

# USM - University of Maryland Baltimore County

## MISSION

University of Maryland Baltimore County (UMBC) is a dynamic public research university integrating teaching, research, and service to benefit the citizens of Maryland. As an Honors University, the campus offers academically talented students a strong undergraduate liberal arts foundation that prepares them for graduate and professional study, entry into the workforce, and community service and leadership. UMBC emphasizes science, engineering, information technology, human services, and public policy at the graduate level. UMBC contributes to the economic development of the State and the region through entrepreneurial initiatives, workforce training, K-16 partnerships, and technology commercialization in collaboration with public agencies and the corporate community. UMBC is dedicated to cultural and ethnic diversity, social responsibility, and lifelong learning.

## VISION

An Honors University in Maryland, UMBC will be one of the nation's best public research universities of its size as it combines the traditions of the liberal arts academy, the creative intensity of the research university, and the social responsibility of the public university. UMBC will be known for integrating research, teaching and learning, and civic engagement so that each advances the others for the benefit of society.

## KEY GOALS, OBJECTIVES, AND PERFORMANCE MEASURES

### Goal 1. Prepare students for work and/or graduate/professional school.

- Obj. 1.1** Increase the employment rate of UMBC graduates from 84.5 percent in Survey Year 2017 to 85 percent in Survey Year 2020.
- Obj. 1.2** Increase the percentage of bachelor's degree recipients satisfied with the preparation for employment from 82.9 percent in Survey Year 2017 to 90 percent in Survey Year 2020.
- Obj. 1.3** Maintain the graduate/professional school-going rate for UMBC's bachelor's degree recipients at 40 percent or higher.
- Obj. 1.4** Maintain the percentage of bachelor's degree recipients satisfied with the preparation for graduate/professional school at 95 percent or higher.
- Obj. 1.5** Increase the percent of UMBC's bachelor's degree recipients employed and/or going to graduate/professional school from 91 percent in Survey Year 2017 to 95 percent in Survey Year 2020.

Performance Measures (Triennial Measures)	2015 Act.	2016 Act.	2017 Act.	2018 Act.	2019 Act.	2020 Est.	2021 Est.
Employment rate of graduates	N/A	N/A	84.5%	N/A	N/A	85.0%	N/A
Percent of bachelor's degree recipients satisfied with education received for employment	N/A	N/A	82.9%	N/A	N/A	90.0%	N/A
Graduate/professional school-going rate of bachelor's degree recipients within one year of graduation	N/A	N/A	34.9%	N/A	N/A	40.0%	N/A
Graduate/professional school-going rate of African-American bachelor's degree recipients within one year of graduation	N/A	N/A	46.2%	N/A	N/A	40.0%	N/A
Percent of bachelor's degree recipients satisfied with education received for graduate/professional school	N/A	N/A	94.6%	N/A	N/A	95.0%	N/A
Percent of bachelor's degree recipients employed and/or going to graduate/professional school within one year of graduation	N/A	N/A	91.0%	N/A	N/A	95.0%	N/A
Percent of African-American bachelor's degree recipients employed and/or going to graduate/professional school within one year of graduation	N/A	N/A	92.3%	N/A	N/A	95.0%	N/A

R30B31

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# USM - University of Maryland Baltimore County

## Goal 2. Increase the estimated number of UMBC graduates in key State workforce areas.

- Obj. 2.1** Increase the number of students completing teacher training at UMBC and available to be hired by Maryland public schools from 75 in fiscal year 2014 to 100 in fiscal year 2019.
- Obj. 2.2** Increase the estimated number of UMBC bachelor's degree recipients in science, technology, engineering, mathematics (STEM) fields - areas that are key to success in the knowledge economy for the State of Maryland - from 997 in fiscal year 2014 to 1,125 in fiscal year 2019.

Performance Measures	2015 Act.	2016 Act.	2017 Act.	2018 Act.	2019 Act.	2020 Est.	2021 Est.
Number of undergraduates in teacher training programs	220	198	187	179	115	120	120
Number of post-bachelor's students in teacher training programs	240	147	135	161	108	110	110
Number of undergraduates completing teacher training program	46	35	31	34	26	27	27
Number of post-bachelor's students completing teacher training program	56	39	42	36	38	40	40
Percent of undergraduate teacher candidates passing Praxis II or National Teachers Examination (NTE)	100%	100%	100%	100%	100%	100%	100%
Percent of post-bachelor's teacher candidates passing Praxis II or NTE	100%	100%	100%	100%	100%	100%	100%
Number of undergraduates enrolled in STEM programs	6,212	6,315	6,272	6,438	6,708	6,658	6,675
Number of baccalaureate graduates of STEM programs	1,106	1,224	1,235	1,333	1,427	1,300	1,325
Rank in STEM bachelor's degrees awarded compared to peer institutions	2nd						

## Goal 3. Promote economic development.

- Obj. 3.1** Maintain through 2019 the number of companies graduating from UMBC incubator programs each year at four or more.
- Obj. 3.2** Increase the number of jobs created through UMBC's Technology Center and Research Park from 1,200 in fiscal year 2014 to 1,300 in fiscal year 2019.
- Obj. 3.3** Increase the three-year average of invention disclosures reported by UMBC's Office of Technology Development from 27.33 in fiscal year 2014 to 28 in fiscal year 2019.

Performance Measures	2015 Act.	2016 Act.	2017 Act.	2018 Act.	2019 Act.	2020 Est.	2021 Est.
Companies graduating from UMBC incubator programs	5	9	18	20	11	8	8
Number of jobs created by UMBC's Technology Center and Research Park	1,200	1,412	1,440	1,450	1,460	1,470	1,480
Three-year average number of invention disclosures	26.33	30.33	25.33	27.33	28	30.33	30.33

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## Goal 4. Enhance access and success of minority students.

**Obj. 4.1** Increase the percentage of African-American undergraduate students from 15.8 percent in fiscal year 2014 to 17.5 percent in fiscal year 2019.

**Obj. 4.2** Maintain a retention rate of African-American students at 90 percent or greater through fiscal year 2019.

**Obj. 4.3** Increase the graduