▲ **1%**

One-year % change (vs. Fall 2017)

▲ **13%**

Five-year % change (vs. Fall 2013)

88%

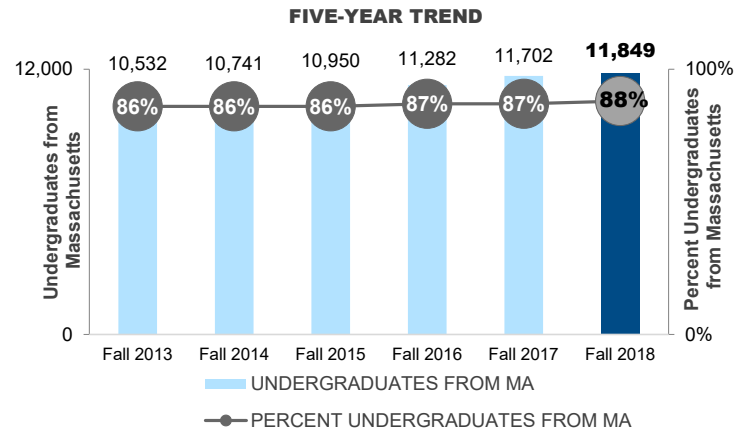
% Undergraduates from Massachusetts in Fall 2018

▲ **1**

One-year % point change (vs. Fall 2017)

▲ **2**

Five-year % point change (vs. Fall 2013)



ONLINE COURSE REGISTRATIONS

30,932

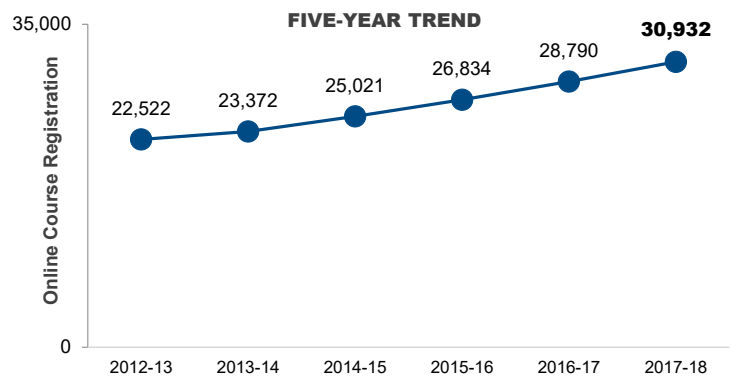
Online Course Registrations in 2017-18

▲ **7%**

One-year % change (vs. 2016-17)

▲ **37%**

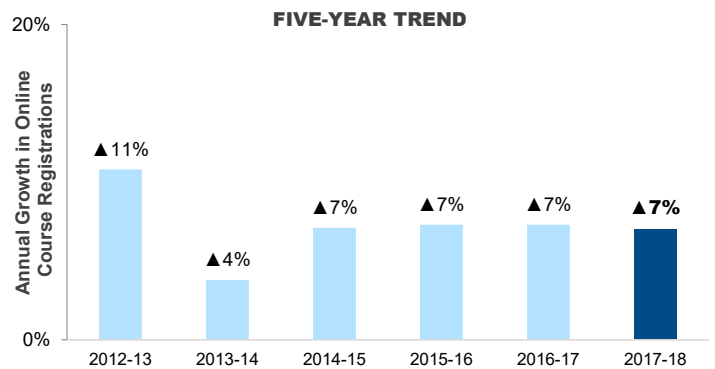
Five-year % change (vs. 2012-13)



ANNUAL GROWTH IN ONLINE COURSE REGISTRATIONS

7%

Annual Growth Online Course Registrations in 2017-18



STUDENT SUCCESS AND SATISFACTION

UNDERGRADUATE STUDENTS OF COLOR

4,501

Undergraduates
Students of Color
in Fall 2018

▲ **6%**

One-year
% change
(vs. Fall 2017)

▲ **39%**

Five-year
% change
(vs. Fall 2013)

35%

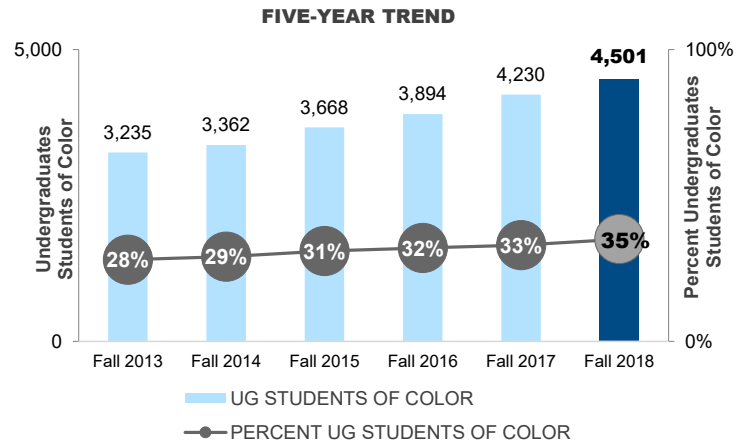
% Undergraduates
Students of Color
in Fall 2018

▲ **2**

One-year
% point change
(vs. Fall 2017)

▲ **7**

Five-year
% point change
(vs. Fall 2013)



PERCENT UNDERGRADUATES FIRST-GENERATION IN COLLEGE

39%

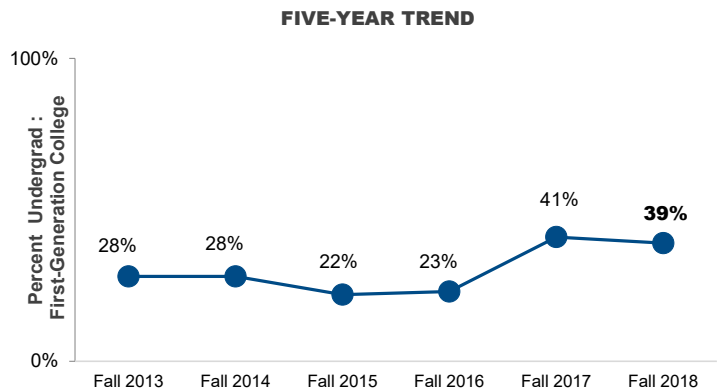
Percent Undergraduates
who are First-Generation
College
in Fall 2018

▼ **2**

One-year
% point change
(vs. Fall 2017)

▲ **11**

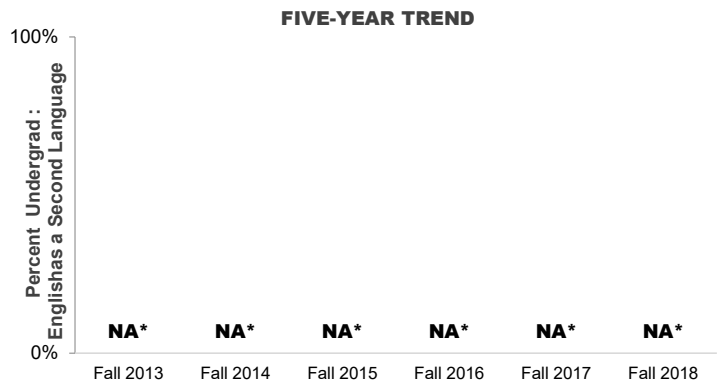
Five-year
% point change
(vs. Fall 2013)



PERCENT FIRST-TIME, FULL-TIME UNDERGRADUATES WITH ENGLISH AS A SECOND LANGUAGE

NA*

Percent Undergraduates
Speak English as a
Second Language
in Fall 2018



*The data source from Fall 2018 updated to Common Application responses.

STUDENT SUCCESS AND SATISFACTION

PERCENT UNDERGRADUATES WHO ARE INTERNATIONAL

561

International UG Enrollment in Fall 2018

▼ **11%**

One-year % change (vs. Fall 2017)

▲ **41%**

Five-year % change (vs. Fall 2013)

4%

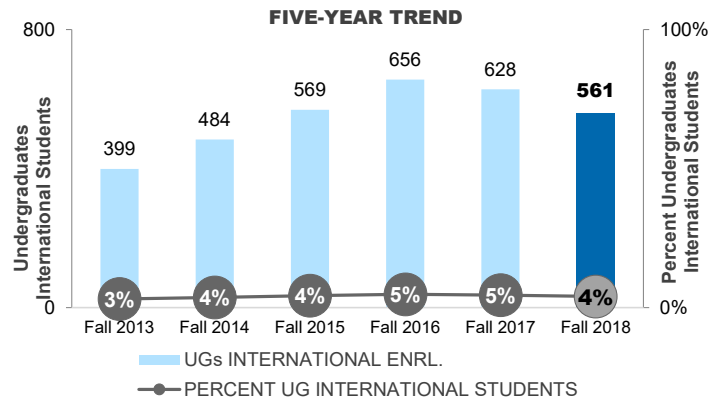
% International UG Enrollment in Fall 2018

▼ **1**

One-year % point change (vs. Fall 2017)

▲ **1**

Five-year % point change (vs. Fall 2013)



TOTAL STUDENTS WHO PARTICIPATED IN A STUDY ABROAD PROGRAM

228

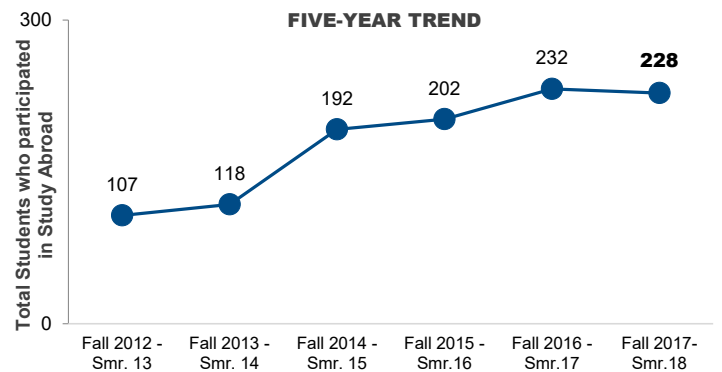
Students who participated in Study Abroad in Fall 2017-Smr.18

▼ **4**

One-year nominal change vs. Fall 2016 -Smr.17

▲ **121**

Five-year nominal change vs. Fall 2012 -Smr. 13



FRESHMEN ONE-YEAR RETENTION RATE

85%

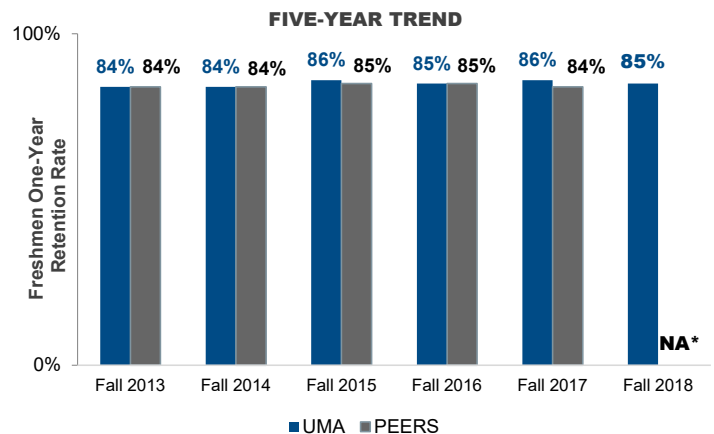
Freshmen One-Year Retention Rate in Fall 2018

▼ **1**

One-year % point change in Fall 2017

▲ **1**

Five-year point in Fall 2013



* Peer data for Fall 2018 not available for reporting purposes.

STUDENT SUCCESS AND SATISFACTION

FRESHMEN FOUR-YEAR GRADUATION RATES

44%

Freshmen Four-Year Graduation Rates in 2018

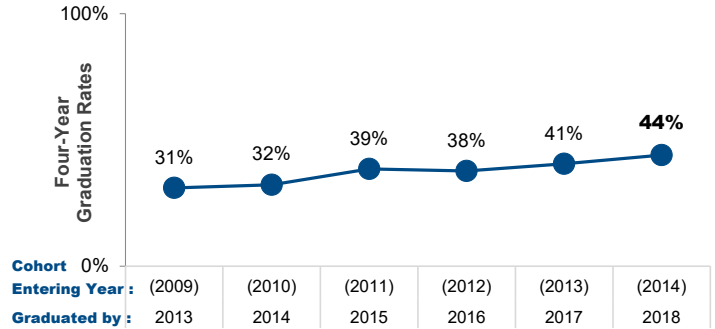
▲ 3

One-year % point change (vs. 2017)

▲ 13

Five-year % point change (vs. 2013)

FIVE-YEAR TREND



FRESHMEN SIX-YEAR GRADUATION RATE

63%

Freshmen Six-Year Graduation Rates in Fall 2018

▲ 3

One-year % point change (vs. Fall 2017)

▲ 9

Five-year % point change (vs. Fall 2013)

67%

Peers Freshmen Six-Year Graduation Rates in Fall 2018

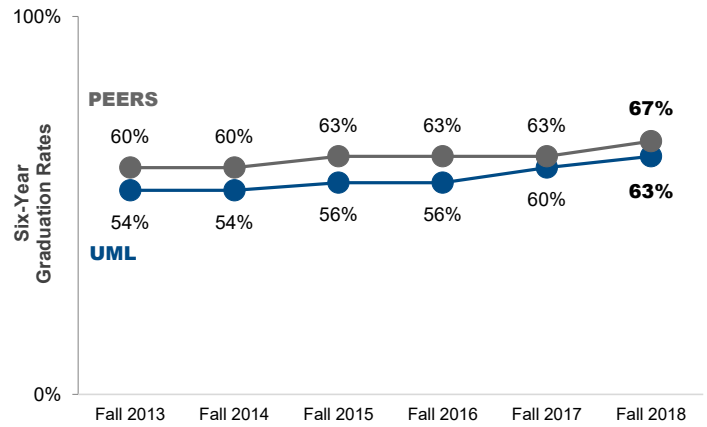
▲ 4

One-year % point change (vs. Fall 2017)

▲ 7

Five-year % point change (vs. Fall 2013)

FIVE-YEAR TREND



TRANSFER (FULL-TIME) ONE-YEAR RETENTION RATE

82%

Transfers (Full-time) One-Year Retention Rate in Fall 2018

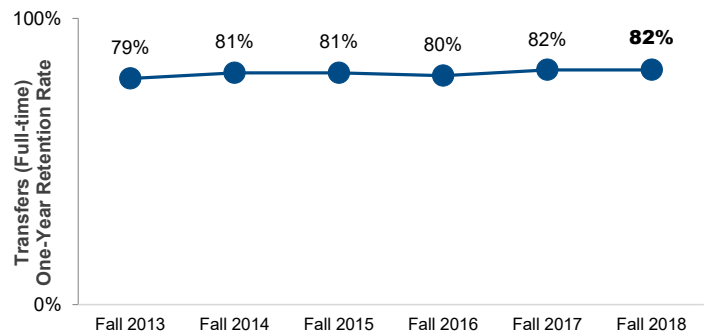
● 0

One-year % point change (vs. Fall 2017)

▲ 3

Five-year % point change (vs. Fall 2013)

FIVE-YEAR TREND



STUDENT SUCCESS AND SATISFACTION

TRANSFER (UPPER DIVISION) FOUR-YEAR GRADUATION RATE

66%

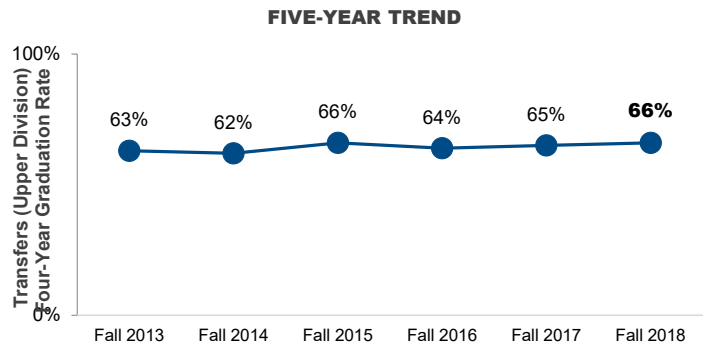
Transfers (Upper Division) Four-Year Graduation Rates in Fall 2018

▲ 1

One-year % point change (vs. Fall 2017)

▲ 3

Five-year % point change (vs. Fall 2013)



STUDENT ACHIEVEMENT MEASURE

Cohort starting in : 2012-13

42%

Bachelor's Degree within 4-years from any institution

66%

Bachelor's Degree within 5-years from any institution

72%

Bachelor's Degree within 6-years from any institution

37%

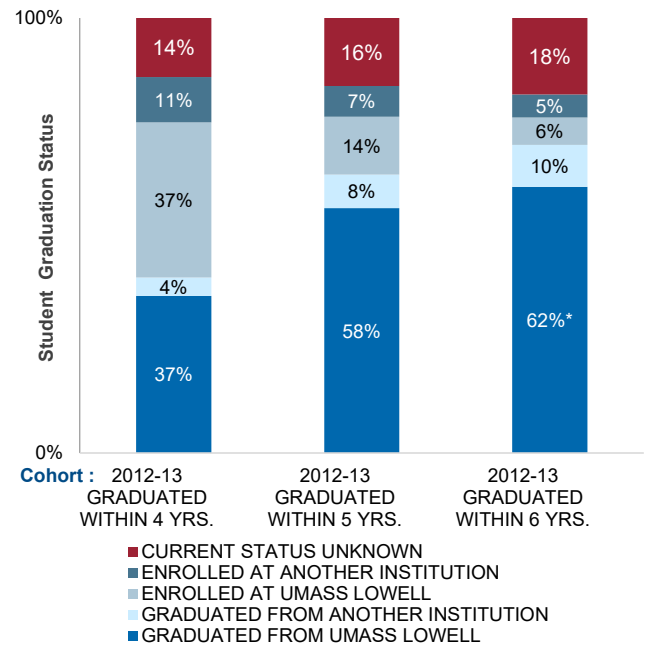
Bachelor's Degree within 4-years from UMass Lowell

58%

Bachelor's Degree within 5-years from UMass Lowell

62%

Bachelor's Degree within 6-years from UMass Lowell



* Five UML graduates were not found by NSC; this rate is not reflective of the true graduation rate (62% vs 63%)

Source: Student Achievement Measure (SAM)

ALUMNI PARTICIPATION RATE

10%

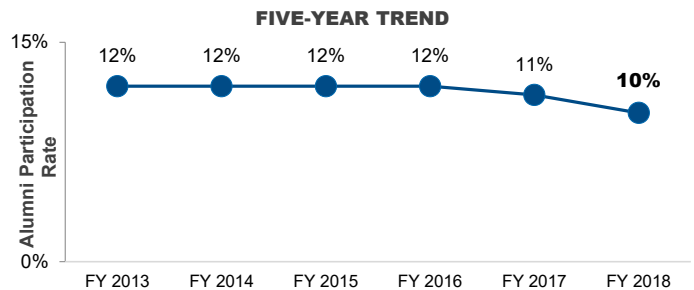
Alumni Participation Rate in FY 2018

▼ 1

One-year % point change (vs. FY 2017)

▼ 2

Five-year % point change (vs. FY 2013)



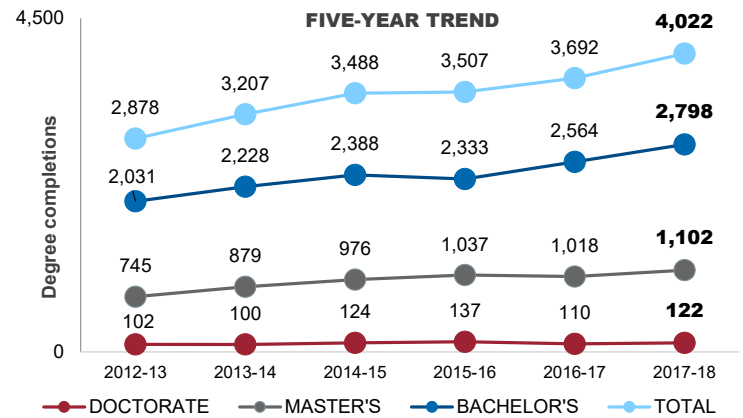
SERVICE TO THE COMMONWEALTH

DEGREE COMPLETIONS

4,022
Total degree completions 2017-18

▲ 9%
One-year % change in total degree completions (vs. 2016-17)

▲ 40%
Five-year % change in total degree completions (vs. 2012-13)

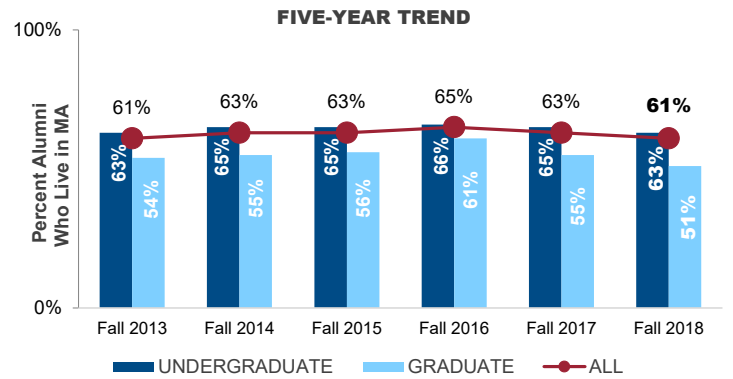


PERCENT ALUMNI WHO LIVE IN MASSACHUSETTS

61%
Of all UMass Alumni live in the Commonwealth in Fall 2018

▼ 2
One-year % point change (vs. Fall 2017)

• 0
Five-year % point change (vs. Fall 2013)



ENROLLMENT IN STEM PROGRAMS

130
Cert. enrollment in STEM fields in Fall 2018

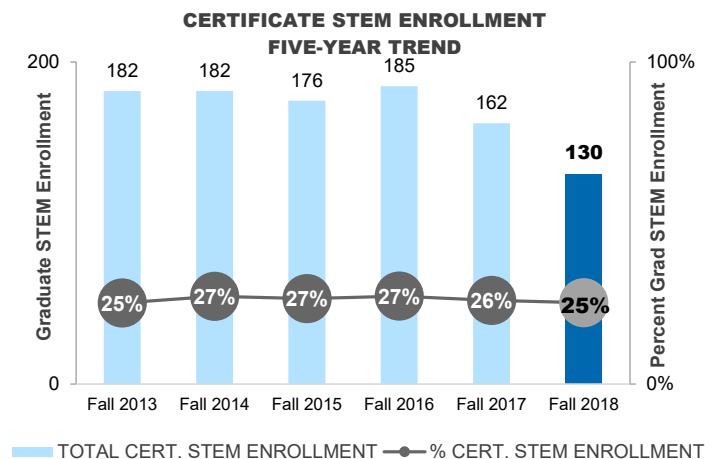
▼ 20%
One-year % change (vs. Fall 2017)

▼ 18%
Five-year % change (vs. Fall 2013)

25%
Percent of total Cert. enrollment in STEM fields in Fall 2018

▼ 1
One-year % point change (vs. Fall 2017)

• 0
Five-year % point change (vs. Fall 2013)



SERVICE TO THE COMMONWEALTH

ENROLLMENT IN STEM PROGRAMS

5,917

UG enrollment in STEM fields in Fall 2018

▲ **1%**

One-year % change (vs. Fall 2017)

▲ **29%**

Five-year % change (vs. Fall 2013)

45%

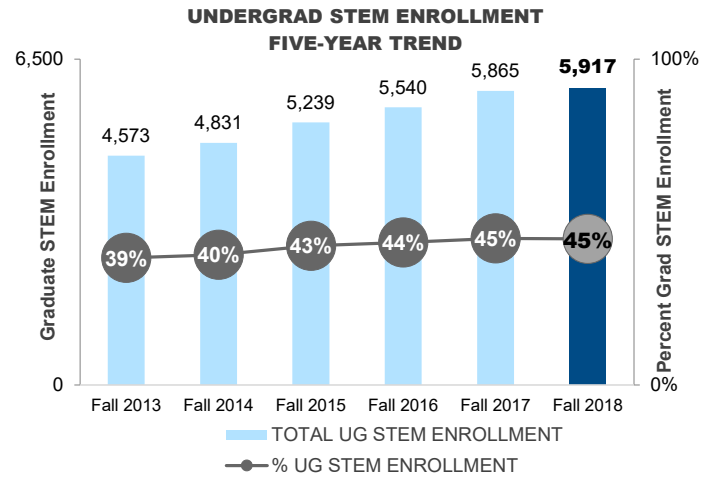
Percent of total UG enrollment in STEM fields in Fall 2018

● **0**

One-year % point change (vs. Fall 2017)

▲ **6**

Five-year % point change (vs. Fall 2013)



1,327

Grad enrollment in STEM fields in Fall 2018

▼ **2%**

One-year % change (vs. Fall 2017)

▲ **1%**

Five-year % change (vs. Fall 2013)

37%

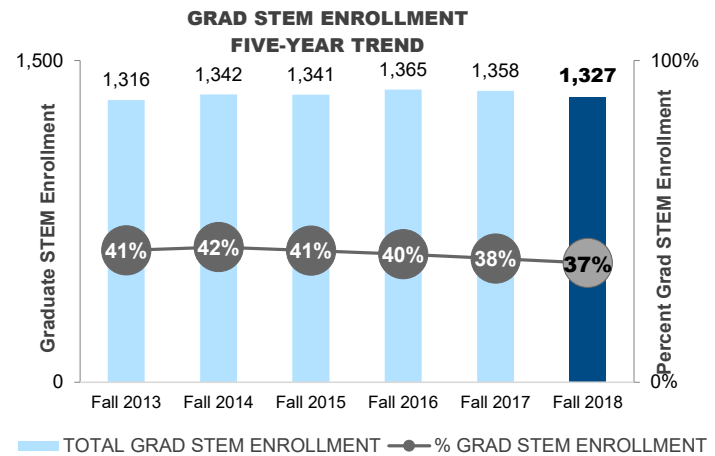
Percent of total Grad enrollment in STEM fields in Fall 2018

▼ **1**

One-year % point change (vs. Fall 2017)

▼ **4**

Five-year % point change (vs. Fall 2013)



7,244

Total enrollment in STEM fields in Fall 2018

● **0%**

One-year % change (vs. Fall 2017)

▲ **23%**

Five-year % change (vs. Fall 2013)

43%

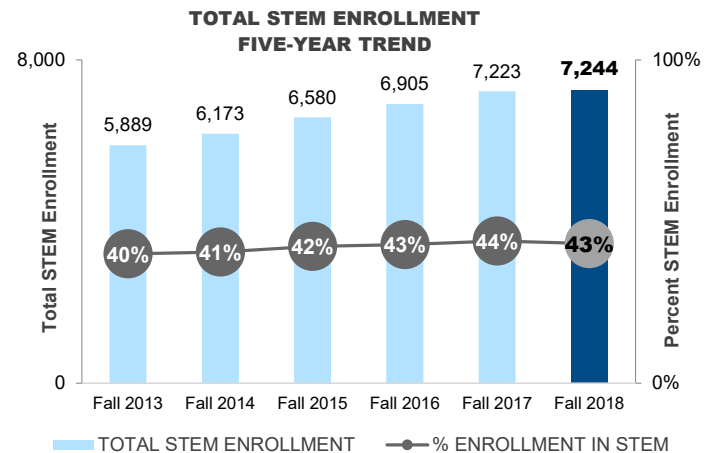
Percent of total enrollment in STEM fields in Fall 2018

▼ **1**

One-year % point change (vs. Fall 2017)

▲ **3**

Five-year % point change (vs. Fall 2013)



SERVICE TO THE COMMONWEALTH

DEGREES AWARDED IN STEM FIELDS

1,124

UG degrees awarded in STEM fields in 2017-18

▲ **11%**

One-year % change (vs. 2016-17)

▲ **60%**

Five-year % change (vs. 2012-13)

40%

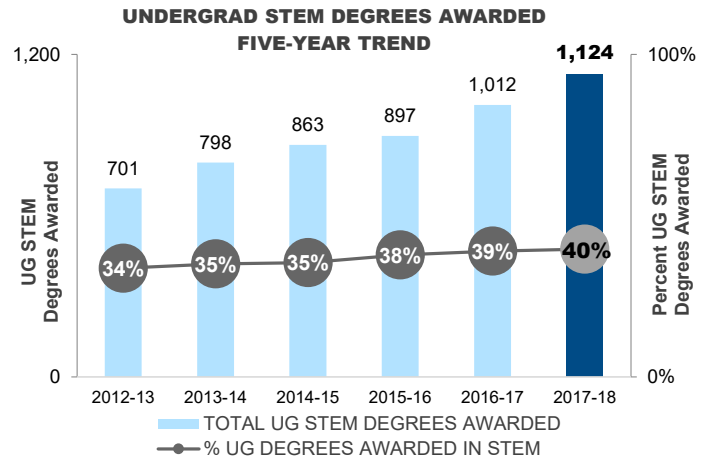
Percent of total UG degrees awarded in STEM fields in 2017-18

▲ **1**

One-year % point change (vs. 2016-17)

▲ **6**

Five-year % point change (vs. 2012-13)



505

Grad degrees awarded in STEM fields in 2017-18

▲ **19%**

One-year % change (vs. 2016-17)

▲ **62%**

Five-year % change (vs. 2012-13)

41%

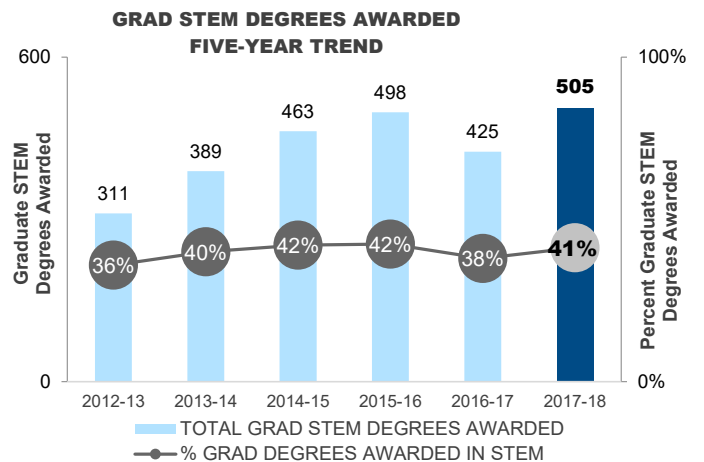
Percent of total Grad degrees awarded in STEM fields in 2017-18

▲ **3**

One-year % point change (vs. 2016-17)

▲ **5**

Five-year % point change (vs. 2012-13)



1,629

Total degrees awarded in STEM fields in 2017-18

▲ **13%**

One-year % change (vs. 2016-17)

▲ **61%**

Five-year % change (vs. 2012-13)

40%

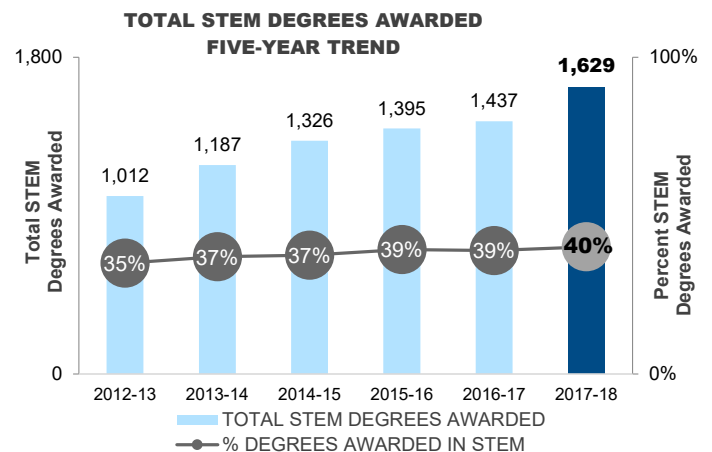
Percent of Total degrees awarded in STEM fields in 2017-18

▲ **1**

One-year % point change (vs. 2016-17)

▲ **5**

Five-year % point change (vs. 2012-13)



SERVICE TO THE COMMONWEALTH

CERTIFICATES AWARDED IN STEM FIELDS

184

Total Certificates awarded in STEM fields in 2017-18

▲ **46**

One-year nominal change (vs. 2016-17)

▲ **68**

Five-year nominal change (vs. 2012-13)

34%

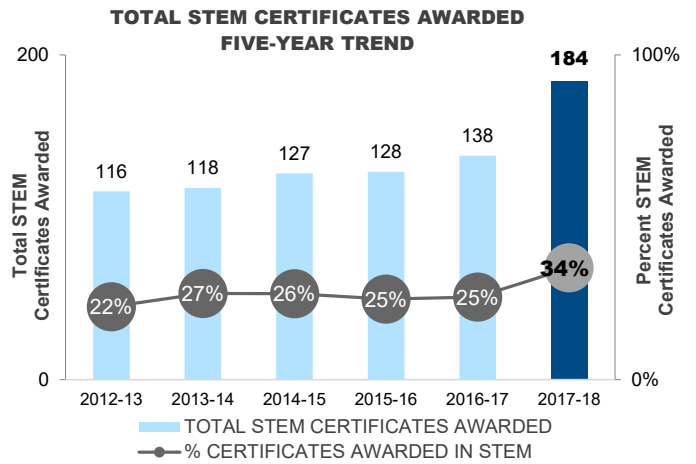
Percent of Total Certificates awarded in STEM fields in 2017-18

▲ **9**

One-year % point change (vs. 2016-17)

▲ **12**

Five-year % point change (vs. 2012-13)



DEGREES AWARDED IN HEALTHCARE FIELDS

414

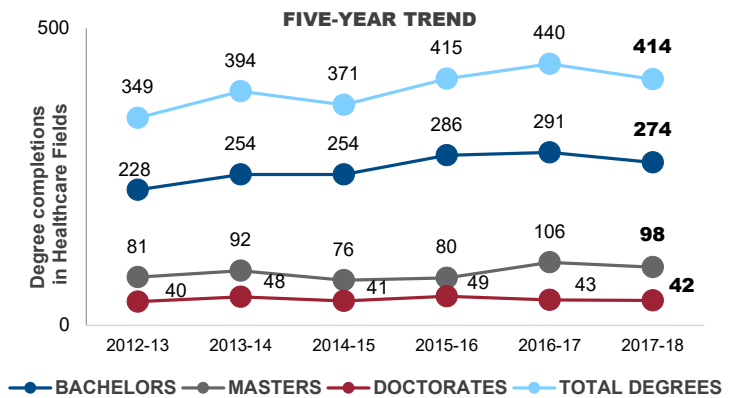
Total degrees awarded in HealthCare fields in 2017-18

▼ **6%**

One-year % change (vs. 2016-17)

▲ **19%**

Five-year % change (vs. 2012-13)



CERTIFICATES AWARDED IN HEALTHCARE FIELDS

36

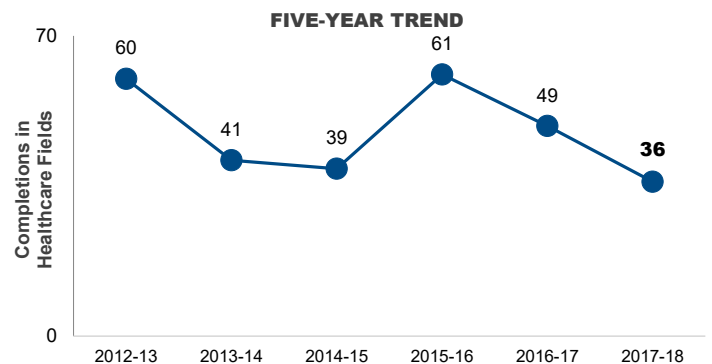
Total Certificates awarded in HealthCare fields in 2017-18

▼ **13**

One-year nominal change (vs. 2016-17)

▼ **24**

Five-year nominal change (vs. 2012-13)



SERVICE TO THE COMMONWEALTH

MTEL SCIENCE AND MATH TEST-TAKERS

6

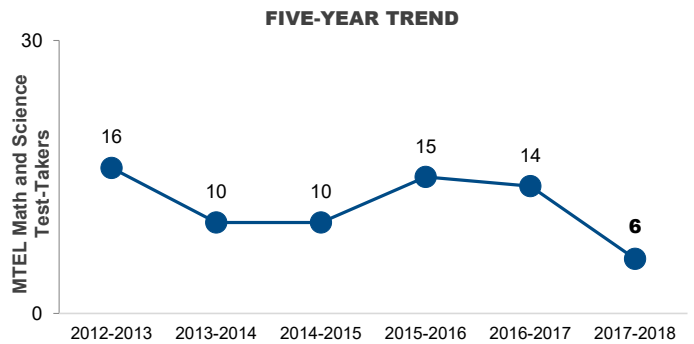
MTEL Math and Science Test-Takers in 2017-2018

▼ 8

One-year nominal change (vs. 2016-2017)

▼ 10

Five-year nominal change (vs. 2012-2013)



FINANCIAL HEALTH

ENDOWMENT ASSETS AND ANNUAL GROWTH IN ENDOWMENT

\$91.7M

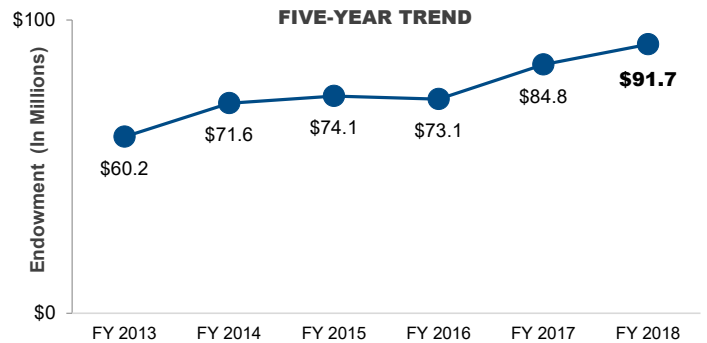
Endowment Assets in FY 2018

▲ 8%

One-year % change (vs. FY 2017)

▲ 52%

Five-year % change (vs. FY 2013)



8.1%

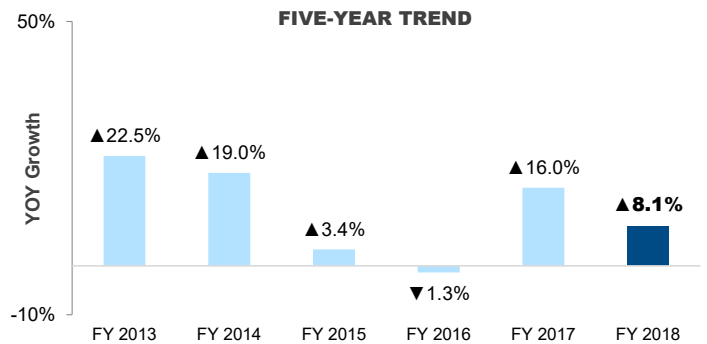
Annual Growth in FY 2018

▼ 7.9

One-year % point change (vs. FY 2017)

▼ 14.4

Five-year % point change (vs. FY 2013)



FINANCIAL HEALTH

ENDOWMENT PER ANNUALIZED STUDENT FTE

\$6k

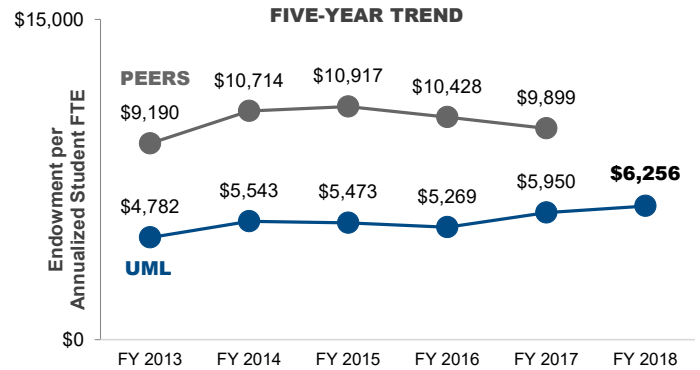
Endowment per Annualized Student FTE in FY 2018

▲ **5%**

One-year % change (vs. FY 2017)

▲ **31%**

Five-year % change (vs. FY 2013)



* Peer data for FY 2018 not available for reporting purposes.

PRIVATE FUNDS RAISED ANNUALLY

\$16M

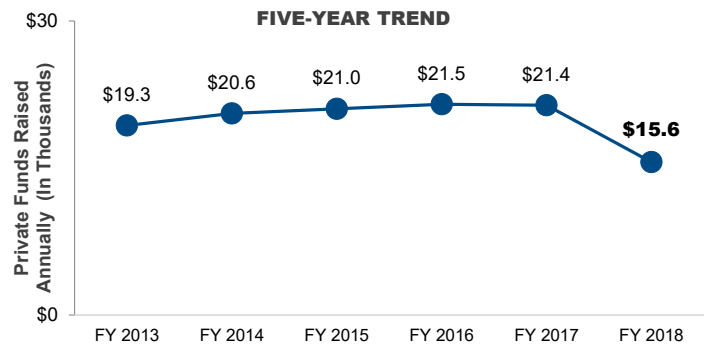
Private Funds Raised Annually in FY 2018

▼ **27%**

One-year % change (vs. FY 2017)

▼ **19%**

Five-year % change (vs. FY 2013)



PRIMARY RESERVE

16%

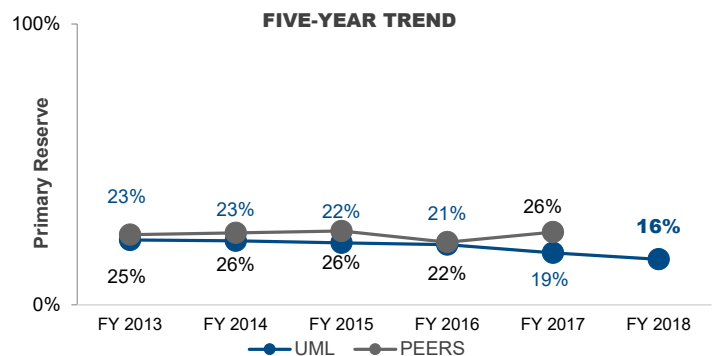
Primary Reserve in FY 2018

▼ **3**

One-year % Point change (vs. FY 2017)

▼ **7**

Five-year % Point change (vs. FY 2013)



* Peer data for FY 2018 not available for reporting purposes.

FINANCIAL HEALTH

DEBT SERVICE TO OPERATIONS

7%

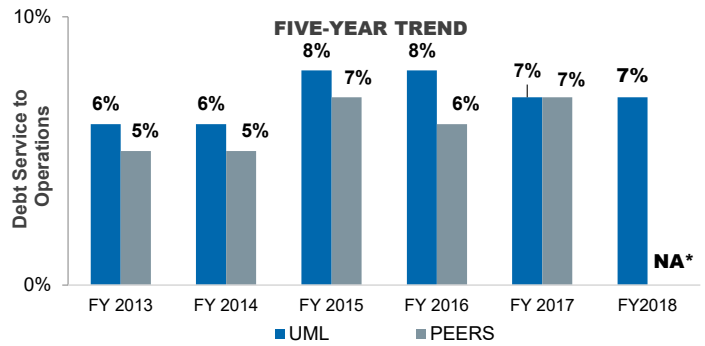
Debt Service to Operations in FY2018

0

One-year % Point change (vs. FY 2017)

1

Five-year % Point change (vs. FY 2013)



* Peer data for FY2018 not available for reporting purposes.

DEFERRED MAINTENANCE PER GROSS SQUARE FOOT

\$220

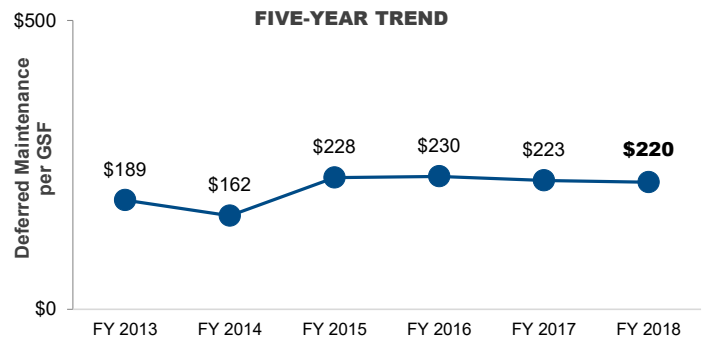
Deferred Maintenance Per Gross Square Foot in FY 2018

1%

One-year % change (vs. FY 2017)

16%

Five-year % change (vs. FY 2013)



DEFINITIONS AND SOURCES

ACADEMIC QUALITY INDICATORS

Average High School GPA of First-Time

Freshmen. Cumulative GPA for college prep courses with additional weight to honors and AP courses, according to DHE admissions policy, reported on all first-time students.

SAT Scores of Freshmen. All reported SAT scores are based on the sum of the SAT MSS and the ERWS for entering freshmen. A redesigned SAT was used for Fall 2017 admissions; therefore, scores for Fall 2016 and before cannot be compared to scores for Fall 2017 and onwards. The average is the arithmetic mean of these SAT scores. Peer data are from IPEDS.

Average GPA of Entering Transfer

Students. Cumulative GPA of entering transfer students according to DHE admissions.

Student Satisfaction with Educational

Experience. Percent of seniors who responded “good” or “excellent” to the question, “How would you evaluate your entire educational experience at this institution?” on the most recently conducted National Survey of Student Engagement (NSSE).

Student-Faculty Ratio. The ratio of FTE students to FTE instructional faculty. Faculty and students in stand-alone graduate or professional programs such as medicine, law, veterinary, dentistry, social work, business, and public health in which faculty teach virtually only graduate-level students are excluded. Teaching assistants are not counted as faculty. Data and definition are from CDS.

Technology-Enhanced Classrooms.

Classification of the campus’s total classroom capacity in terms of the level of technology support.

Doctoral Degrees Awarded. Number of doctorates awarded for AY 2017-18, which includes August/September, January/February and May award dates. These include both research/scholarship and professional practice doctorates. Peer comparison data are based on research/scholarship doctorates only that were reported to IPEDS.

Postdoctoral Appointees. The number of postdoctoral appointees as reported to the National Science Foundation (NSF).

Total R&D Expenditures. Research and development (R&D) expenditures in all academic fields from all sources (federal, state, local governments, industry, private and institutional) as reported to NSF.

Total R&D Expenditures Ranking. Annual NSF ranking of Total R&D expenditures, for all postsecondary institutions participating in the NSF HERD Survey and UMass Lowell’s rank in the annual NSF ranking of Total R&D expenditures among public institutions of higher education with a Carnegie classification of “Research University/High Activity” and with no medical school. Data source NCES WebCaspar/NSF HERD data tables.

Total R&D Expenditures per Tenure

System Faculty. R&D expenditures in all academic fields, from all sources (federal, state, local governments, industry, private and institutional) as reported to NSF, divided by total full-time tenure system faculty as reported to IPEDS. Peer data are from NSF/IPEDS.

Number of Patent Applications. Number of U.S. Patent applications filed per year. Data reported by campuses to UMass President’s Office OTCV.

License Income. Amount of annual income from license agreements. Data source: Data reported by campuses to UMass President’s Office, Office of OTCV.

Percent Tenured/Tenure-Track Faculty

FTE. Percent based on the ratio of Tenured/Tenure-Track Faculty FTE to Total Faculty FTE.

New Tenured/Tenured-Track Faculty

Hired. The number of new tenured/tenure-track Instructional Faculty members hired to start their new positions in the academic year. Data for “New

DEFINITIONS AND SOURCES

ACADEMIC QUALITY INDICATORS

Hires” is based on IPEDS definitions. Prior to 2016, “New Hires” were based on all those on payroll as of November 1 of the reporting year who were hired for full-time employment between July 1 and October 31; 2016 and onwards, IPEDS expanded the hire date to include those that were hired between November 1 of the previous year and October 31 of the reporting year.

New Tenured/Tenure-Track Faculty Hired as Percent of All Tenured/Tenure-Track Faculty.

Number of “Newly hired” Tenured/Tenure-track faculty divided Total Tenured/Tenure-track faculty of an IPEDS reporting cycle. Data for “New Hires” is based on IPEDS definitions. Prior to 2016, “New Hires” were based on all those on payroll as of November 1 of the reporting year who were hired for full-time employment between July 1 and October 31; 2016 and onwards, IPEDS expanded the hire date to include those that were hired between November 1 of the previous year and October 31 of the reporting year.

Change in Tenured/Tenure-Track Faculty.

The difference in the number of tenured/tenure-track faculty from one Fall semester to the next. Faculty members who are on paid leave are included. Does not include individuals whose primary responsibility is administrative.

Change in Faculty FTE. The difference in the total FTE, from one Fall semester to the next, for all full-time and part-time instructional faculty. Includes faculty members who are on paid leave. Does not include individuals whose primary

responsibility is administrative. Definition of Faculty FTE is per the Common Data Set and includes all faculty teaching credit courses, including credit courses offered via Continuing Education.

Faculty-of-Color The proportion of full-time instructional staff who are U.S. citizens or permanent residents and report their race/ethnicity to be one or more of the following: Hispanic/Latino, American Indian or Alaska Native, Asian, Black or African-American, Native Hawaiian or Other Pacific Islander, or Two or More Races. Race/ethnicity definition is based on IPEDS.

Women Faculty The proportion of full-time instructional staff who identify themselves as female.

Faculty Awards. Number of faculty with awards from a list of 24 prominent grant and fellowship programs in the arts, humanities, science, engineering, and health fields (e.g., Fulbright American Scholars, Guggenheim Fellows, MacArthur Foundation Fellows, National Endowment for the Humanities Fellows, NSF Career Awards, Sloan Research Fellows). Data are from *The Top American Research Universities report*.

National Academy Members. Number of faculty with active or emeritus status who have been elected to membership in the National Academy of Sciences, the National Academy of Engineering, or the Institute of Medicine. Data reported in *The Top American Research Universities*.

ACCESS AND AFFORDABILITY INDICATORS

Percent (In-State) Pell Grant Recipients.

Federal Pell Grants are awarded to low-income undergraduates based on their expected family contribution. Data as reported by campuses to the UMass President’s Office of in-state, full-time students with Pell Grants in the Financial Aid Template.

Percent Need Met for In-State Students

Awarded Need-Based Aid. The average percentage of demonstrated financial need that is met by the institution’s award of need-based financial aid to in-state undergraduate students. Data as reported to the UMass President’s Office in the Financial Aid Template.

DEFINITIONS AND SOURCES

ACCESS AND AFFORDABILITY INDICATORS

Undergraduate Student Debt Load of Graduating Class. Average debt load is based on the total debt borrowed by an Institution's graduating class (bachelor's, first-time only) divided by the number of students of that cohort that carried any amount of debt. It does not include those students with no debt load. It does not include students who have transferred in. The graduating class includes those that graduated between July 1 and June 30 of the reporting year. Data is from CDS.

Percent Undergraduates from Massachusetts. Percentage of total undergraduate students who are 'In-State' or residents of Massachusetts based on tuition

residency. For day students, use tuition classification, whereas for CE students, use actual residency at time of matriculation.

Online Course Registrations. Course registrations for the academic year for online credit courses. The academic year includes summer, fall, intersession, and spring. These do not include hybrid courses, but fully online courses only offered via UMassOnline.

Annual Growth in Online Course Registrations. The percentage rate of growth in course registrations for the fiscal year for online credit courses. The fiscal year includes summer, fall, intersession, and spring. These do not include hybrid courses, but fully online only offered via UMassOnline

STUDENT SUCCESS AND SATISFACTION INDICATORS

Undergraduate Students of Color. Undergraduates who self-identify as either African American/Black, Hispanic/ Latino, Asian, Hawaiian/Pacific Islander, American Indian/Alaskan Native, and/or Two or more races. Hispanic students who list one or more additional groups will be coded as Hispanic. Cape Verdean students who identify solely as Cape Verdean will be coded as Black/African American. Included only for U.S. Citizens and Permanent Residents who report race and ethnicity divided by total undergraduate U.S. citizens and permanent residents who report race/ethnicity.

Percent Undergraduates who are First Generation in College. Percent of first-time, full-time undergraduates where neither parent has earned a bachelor's degree. The source of this data field is the Common Application.

Percent first-time, full-time Undergraduates with English as a Second Language. Percent of first-time, full-time Undergraduates who speak a language other than English at home. The source of this data field will be from the Common Application.

Percent Undergraduates who are International. Percentage of all undergraduates who are non-resident aliens, studying at the university on an eligible visa types, and enrolled in credit courses. Does not include permanent residents, refugees, or US citizens.

Total Students Who Participated in a Study Abroad Program. Number of students who participated in a credit-bearing study abroad program outside of the U.S. over the most recent academic year, either at UMass or elsewhere.

Freshmen One-Year Retention Rate. Percent of first-time, full-time, degree-seeking freshmen who entered UMass in a given Fall and were still enrolled at the institution in the following Fall. Peer data as reported to IPEDS.

Freshmen Four-Year Graduation Rate. Percent of first-time, full-time, degree-seeking freshmen who entered UMass in a given Fall term and graduated from the institution by the end of their fourth year. Do not include associate's or CE students in the calculation.

DEFINITIONS AND SOURCES

STUDENT SUCCESS AND SATISFACTION INDICATORS

Freshmen Six-Year Graduation Rate.

Percent of first-time, full-time freshmen who entered UMass in a given Fall term and had graduated from the institution within six years. Peer data are based on the median as reported to IPEDS. Do not include associate's or CE students in the calculation.

Transfer (Full-Time) One-Year Retention

Rate. Percent of full-time transfer students at any level who entered UMass in a given Fall and were still enrolled at, or graduated from the institution as of the following Fall.

Transfer (Upper-Division) Four-Year

Graduation Rate. Percent of full-time upper division transfers (60+ credits) who entered UMass in a given Fall term and had graduated from the institution within four years.

Student Achievement Measure. SAM tracks student movement across postsecondary institutions to provide a complete picture of undergraduate student progress and completion within the higher education system. SAM is an alternative to the federal graduation rate, which is limited to tracking the completion of first-time, full-time students at one institution.

Alumni Participation Rate. The percentage of undergraduate alumni of record who donated money to the college or university. Alumni of record are former full- or part-time students who received an undergraduate degree and for whom the college or university has a current address. The alumni giving rate is calculated by dividing the number of alumni donors during a given academic year by the number of alumni of record for that same year. Graduates who earned only a graduate degree are excluded.

SERVICE TO THE COMMONWEALTH INDICATORS

Degree Completions. The number of degrees (not including certificates) awarded in the previous academic year, by degree level. As reported to IPEDS.

Percent Alumni who live in

Massachusetts. Percentage of total alumni who currently reside in Massachusetts based on alumni records.

Enrollment in STEM Programs.

Unduplicated count of students enrolled in Science, Technology, Engineering, & Math (STEM) programs. STEM programs are those fields of study defined in the National Science & Mathematics Access to Retain Talent (SMART) Grant with the exclusion of foreign languages. Enrollment count includes undergraduate, graduate and certificate students.

Degrees and Certificates Awarded in

STEM Fields. Number of undergraduate and graduate degrees awarded in STEM fields. STEM fields are those defined in the National Science & Mathematics Access to Retain Talent (SMART) Grant with the exclusion of foreign languages. Certificates data also included separately.

Degrees and Certificates Awarded in

Healthcare Fields. Number of undergraduate and graduate degrees awarded in Health Care fields. Healthcare designation as defined by Campus IR, and based on CIP classification. All of CIP 51, and specific 6-digit CIPs unique to each campus. Certificates data also included separately.

MTEL Science and Math Test-Takers.

Total number of students who took the Massachusetts Tests for Educator Licensure (MTEL) subject tests in science and math fields.

DEFINITIONS AND SOURCES

FINANCIAL HEALTH INDICATORS

Endowment Assets and Annual Growth in

Endowment. The total value of the endowment (includes true and quasi-endowments) at the end of the fiscal year as reported in the UMass Annual BOT report, and the percent change from the previous year. Comparative data are from IPEDS, financial statements, and the NACUBO survey.

Endowment per Annualized Student

(FTE). Total endowment (includes true and quasi-endowments) per annualized FTE student, where FTE of peer institutions is standardized to UMass formulae. Peer data are for comparative peers from financial statements (current year) and IPEDS (prior years).

Private Funds Raised Annually. Private funds raised include restricted and unrestricted revenues from individuals, foundations, corporations, and other organizations. Includes private grant revenues but not private contract

revenues. Totals for each year include pledges made in that year as well as the value of in-kind contributions.

Primary Reserve. Unrestricted net assets as a percentage of total operating expenditures (operating expenditures plus interest expense). Peer data are from published financial statements.

Debt Service to Operations. Debt service as a percentage of total operating expenditures (operating expenditures plus interest expense). Peer data are from published financial statements.

Deferred Maintenance per Gross Square Foot. Deferred Maintenance includes deferred and other maintenance dollars needed to maintain the current function of the campus, calculated by the "Sightlines" Return on Physical Assets methodology (ROPA sm) and shown per square foot of space. Adjusted each year for inflation.

PEER INSTITUTIONS FOR UMASS LOWELL

Georgia State University

San Diego State University

University of Maine (Orono)

University of Maryland -- Baltimore County

University of New Hampshire*

University of Rhode Island*

University of Wisconsin – Milwaukee

Virginia Commonwealth University

* Aspirant peer



MEDICAL SCHOOL

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HEADLINES

The University of Massachusetts Medical School (UMMS) continues to perform effectively in areas critical to its mission. Many of the resource constraints currently facing academic health science centers, such as limited growth in federal research expenditures, require the campus to seek resources from innovative sources and balance demands for investment with competing priorities. Ongoing successes in research; class expansion; academic programming; and fundraising initiatives continue.

UMMS leadership initiated a new strategic planning process in 2019, as the current strategic plan, “Vision 2020” nears its completion date. This new future vision for the campus, building on the successes of the last decade, will capitalize on investments in the educational program, the research enterprise, workforce development, information technology, and organizational development.

Key achievements from Vision 2020 include new teaching affiliations, including the first-ever regional campus at UMMS-Baystate; increased class size for the School of Medicine; new investments in research, including a rare diseases research institute and a cryo-electron microscopy core; FDA approval of the first of a new class of drugs based on RNA interference and a new drug to treat spinal muscular atrophy—both based on discoveries made at UMMS; new gene therapy clinical trials; new clinical departments in ophthalmology & visual sciences, neurological surgery and dermatology; revised and restructured academic personnel and human resource policies to support talent management and career development; and investments in faculty and student recruitment in support of diversity.

The ongoing strategic planning process involves more than one hundred members of the academic health sciences community, who are meeting in work groups in five principal areas: Education, Basic Science Research, Translational Research, Community & Global Impact and Operational Excellence & Financial Stewardship.

Goals for the new plan commit UMMS to a diverse, culturally competent and compassionate academic community; a broader and deeper commitment to Massachusetts through public service, workforce development, primary care, community engagement and health care innovation; new and innovative educational and learning methods to prepare the next generation of physician, nursing and biomedical science leaders; becoming an international hub for

cutting-edge science that makes a difference; accelerating the translation of discoveries to impact lives around the world; and being a leader in the social determinants of health and health equity.

The campus is well positioned for this new vision, as research and faculty achievement and intense efforts in resource maximization and operational efficiencies continue. Financial pressures, including limited state support as compared to peer institutions, still require UMMS to prioritize educational and research initiatives. Nonetheless, an unyielding commitment to education, research, service, innovation, and training remains the hallmark of the commonwealth’s great public medical school.

The research and development enterprise serves as a foundation for the generation of new knowledge, scientific discoveries, novel therapeutics, innovation, and economic activity. Licensing of UMMS intellectual property and research discoveries reflects keen national and international interest in the work of faculty. UMMS researchers continue to compete at an exceptionally high level for federal funding, even in a shrinking federal research pool and attract investment from a wide range of new and long-established biotechnology research and manufacturing entities.

- **Academic quality:** UMMS continues to attract outstanding students to the School of Medicine (SOM), as judged by admission test scores, residency match results, and performance on licensing exams. The increase in SOM class size has been successful, increasing the number of physicians in training with no negative impact on student quality, performance, or satisfaction. The applicant pool for the limited number of spaces for highly qualified out-of-state students is robust; the new “Population-based Urban and Rural Community Health” (PURCH) track students are distinguished by their passion for this targeted curricular offering. SOM graduates continue to rank their educational experience as highly satisfactory—literally in the 100th percentile in some categories. Agreements with Baystate Health (for PURCH) and Cape Cod Healthcare not only create superb clinical opportunities for the SOM but increase the school’s profile in new regions. The Graduate School of Nursing (GSN) is capably managing its curriculum, course offerings, and cross-disciplinary involvement in a changing academic and practice environment. Graduates from the Doctorate of Nursing Practice degree program, the Graduate Entry Pathway, and

HEADLINES

the doctoral program are meeting important needs in areas of practice, research, and education for the campus and the region. The Graduate School of Biomedical Sciences (GSBS) continues to track favorably to peer institutions; student achievement is notable. The GSBS is recognized for its efforts to prepare students for nontraditional and multidisciplinary careers, a nationally-renowned effort; a new dean is deeply versed in the opportunities this provides for graduates.

- The quality and reputation of the UMMS faculty continue to impress, attracting new investments and resources to the campus. A naming gift established a new Institute for Rare Diseases Research, highlighting the world-renowned expertise of the faculty in areas such as ALS and other neurodegenerative disorders. Professor Roger Davis was elected to the National Academy of Sciences; Researcher Raul Padron was named a Foreign Associate of the National Academy of Sciences; Professor Paul Greer was named a Searle Scholar, and Professor Caterina Strambio De Castilla was named an Imaging Scientist by the Chan Zuckerberg Initiative.

- Research growth, productivity, and faculty recruitment: Research productivity is significant across the departments, in part because of continued recruitment and investment in the clinical and translational sciences. Multidisciplinary programs in RNA therapeutics, systems biology, rare diseases, and a new NeuroNexus Institute are creating exciting opportunities for research growth and faculty recruitment. Licensing and sponsored research agreements in gene therapy, vaccine development, RNA biology, and drug development support research activity across all basic science disciplines.

- Crucial to the continued success of the Medical School is the ability to attract high-quality students who will be able to meet the diverse cultural needs of underserved populations in the state. For the SOM, applicants are incredibly competitive and match or exceed class profiles of previous years. Student access and affordability can be measured and supported by the learning contract option, which in relation to tuition and fees, continues to track favorably for the current year. Out-of-state students compare favorably to historical student profiles.

- Anecdotal evidence, such as rankings in the *US News & World Report* “Best Graduate Schools” continues to reinforce the reputation of the SOM as a high quality, affordable institution: the 2020 *US News* ranking places the SOM 15th in the nation for primary care - the top medical school in New England; and 45th among research institutions. UMMS also ranked 32nd among all US medical schools in NIH funding, according to the Blue Ridge Institute for Medical Research. Performance of medical students on benchmark exams and nursing students on board certification, along with residency program match results, are good supporting indicators of quality.

UMMS, like its peer institutions, continues to face difficult decisions in financing the support of strategic priorities. A comprehensive fundraising campaign in support of initiatives in education and research provides a roadmap to ambitious strategic goals, supported by a realistic plan for its vision: to remake life sciences education, research, and care in the Commonwealth. As achievements and discoveries in the life sciences portend an exciting future—one where the fruits of research positively impact human lives and at a time when the need for highly talented physicians, scientists and advanced practice nurses is projected to grow dramatically—UMMS is well positioned to respond.

AT-A-GLANCE

ACADEMIC QUALITY

• Mean MCAT Score	508.2	• NIH Funding among Medical Schools	\$160,982
• USMLE Step 1 Pass Rate	100%	• US New & World Report Ranking	15
• <i>USMLE Step 2 (CK) Pass Rate</i>	100%	• Patent Applications	89
• USMLE Step 2 (CS) Pass Rate	98%	• License Income	\$146,417
• Nursng Board Certification Pass Rate	97%	• AUTM Ranking of License Income	18
• Student Satisfaction with Medical Education Quality	97%ile	• Percent Tenured/Tenure-Track Faculty FTE	17%
• Technology-Enhanced Classrooms	65	• New Tenured/Tenure-Track Faculty Hired	5
• No. of Doctoral Degrees Awarded	191	• As Percent of Total T/TT Faculty	3%
• No. of Research Doctoral Degrees Awarded	68	• Change in Tenured/Tenure-Track Faculty	-1%
• No. of Postdoctoral Appointees	287	• Full-Time Instructional Faculty	
• Total R&D Expenditures	\$274M	• Percent Faculty-of-Color	27%
• Total R&D Expenditures Ranking	83	• Percent Women Faculty	41%
• Federal Research Support per Full-time Faculty	\$133,320	• Faculty Awards	9
• Total R&D Expenditures per Full-time Faculty	\$207,578	• National Academy Members	10

ACCESS AND AFFORDABILITY

• Tuition and Fees (Including Contract Adjustment)	\$37,776
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STUDENT SUCCESS AND SATISFACTION

• Residency Choice Acceptance Rate	96%	• Alumni Participation Rate	26%
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AT-A-GLANCE

SERVICE TO THE COMMONWEALTH

- Percent Alumni who Remain in MA **55%**
- Enrollment in STEM Programs **340 (30%)**
- Degrees Awarded in STEM Fields **71 (36%)**
- Degrees Awarded in Healthcare Fields **128 (64%)**

FINANCIAL HEALTH

- Total Endowment **\$222.4M**
- Annual Growth in Endowment **6.2%**
- Endowment per Annualized Student FTE (Includes SOM, GSBS, & GSN) **\$209,730**
- Private Funds Raised Annually **\$44.1M**
- Primary Reserve **32%**
- Debt Ratio **5%**
- Deferred Maintenance per GSF **\$201**

ACADEMIC QUALITY

MEAN MCAT SCORE

508

Average Score
for MCATs
in Fall 2018

▼ **0.8%**

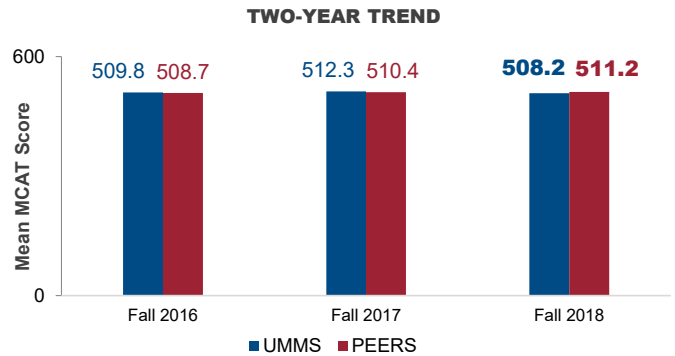
One-year
% change
(vs. Fall 2017)

▼ **0.3%**

Two-year
% change
(vs. Fall 2016)

Peer Source: AAMC Medical Schools.

Note: * Given transition from old to new score system, new scores are available in 2016-2018 only.



PASS RATES ON USMLE STEP 1 AND STEP 2 (CK)

100%

Pass Rate for
USMLE Step 1
in 2019

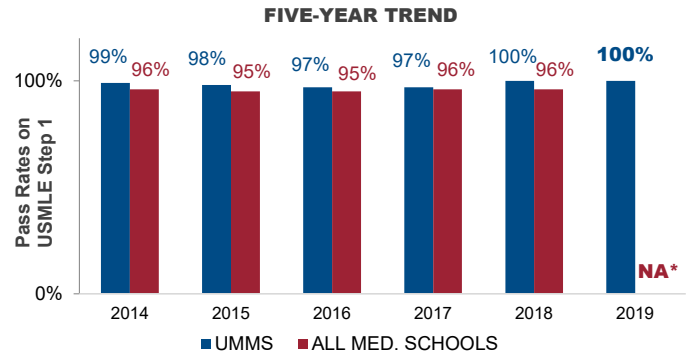
• **0**

One-year
% Point change
(vs. 2018)

▲ **1**

Five-year
% Point change
(vs. 2014)

2019 All Med. Schools data is not available



Source - National Board of Medical Examiners: Performance of Examinees.

100%

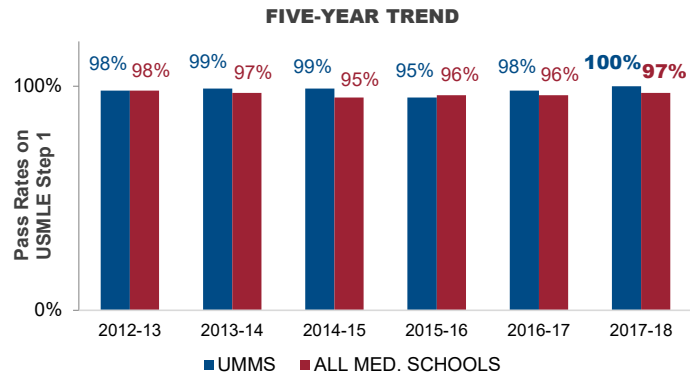
Pass Rate for
USMLE Step 2 (CK)
in 2017-18

▲ **2**

One-year
% Point change
(vs. 2016-17)

▲ **2**

Five-year
% Point change
(vs. 2012-13)



Source - National Board of Medical Examiners: Performance of Examinees.

ACADEMIC QUALITY

PASS RATES ON USMLE STEP 2 (CS)

98%

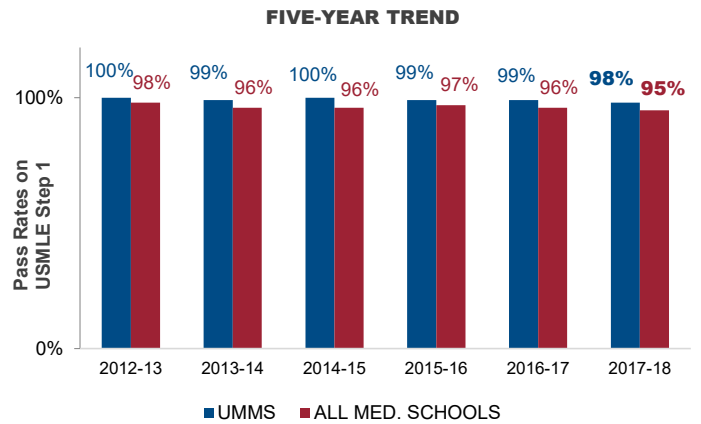
Pass Rate for USMLE Step 2 (CS) in 2017-18

▼ **1**

One-year % Point change (vs. 2016-17)

▼ **2**

Five-year % Point change (vs. 2012-13)



Peer Comparison - All U.S. and Canadian Medical Schools, Data by Academic Year.

PASS RATES ON NURSING BOARD CERTIFICATION

97%

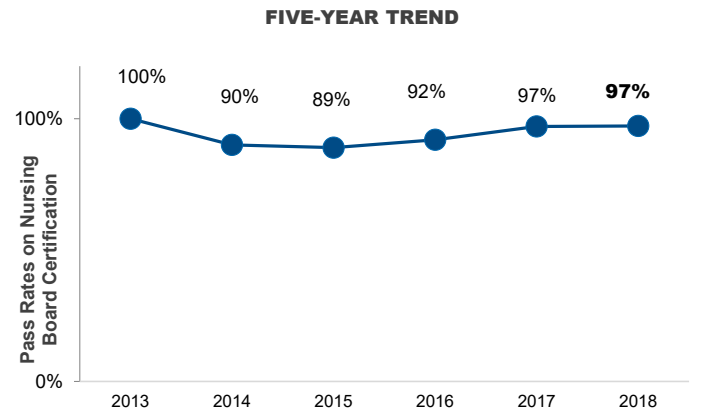
Pass Rate for Nursing Board Cert. in 2018

● **0%**

One-year % change (vs. 2017)

▼ **3%**

Five-year % change (vs. 2013)



Peer Comparison - All U.S. and Canadian Medical Schools, Data by Calendar Year.

STUDENT SATISFACTION WITH QUALITY OF MEDICAL EDUCATION

97%ile

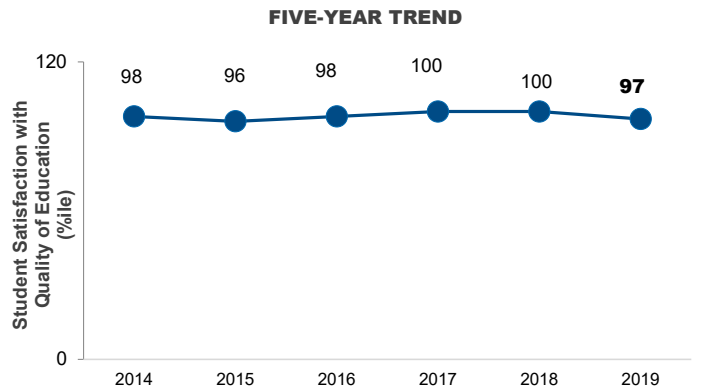
Student Satisfaction with Education Quality in 2019

▼ **3**

One-year % Point change (vs. 2018)

▼ **1**

Five-year % Point change (vs. 2014)



Source: AAMC MMT Report, Percentile reported annually

ACADEMIC QUALITY

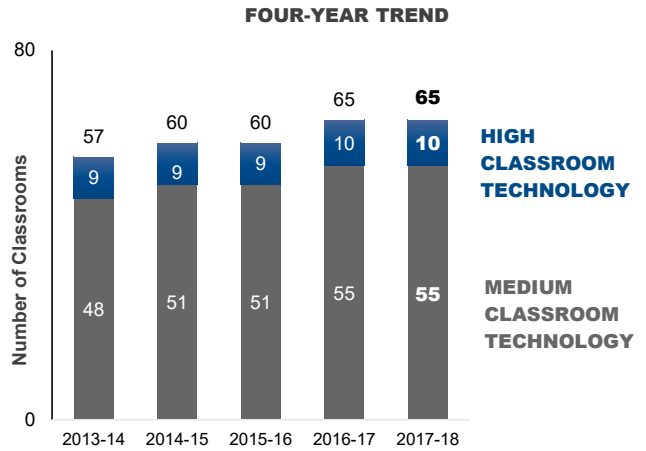
TECHNOLOGY-ENHANCED CLASSROOMS

65
Total Technology Enhanced Classrooms in 2017-18

0%
One-year % change (vs. 2016-17)

▲ 8%
Four-year % change (vs. 2013-14)

* UMMS does not presently have Very High or Basic level classrooms.

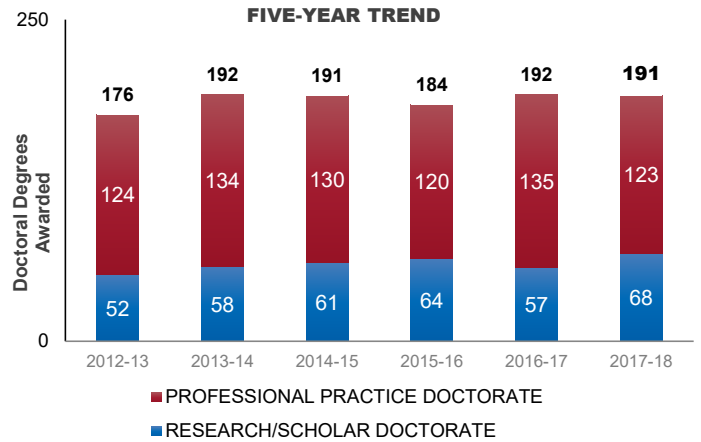


DOCTORAL DEGREES AWARDED

191
Doctoral Degrees Awarded in 2017-18

▼ 1%
One-year % change (vs. 2016-17)

▲ 9%
Five-year % change (vs. 2012-13)

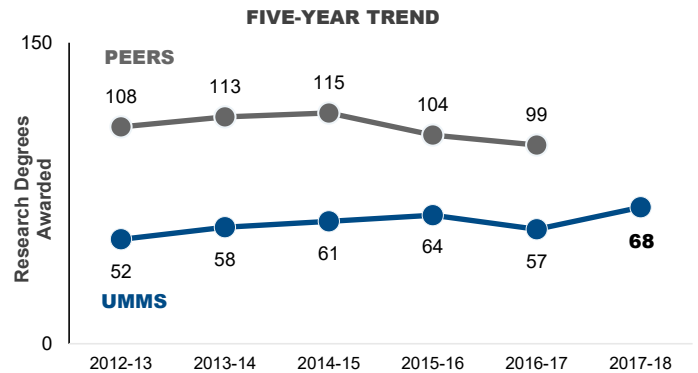


RESEARCH DOCTORAL DEGREES AWARDED

68
Research Degrees Awarded in 2017-18

▲ 11
One-year nominal change (vs. 2016-17)

▲ 16
Five-year nominal change (vs. 2012-13)



2018-19 Peer Median data is not available

ACADEMIC QUALITY

POSTDOCTORAL APPONTEES

287

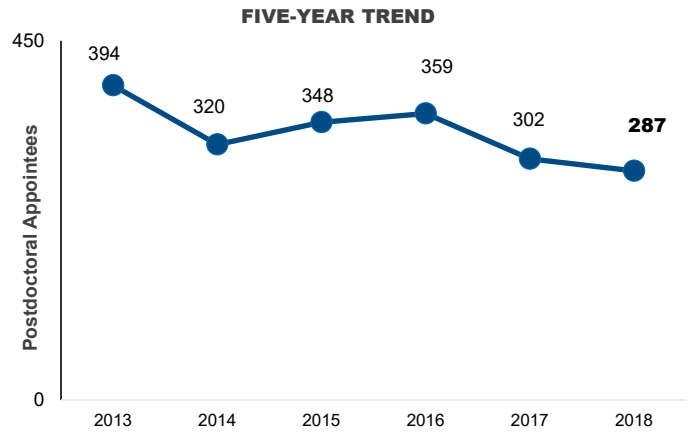
Postdoctoral Appointees in 2018

▼ **5%**

One-year % change (vs. 2017)

▼ **27%**

Five-year % change (vs. 2013)



TOTAL R&D EXPENDITURES

\$274

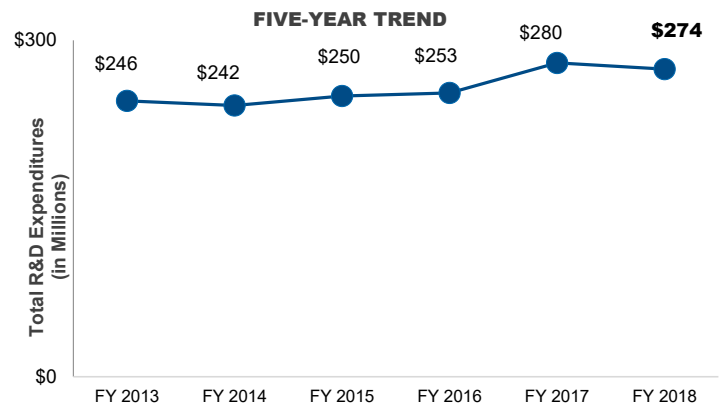
Million in R&D Expenditures in FY 2018

▼ **2%**

One-year % change (vs. FY 2017)

▲ **12%**

Five-year % change (vs. FY 2013)



TOTAL R&D EXPENDITURES RANKINGS

83

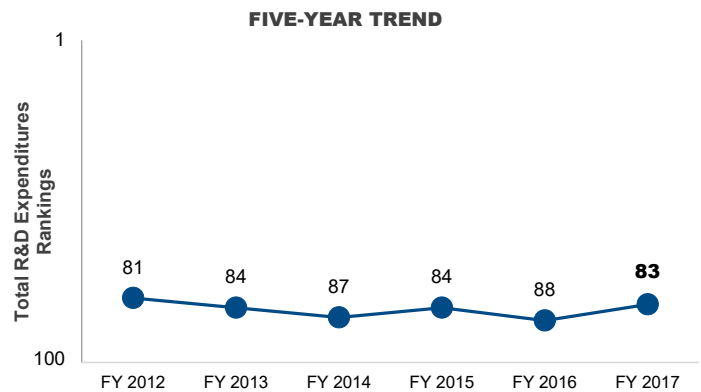
Total R&D Expenditure Ranking in FY 2017

▲ **5**

One-year nominal change (vs. FY 2016)

▼ **2**

Five-year nominal change (vs. FY 2012)



ACADEMIC QUALITY

TOTAL R&D EXPENDITURES PER FULL-TIME FACULTY

\$208k

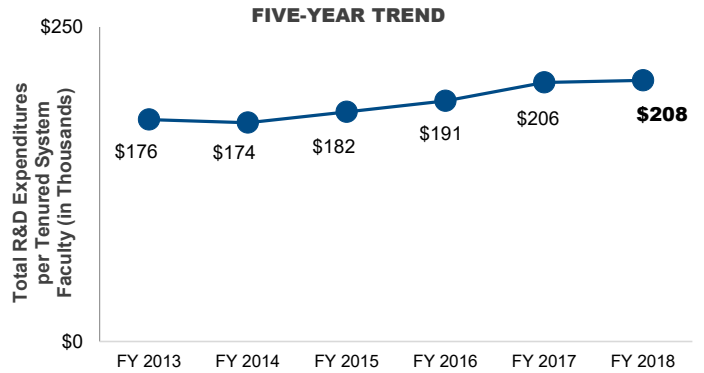
Total R&D Expenditure Per Tenured System Faculty in FY 2018

▲ 1%

One-year % change (vs. FY 2017)

▲ 18%

Five-year % change (vs. FY 2013)



FEDERAL RESEARCH SUPPORT PER FULL-TIME FACULTY

\$133k

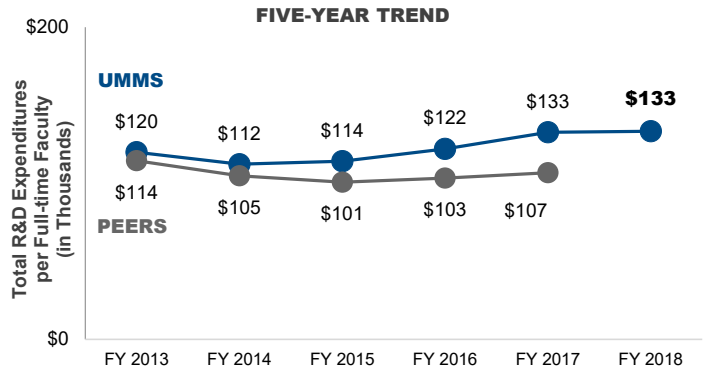
Federal Research Support Per Tenured Full-time Faculty in FY 2018

● 0%

One-year % change (vs. FY 2017)

▲ 11%

Five-year % change (vs. FY 2013)



FY 2018 Peer Median data is not available

NIH FUNDING AMONG MEDICAL SCHOOLS

\$161k

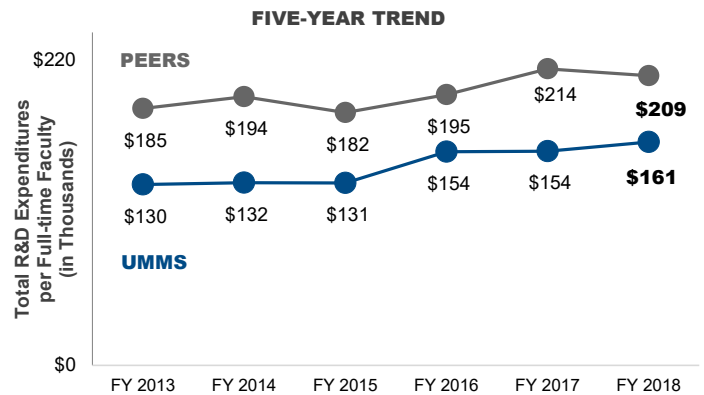
NIH Funding among Medical Schools in FY 2018

▲ 4%

One-year % change (vs. FY 2017)

▲ 23%

Five-year % change (vs. FY 2013)



ACADEMIC QUALITY

US NEWS RANKING

15

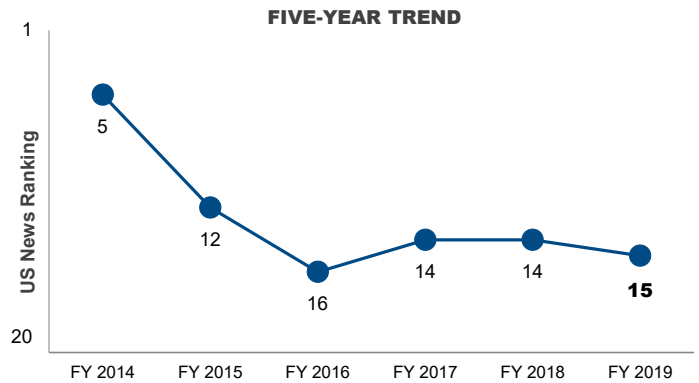
Medical Schools Ranking in FY 2019

▼ **1**

One-year nominal change (vs. FY 2018)

▼ **10**

Five-year nominal change (vs. FY 2014)



PATENT APPLICATIONS

89

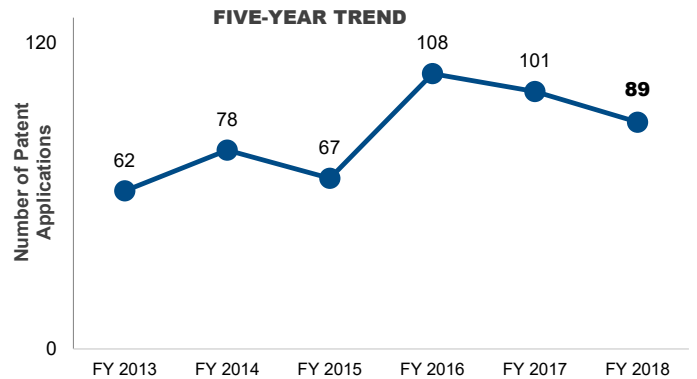
Patent Applications in FY 2018

▼ **12**

One-year nominal change (vs. FY 2017)

▲ **27**

Five-year nominal change (vs. FY 2013)



LICENSE INCOME

\$146k

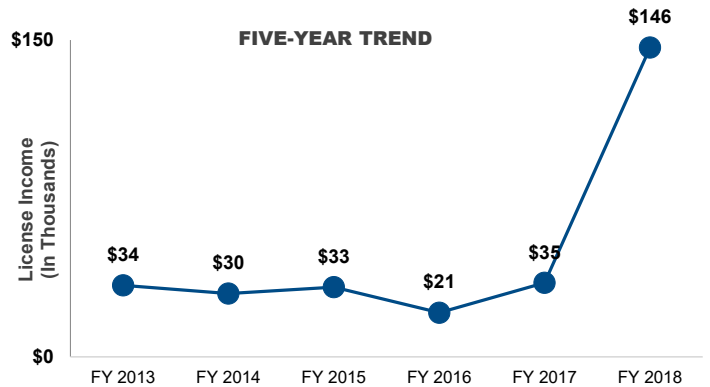
License Income in FY 2018

▲ **318%**

One-year % change (vs. FY 2017)

▲ **333%**

Five-year % change (vs. FY 2013)



ACADEMIC QUALITY

AUTM RANKING OF LICENSE INCOME

18

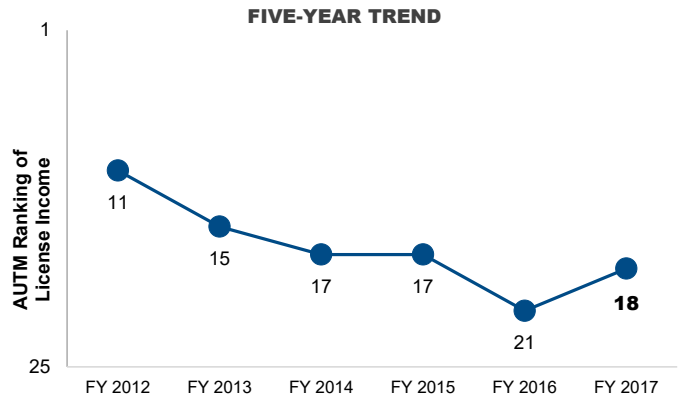
AUTM Ranking License Income in FY 2017

▲ 3

One-year nominal change (vs. FY 2016)

▼ 7

Five-year nominal change (vs. FY 2012)



PERCENT TENURED/TENURE-TRACK FACULTY FTE

17%

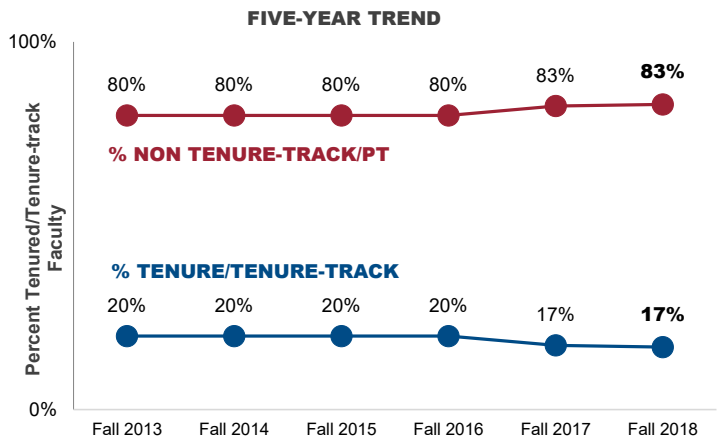
Percent Tenured/Tenure-track Faculty in Fall 2018

● 0

One-year % Point change (vs. Fall 2017)

▼ 3

Five-year % Point change (vs. Fall 2013)



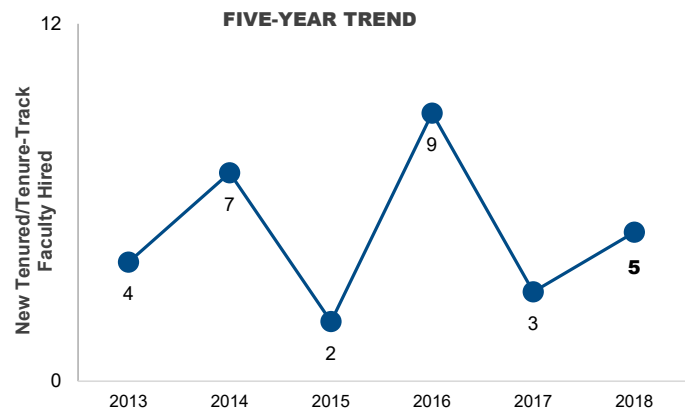
NEW TENURED/TENURE-TRACK FACULTY HIRED

5

Tenure-Track Faculty Hired in 2018

▲ 2

One-year nominal change (vs. 2017)



Data for "New Hires" is based on IPEDS definitions from 2016

ACADEMIC QUALITY

NEW TENURED/TENURE-TRACK FACULTY HIRED AS PERCENT OF ALL TENURE-TRACK FACULTY

3%

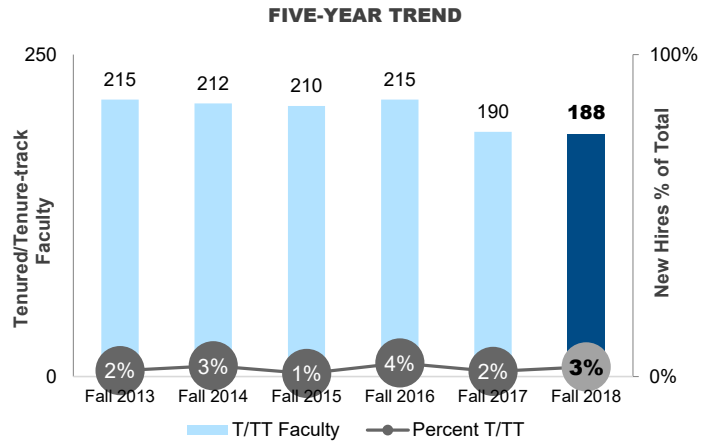
Percent New Tenured/
Tenure-Track
Faculty Hired
in Fall 2018

▲ 1

One-year
% point change
(vs. Fall 2017)

▲ 1

Five-year
% change
Tenured/Tenure-
Track Faculty
(vs. Fall 2013)



In 2016 "New Hires" were expanded to include any faculty hired from November 1 and October 31.

FACULTY FTE

1,064

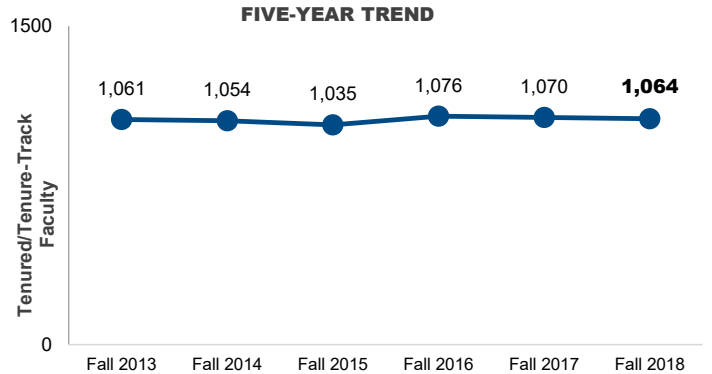
Total Tenured/
Tenure-track Faculty
in Fall 2018

▼ 1%

One-year
% change
(vs. Fall 2017)

● 0%

Five-year
% change
(vs. Fall 2013)



In 2016 "New Hires" were expanded to include any faculty hired from November 1 and October 31.

FACULTY-OF-COLOR

264

Faculty Of Color
in Fall 2018

▲ 12

One-year
nominal change
(vs. Fall 2017)

▲ 13

Five-year
nominal change
(vs. Fall 2013)

27%

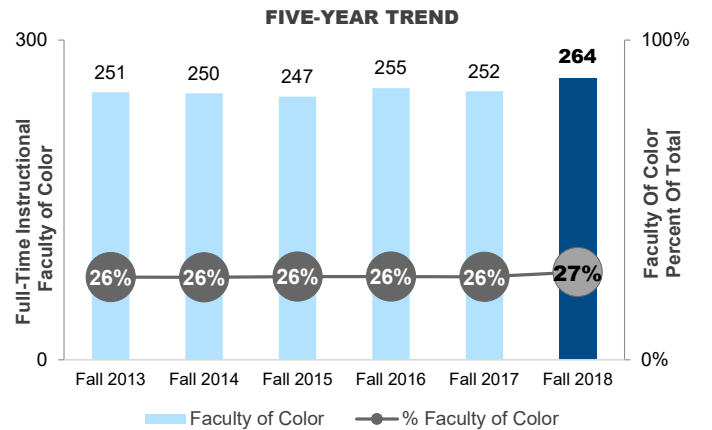
Percent of
Faculty Of Color
in Fall 2018

▲ 1

One-year
% point
(vs. Fall 2017)

▲ 1

Five-year
% point
(vs. Fall 2013)



Faculty of Color based on 2010 IPEDS definitions Race/Ethnicity. Does not include Unknowns and Non Resident Aliens.

ACADEMIC QUALITY

WOMEN FACULTY

416

Women Faculty in Fall 2018

▲ **13**

One-year nominal change (vs. Fall 2017)

▲ **54**

Five-year nominal change (vs. Fall 2013)

41%

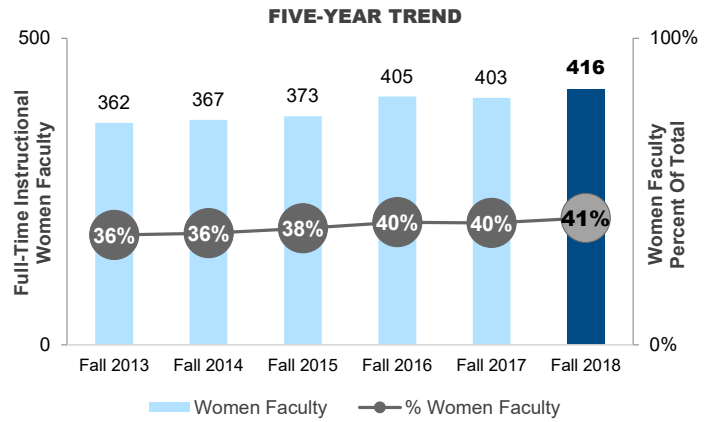
Percent of Women Faculty in Fall 2018

▲ **1**

One-year % point (vs. Fall 2017)

▲ **5**

Five-year % point (vs. Fall 2013)



FACULTY AWARDS

9

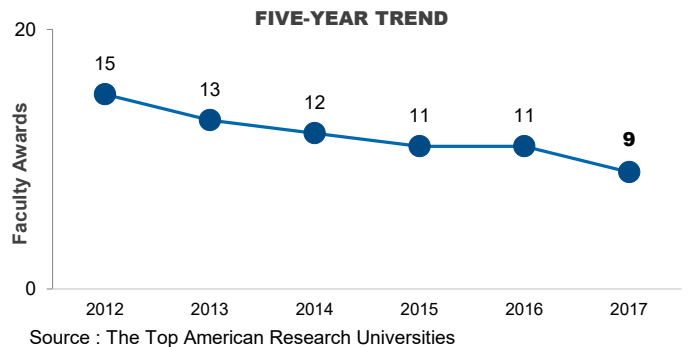
Faculty Awards in 2017

▼ **2**

One-year nominal change (vs. 2016)

▼ **6**

Five-year nominal change (vs. 2012)



NATIONAL ACADEMY MEMBERS

10

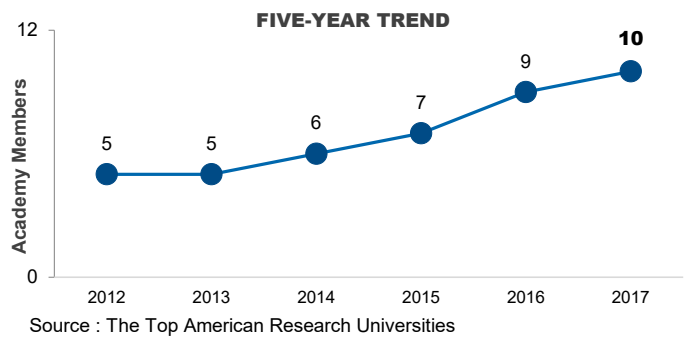
National Academy Members in 2017

▲ **1**

One-year nominal change (vs. 2016)

▲ **5**

Five-year nominal change (vs. 2012)



ACCESS AND AFFORDABILITY

TUITION AND FEES (INCLUDES ADJUSTMENT FOR LEARNING CONTRACT)

\$37.8k

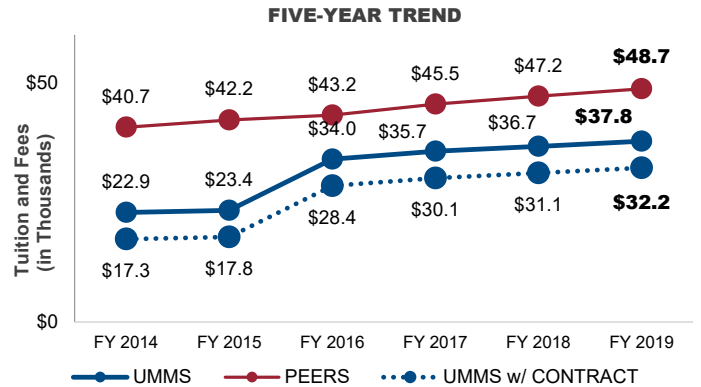
Tuition & Mandatory Fees in FY 2019

▲ 3%

One-year % change in Tuition & Mandatory Fees (vs. FY 2018)

▲ 65%

Five-year % change Tuition & Mandatory Fees (vs. FY 2014)



STUDENT SUCCESS AND SATISFACTION

ACCEPTANCE RATE TO CHOICE OF RESIDENCY

96%

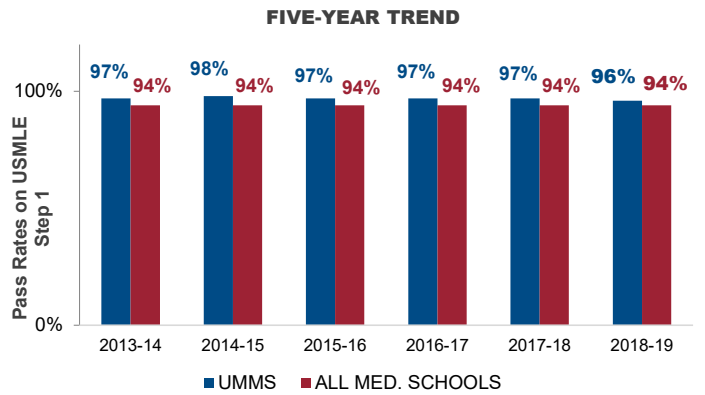
Residency Choice Acceptance Rate in 2018-19

▼ 1

One-year % point change (vs. 2017-18)

▼ 1

Five-year % point change (vs. 2013-14)



ALUMNI PARTICIPATION RATE

26%

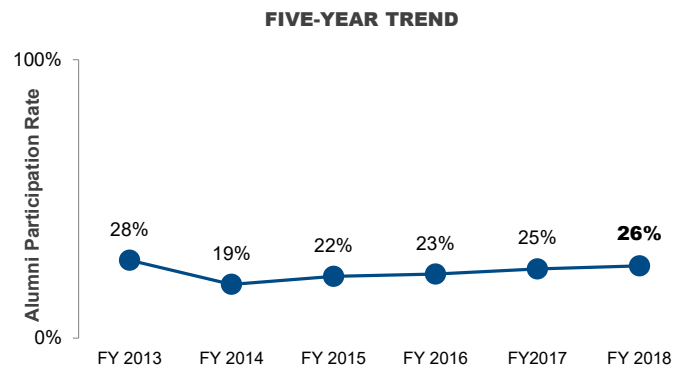
Alumni Participation Rate in FY 2018

▲ 1

One-year % point change (vs. FY2017)

▼ 2

Five-year % point change (vs. FY 2013)



UMASS MEDICAL SCHOOL SERVICE TO THE COMMONWEALTH

PERCENT ALUMNI WHO LIVE IN MASSACHUSETTS

55%

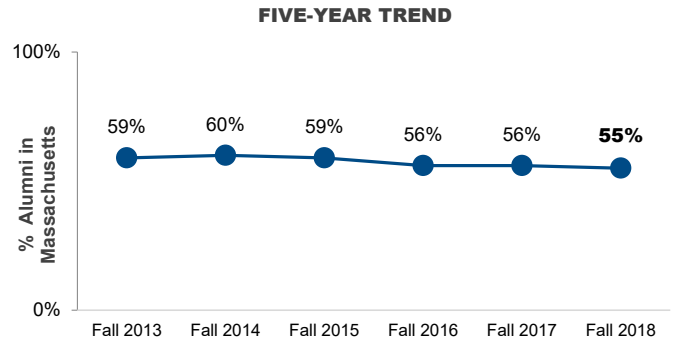
Alumni Who Live in Massachusetts in Fall 2018

▼ **1**

One-year % point change (vs. Fall 2017)

▼ **4**

Five-year % point change (vs. Fall 2013)



ENROLLMENT IN STEM PROGRAMS

340

Enrollment in STEM fields in Fall 2018

▼ **2%**

One-year % change (vs. Fall 2017)

▼ **12%**

Five-year % change (vs. Fall 2013)

30%

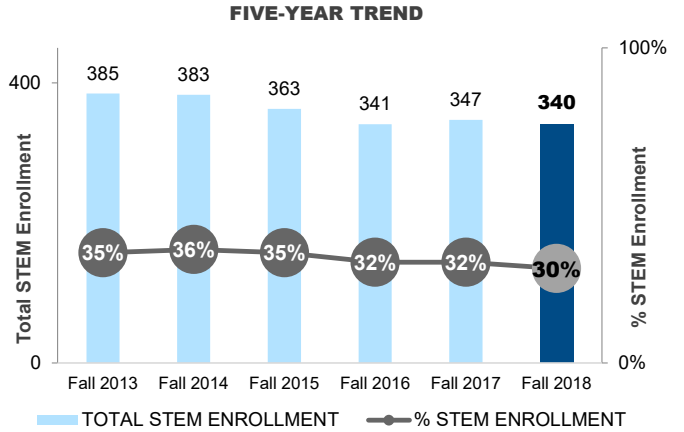
Percent of enrollment in STEM fields in Fall 2018

▼ **2**

One-year % point change (vs. Fall 2017)

▼ **5**

Five-year % point change (vs. Fall 2013)



DEGREES AWARDED IN STEM FIELDS

71

STEM Degrees Awarded in 2017-18

▲ **25%**

One-year % change (vs. 2016-17)

▲ **29%**

Five-year % change (vs. 2012-13)

36%

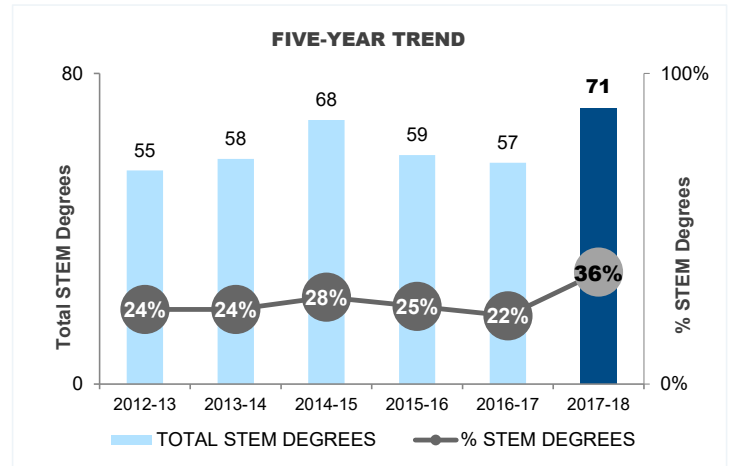
Percent of degrees in STEM fields in 2017-18

▲ **14**

One-year % point change (vs. 2016-17)

▲ **12**

Five-year % point change (vs. 2012-13)



UMASS MEDICAL SCHOOL SERVICE TO THE COMMONWEALTH

DEGREES IN HEALTHCARE PROGRAMS

128

Healthcare Degrees
Awarded in
in 2017-18

▼ **36%**

One-year
% change
(vs. 2016-17)

▼ **27%**

Five-year
% change
(vs. 2012-13)

64%

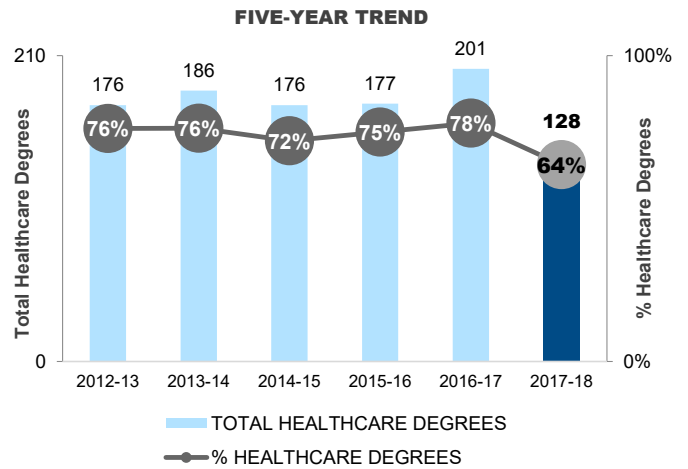
Percent of
degrees in
Healthcare fields
in 2017-18

▼ **14**

One-year
% point change
(vs. 2016-17)

▼ **12**

Five-year
% point change
(vs. 2012-13)



FINANCIAL HEALTH

ENDOWMENT ASSETS

\$222M

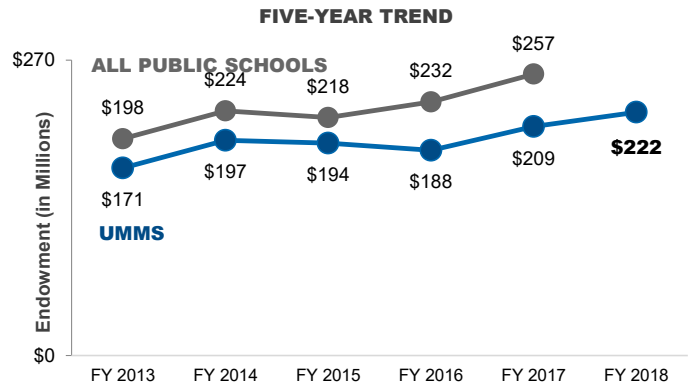
Endowment Assets
in FY 2018

▲ **6%**

One-year
% change
(vs. FY 2017)

▲ **30%**

Five-year
% change
(vs. FY 2013)



FY 2018 All Public Schools* data are not available

ENDOWMENT PER ANUALIZED STUDENT FTE

\$210k

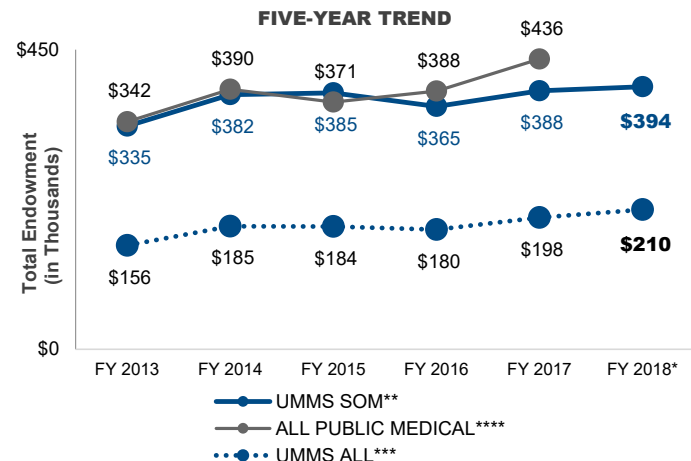
Endowment per FTE
All Schools
in FY 2018*

▲ **6%**

One-year
% change in
Endowment per FTE
All Schools
(vs. FY 2017)

▲ **34%**

Five-year
% change
Endowment per FTE
All Schools
(vs. FY 2013)



FY 2018*All Public Schools**** are currently not available

** Total endowment per UMMS annualized student FTE - SOM only

*** Total endowment UMMS annualized student FTE - All 3 Schools

**** Total endowment per student enrollment - All public medical schools

FINANCIAL HEALTH

PRIVATE FUNDS RAISED ANNUALLY*

44.1

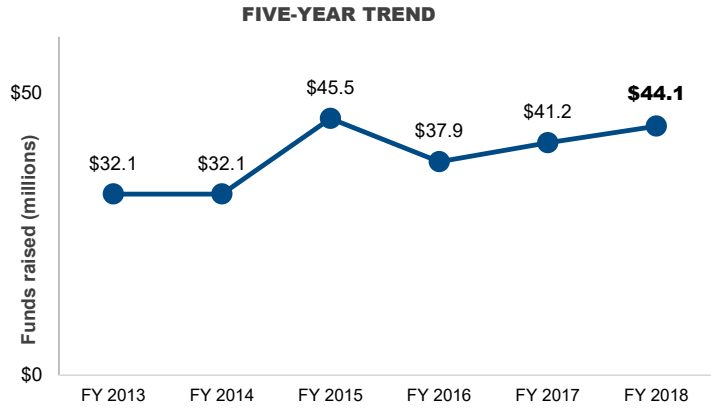
Million
in FY 2018

▲ 7%

One-year
% change in
(vs. FY 2017)

▲ 38%

Five-year
% change
(vs. FY 2013)



* Includes cash, pledges and grants

PRIMARY RESERVE

32%

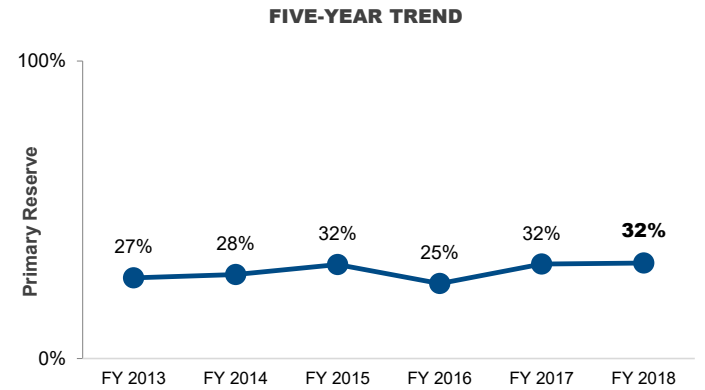
Primary
Reserve
in FY 2018

● 0

One-year
% Point change
(vs. FY 2017)

▲ 5

Five-year
% Point change
(vs. FY 2013)



DEBT SERVICE TO OPERATIONS

5%

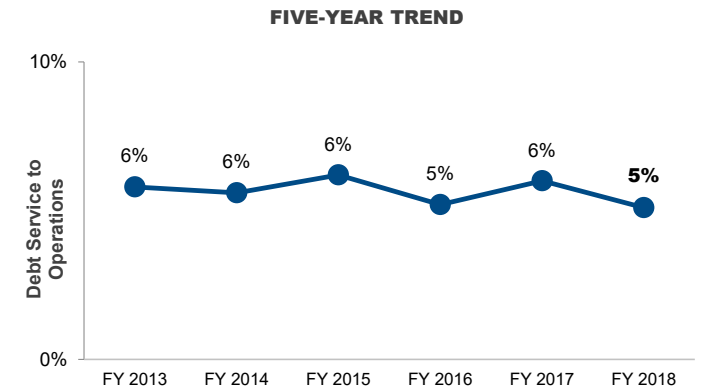
Primary
Reserve
in FY 2018

▼ 1

One-year
Point change
(vs. FY 2017)

▼ 1

Five-year
Point change
(vs. FY 2013)



FINANCIAL HEALTH

DEFERRED MAINTENANCE PER GSF

\$201

Deferred Maintenance per GSF in FY 2018

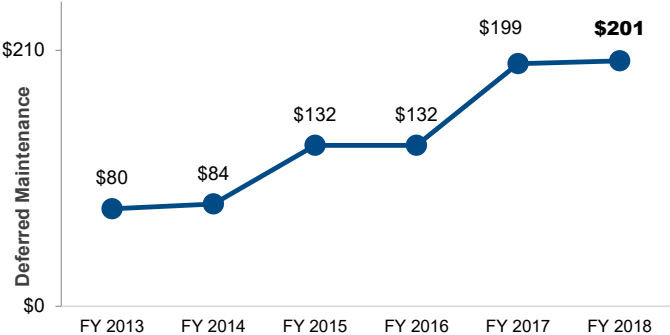
▲ 1%

One-year % change in (vs. FY 2017)

▲ 152%

Five-year % change (vs. FY 2013)

FIVE-YEAR TREND



DEFINITIONS AND SOURCES

ACADEMIC QUALITY INDICATORS

Mean MCAT Score. Mean biology MCAT score for new medical students. Peer data calculated from AAMC website.

Pass Rates on USMLE Step 1 and Step 2 (CK, CS). The percentage of medical students passing Step 1 and Step 2 on their first attempt. Peer data represents national results from National Board of Medical Examiners (NBME).

Pass Rate on Nursing Board Certification. The percentage of nursing graduates who passed the board certification examination on their first attempt. National results (provided by the American Nurses Association Credentialing Center) represent pass rates by registered nursing graduates from all graduate nursing schools in the United States. Peer data not available.

Student Satisfaction With Quality of Medical Education. The percentile of graduating medical students indicating "very satisfied" with the quality of their medical education. UMMS percentile compares to national peer data from AAMC MMT Annual Report.

Technology-Enhanced Classrooms. Classification of the campus's total classroom capacity in terms of the level of technology-support.

Doctoral Degrees Awarded. Number of doctorates awarded for 2017-18, which includes August/September, January/February and May award dates. These include both research/scholarship and professional practice doctorates. Peer comparison data are based on research/scholarship doctorates only that were reported to IPEDS.

Postdoctoral Appointees. The number of postdoctoral appointees as reported to the National Science Foundation (NSF).

Total R&D Expenditures. Research and development (R&D) expenditures in all academic

fields from all sources (federal, state, local governments, industry, private and institutional) as reported to NSF.

Total R&D Expenditures Ranking. Annual NSF ranking of Total R&D expenditures, for all postsecondary institutions participating in the NSF HERD Survey. Data source NCES WebCaspar/NSF HERD data tables.

Total R&D Expenditures per Full-Time Faculty. R&D expenditures from all sources (federal, state, local governments, industry, private, and institutional) and in all academic fields, as reported to NSF, divided by all full-time faculty as reported by the AAMC. Peer data not available.

Federal Research Support per Full-Time Faculty. Federal research direct plus federal research facilities and administration divided by all full-time faculty as reported by the AAMC Ad Hoc Report, 20-school peer list.

NIH Funding Among Medical Schools. Annual amount of NIH Funding. UMMS and peer data are from NIH Ad Hoc Report, 20-school peer list.

US News Ranking. U.S. News annual ranking of medical schools with emphasis in Primary Care.

Patent Applications. Number of U.S. Patent applications filed per year. Data reported by campuses to UMass President's Office, OTCV.

License Income. Amount of annual income from license agreements. Data reported by each UMass campus to President's Office, OTCV.

AUTM Ranking of Licensing Income. Ranking of licensing income as reported on the Association of University Technology Managers (AUTM) Annual Licensing Survey.

Percent Tenured/Tenure-Track Faculty FTE. Percent based on the ratio of Tenured/Tenure-Track Faculty FTE to Total Faculty FTE.

DEFINITIONS AND SOURCES

ACADEMIC QUALITY INDICATORS

New Tenured/Tenured-Track Faculty

Hired. The number of new tenured/tenure-track Instructional Faculty members hired to start their new positions in the academic year. Data for “New Hires” is based on IPEDS definitions. Prior to 2016, “New Hires” were based on all those on payroll as of November 1 of the reporting year who were hired for full-time employment between July 1 and October 31; 2016 and onwards, IPEDS expanded the hire date to include those that were hired between November 1 of the previous year and October 31 of the reporting year.

New Tenured/Tenure-Track Faculty Hired as Percent of All Tenure-Track Faculty.

Number of “Newly hired” Tenured/Tenure-track faculty divided Total Tenured/Tenure-track faculty of an IPEDS reporting cycle. Data for “New Hires” is based on IPEDS definitions. Prior to 2016, “New Hires” were based on all those on payroll as of November 1 of the reporting year who were hired for full-time employment between July 1 and October 31; 2016 and onwards, IPEDS expanded the hire date to include those that were hired between November 1 of the previous year and October 31 of the reporting year.

Change in Tenured/Tenure-Track Faculty.

The difference in the number of tenured/tenure-track faculty from one Fall semester to the next. Faculty members who are on paid leave are included. Does not include individuals whose primary responsibility is administrative.

Faculty FTE. The difference in the total FTE, from one Fall semester to the next, for all full-time and part-time instructional faculty. Includes faculty

members who are on paid leave. Does not include individuals whose primary responsibility is administrative. Definition of Faculty FTE is per the Common Data Set, and includes all faculty teaching credit courses, including credit courses offered via Continuing Education.

Faculty-of-Color. The proportion of full-time instructional staff who are U.S. citizens or permanent residents and report their race/ethnicity to be one or more of the following: Hispanic/Latino, American Indian or Alaska Native, Asian, Black or African-American, Native Hawaiian or Other Pacific Islander, or Two or More Races. Race/ethnicity definition is based on IPEDS.

Women Faculty. The proportion of full-time instructional staff who identify themselves as female.

Faculty Awards. Number of faculty awards from a list of 24 prominent grant and fellowship programs in the arts, humanities, science, engineering and health fields (e.g., Fulbright American Scholars, Guggenheim Fellows, MacArthur Foundation Fellows, National Endowment for the Humanities Fellows, NSF Career Awards, Sloan Research Fellows). Data reported in *The Top American Research Universities* and were obtained from directories, or web-based listings.

National Academy Members. Number of faculty with active or emeritus status who have been elected to membership in the National Academy of Sciences, the National Academy of Engineering, or the Institute of Medicine. Data reported in *The Top American Research Universities*.

ACCESS AND AFFORDABILITY INDICATORS

Tuition and Fees. Annual tuition and mandatory fees for in-state students including adjustment for learning contracts. Peer data from AAMC.

Acceptance Rate to Choice of Residency. Percent of graduating students

accepted to their choice of residency. National results provided by NRMP.

Alumni Participation Rate. The number of alumni donors divided by the number of alumni of record where alumni of record is defined as all living alumni.

DEFINITIONS AND SOURCES

SERVICE TO THE COMMONWEALTH INDICATORS

Percent Alumni Who Live in

Massachusetts. The percentage of UMMS alumni who live in Massachusetts.

Enrollment in STEM Programs.

Unduplicated count of students enrolled in Science, Technology, Engineering, & Math (STEM) programs. STEM programs are those fields of study defined in the National Science & Mathematics Access to Retain Talent (SMART) Grant with the exclusion of foreign languages. Enrollment count includes undergraduate, graduate and certificate students.

Degrees and Certificates Awarded in

STEM Fields. Number of undergraduate and graduate degrees awarded in STEM fields. STEM fields are those defined in the National Science & Mathematics Access to Retain Talent (SMART) Grant with the exclusion of foreign languages. Certificates data also included separately.

Degrees and Certificates Awarded in

Healthcare Fields. Number of undergraduate and graduate degrees and certificates awarded in Health Care fields. Healthcare designation as defined by Campus IR, and based on CIP classification. All of CIP 51, and specific 6-digit CIPs unique to each campus. Certificates data also included separately.

FINANCIAL HEALTH INDICATORS

Endowment Assets and Annual Growth in

Endowment. The total value of the endowment (includes true and quasi-endowments) at the end of the fiscal year as reported in the UMass Annual BOT report, and the percent change from the previous year. Comparative data are from IPEDS, financial statements, and the NACUBO survey.

Endowment per Annualized Student

(FTE). Total endowment (includes true and quasi-endowments) per annualized FTE student, where FTE of peer institutions is standardized to UMass formulae. Peer data are for comparative peers from financial statements (current year) and IPEDS (prior years).

Private Funds Raised Annually. Private funds raised include restricted and unrestricted revenues from individuals, foundations, corporations, and other organizations. Includes private grant revenues but not private contract revenues. Totals for each year include pledges

made in that year as well as the value of in-kind contributions.

Primary Reserve. Unrestricted net assets as a percentage of total operating expenditures (operating expenditures plus interest expense). Peer data are from published financial statements.

Debt Service to Operations. Debt service as a percentage of total operating expenditures (operating expenditures plus interest expense). Peer data are from published financial statements.

Deferred Maintenance per Gross Square Foot. Deferred Maintenance includes deferred and other maintenance dollars needed to maintain the current function of the campus, calculated by the "Sightlines" Return on Physical Assets methodology (ROPAsm) and shown per square foot of space. Adjusted each year for inflation.

DEFINITIONS AND SOURCES

PUBLIC MEDICAL SCHOOL PEER INSTITUTIONS

ARIZONA	NEBRASKA	UMDNJ NEW JERSEY
ARKANSAS	NEVADA	UT GALVESTON
BUFFALO	NEW MEXICO	UT HOUSTON
CINCINNATI	NORTH DAKOTA	UT SAN ANTONIO
COLORADO	NORTHEASTERN OHIO	UTAH
EAST CAROLINA - BRODY	OKLAHOMA	VERMONT
EAST TENNESSEE - QUILLEN	OREGON	VIRGINIA COMMONWEALTH
EASTERN VIRGINIA	PENN STATE	WEST VIRGINIA
FLORIDA STATE	PUERTO RICO	WRIGHT STATE - BOONSHOFT
GEORGIA	SUNY DOWNSTATE	WRIGHT STATE
HAWAII - BURNS	SUNY UPSTATE	ALABAMA
ILLINOIS	SOUTH ALABAMA	CONNECTICUT
KANSAS	SOUTH CAROLINA	FLORIDA
KENTUCKY	SOUTH DAKOTA	INDIANA
LSU NEW ORLEANS	SOUTH FLORIDA	IOWA - CARVER
LSU SHREVEPORT	SOUTHERN ILLINOIS	MARYLAND
LOUISVILLE	STONY BROOK	MICHIGAN
MU OHIO	TENNESSEE	NORTH CAROLINA
MU SOUTH CAROLINA	TEXAS A & M	OHIO STATE
MARSHALL - EDWARDS	TEXAS TECH	UC DAVIS
MASSACHUSETTS	U WASHINGTON	UT SOUTHWESTERN
MICHIGAN STATE	UC IRVINE	VIRGINIA
MINNESOTA TWIN CITIES	UC SAN DIEGO	WAYNE STATE
MISSISSIPPI	UC SAN FRANCISCO	WISCONSIN
MISSOURI COLUMBIA	UCLA - GEFFEN	
MISSOURI KANSAS CITY	UMDNJ - RW JOHNSON	

DEFINITIONS AND SOURCES

SELECTED PEER INSTITUTIONS

Regional/Competitor:

Harvard University

Boston University

Tufts University

Dartmouth College

University of Vermont

Brown University

State University of New York, Stonybrook

University of Maryland - Baltimore

Public Aspirant:

University of Texas, SW

University of Iowa

University of North Carolina at Chapel Hill

University of Alabama, Birmingham

University of Michigan - Ann Arbor

University of Washington - Seattle

University of California, San Francisco

Private Aspirant:

Washington University in St. Louis

Johns Hopkins University

Yale University

University of Pennsylvania

University of Pittsburgh - Pittsburgh

UMass Amherst - Clery Act Crime Statistics

ENROLLMENTS/NUMBER OF RESIDENTS	Fall 2017		Fall 2016		Fall 2015	
	Total Enrollment	# Living on Campus	Total Enrollment	# Living on Campus	Total Enrollment	# Living on Campus
UNDERGRADUATE STUDENTS	23,388	13,181	23,373	13,281	22,748	13,334
GRADUATE STUDENTS	6,952	96	6,664	112	6,521	105
Calendar Year						
OFFENSE	2017	2016	2015			
MURDER / NON-NEGLIGENT MANSLAUGHTER	0	0	0			
NEGLIGENT MANSLAUGHTER	0	0	0			
RAPE	18	20	17			
FONDLING	3	6	5			
INCEST	0	0	0			
STATUTORY RAPE	0	0	0			
ROBBERY	0	3	0			
AGGRAVATED ASSAULT	5	11	7			
BURGLARY	14	18	9			
MOTOR VEHICLE THEFT	4	1	1			
ARSON	1	4	5			
DOMESTIC VIOLENCE***	8	11	7			
DATING VIOLENCE***	0	0	0			
STALKING***	2	4	4			
HATE CRIMES <i>Any of the aforementioned offenses, and other crime involving bodily injury, that manifest evidence of prejudice based on race, religion, sexual orientation, gender, disability or ethnicity are also reported as hate crimes.</i>	2	3	1			
LIQUOR LAW ARRESTS**	143	92	162			
LIQUOR LAW VIOLATIONS REFERRED FOR DISCIPLINARY ACTION	196	216	323			
DRUG LAW ARRESTS**	11	7	13			
DRUG LAW VIOLATIONS REFERRED FOR DISCIPLINARY ACTION	6	11	1			
ILLEGAL WEAPONS POSSESSION ARRESTS	0	1	1			
ILLEGAL WEAPONS POSSESSION VIOLATIONS REFERRED FOR DISCIPLINARY ACTION	0	2	0			

Note: Total count for each category includes crimes that occurred on campus, in or on a non-campus building or property, or on public property.

*Forcible Sex Offenses include those reported to UMPD and those reported to other Campus agencies.

**UMPD arrests involving both drug law and liquor law violations are counted only as a drug law violation, which is the more serious offense

UMass Boston - Clery Act Crime Statistics

ENROLLMENTS/NUMBER OF RESIDENTS	Fall 2017		Fall 2016		Fall 2015	
	Total Enrollment	# Living on Campus	Total Enrollment	# Living on Campus	Total Enrollment	# Living on Campus
UNDERGRADUATE STUDENTS	12,660	0	12,847	0	12,949	0
GRADUATE STUDENTS	3,755	0	4,000	0	4,081	0
Calendar Year						
OFFENSE	2017	2016	2015			
MURDER / NON NEGLIGENT MANSLAUGHTER	0	0	0			
NEGLIGENT MANSLAUGHTER	0	0	0			
RAPE	1	0	2			
FONDLING	0	0	0			
INCEST	0	0	0			
STATUTORY RAPE	0	0	0			
ROBBERY	0	0	0			
AGGRAVATED ASSAULT	2	2	6			
BURGLARY	0	2	0			
MOTOR VEHICLE THEFT	0	0	0			
ARSON	0	0	0			
DOMESTIC VIOLENCE*	0	2	5			
DATING VIOLENCE*	0	1	0			
STALKING*	8	7	7			
HATE CRIMES <i>Any of the aforementioned offenses, and other crime involving bodily injury, that manifest evidence of prejudice based on race, religion, sexual orientation, gender, disability or ethnicity are also reported as hate crimes.</i>	0	0	2			
LIQUOR LAW ARRESTS	0	0	0			
LIQUOR LAW VIOLATIONS REFERRED FOR DISCIPLINARY ACTION	0	0	2			
DRUG LAW ARRESTS	3	8	9			
DRUG LAW VIOLATIONS REFERRED FOR DISCIPLINARY ACTION	0	0	1			
ILLEGAL WEAPONS POSSESSION ARRESTS	0	3	3			
ILLEGAL WEAPONS POSSESSION VIOLATIONS REFERRED FOR DISCIPLINARY ACTION	0	0	0			

Note: Total count for each category includes crimes that occurred on campus, in or on a non-campus building or property, or on public property within or immediately adjacent to and accessible from the campus. UMB campus does not have residence halls.

UMass Dartmouth - Clery Act Crime Statistics

ENROLLMENTS/NUMBER OF RESIDENTS	Fall 2017		Fall 2016		Fall 2015	
	Total Enrollment	# Living on Campus	Total Enrollment	# Living on Campus	Total Enrollment	# Living on Campus
UNDERGRADUATE STUDENTS	6,763	3,538	6,999	3,773	7,295	4,073
GRADUATE STUDENTS	1,643	76	1,648	98	1,621	95

Calendar Year

OFFENSE	2017	2016	2015
MURDER / NON-NEGLIGENT MANSLAUGHTER	0	0	0
NEGLIGENT MANSLAUGHTER	0	0	0
RAPE	1	11	8
FONDLING	4	5	4
INCEST	0	0	0
STATUTORY RAPE	0	0	0
ROBBERY	5	0	0
AGGRAVATED ASSAULT	10	3	5
BURGLARY	11	5	7
MOTOR VEHICLE THEFT	0	4	1
ARSON	0	3	6
DOMESTIC VIOLENCE*	15	8	7
DATING VIOLENCE*	0	0	0
STALKING*	6	3	3
HATE CRIMES <i>Any of the aforementioned offenses, and other crime involving bodily injury, that manifest evidence of prejudice based on race, religion, sexual orientation, gender, disability or ethnicity are also reported as hate crimes.</i>	0	0	0
LIQUOR LAW ARRESTS	4	19	67
LIQUOR LAW VIOLATIONS REFERRED FOR DISCIPLINARY ACTION	161	180	289
DRUG LAW ARRESTS	1	1	5
DRUG LAW VIOLATIONS REFERRED FOR DISCIPLINARY ACTION	1	3	120
ILLEGAL WEAPONS POSSESSION ARRESTS	1	1	0
ILLEGAL WEAPONS POSSESSION VIOLATIONS REFERRED FOR DISCIPLINARY ACTION	0	0	4

Note: Total count for each category includes crimes that occurred on campus, in or on a non-campus building or property, or on public property adjacent to and accessible from the campus.

UMass Lowell - Clery Act Crime Statistics

ENROLLMENTS/NUMBER OF RESIDENTS	Fall 2017		Fall 2016		Fall 2015	
	Total Enrollment	# Living on Campus	Total Enrollment	# Living on Campus	Total Enrollment	# Living on Campus
UNDERGRADUATE STUDENTS	14,013	3,632	13,642	4,105	13,266	4,083
GRADUATE STUDENTS	4,303	37	4,215	50	4,184	47
Calendar Year						
OFFENSE	2017	2016	2015			
MURDER / NON-NEGLIGENT MANSLAUGHTER	0	0	0			
NEGLIGENT MANSLAUGHTER	0	0	0			
RAPE	4	4	6			
FONDLING	4	6	2			
INCEST	0	0	0			
STATUTORY RAPE	0	0	0			
ROBBERY	5	2	1			
AGGRAVATED ASSAULT	2	7	2			
BURGLARY	2	6	11			
MOTOR VEHICLE THEFT	3	3	1			
ARSON	0	0	2			
DOMESTIC VIOLENCE*	3	6	2			
DATING VIOLENCE*	0	0	1			
STALKING*	7	1	1			
HATE CRIMES <i>Any of the aforementioned offenses, and other crime involving bodily injury, that manifest evidence of prejudice based on race, religion, sexual orientation, gender, disability or ethnicity are also reported as hate crimes.</i>	0	0	0			
LIQUOR LAW ARRESTS	0	3	6			
LIQUOR LAW VIOLATIONS REFERRED FOR DISCIPLINARY ACTION	217	216	357			
DRUG LAW ARRESTS	5	3	7			
DRUG LAW VIOLATIONS REFERRED FOR DISCIPLINARY ACTION	1	3	16			
ILLEGAL WEAPONS POSSESSION ARRESTS	1	1	3			
ILLEGAL WEAPONS POSSESSION VIOLATIONS REFERRED FOR DISCIPLINARY ACTION	1	1	4			

Note: Total count for each category includes crimes that occurred on campus, in or on a non-campus building or property, or on public property w adjacent to and accessible from the campus.

UMass Medical School - Clery Act Crime Statistics

ENROLLMENTS/NUMBER OF RESIDENTS	Fall 2017		Fall 2016		Fall 2015	
	Total Enrollment	# Living on Campus	Total Enrollment	# Living on Campus	Total Enrollment	# Living on Campus
UNDERGRADUATE STUDENTS	0	0	0	0	0	0
GRADUATE STUDENTS	1,095	0	1,108	0	1,079	0

Calendar Year

OFFENSE	2017	2016	2015
MURDER / NON-NEGLIGENT MANSLAUGHTER	0	0	0
NEGLIGENT MANSLAUGHTER	0	0	0
RAPE	1	0	0
FONDLING	1	4	1
INCEST	0	0	0
STATUTORY RAPE	0	0	0
ROBBERY	0	0	0
AGGRAVATED ASSAULT	3	0	3
BURGLARY	2	2	7
MOTOR VEHICLE THEFT	1	4	1
ARSON	0	0	0
DOMESTIC VIOLENCE*	3	8	3
DATING VIOLENCE*	0	0	0
STALKING*	4	0	0
HATE CRIMES <i>Any of the aforementioned offenses, and other crime involving bodily injury, that manifest evidence of prejudice based on race, religion, sexual orientation, gender, disability or ethnicity are also reported as hate crimes.</i>	0	0	0
LIQUOR LAW ARRESTS	0	0	0
LIQUOR LAW VIOLATIONS REFERRED FOR DISCIPLINARY ACTION	0	0	0
DRUG LAW ARRESTS	16	19	13
DRUG LAW VIOLATIONS REFERRED FOR DISCIPLINARY ACTION	0	0	0
ILLEGAL WEAPONS POSSESSION ARRESTS	1	0	1
ILLEGAL WEAPONS POSSESSION VIOLATIONS REFERRED FOR DISCIPLINARY ACTION	0	0	0

Note: Total count for each category includes crimes that occurred on campus, in or on a non-campus building or property, or on public property within or immediately adjacent to and accessible from the campus. UMW campus does not have residence halls.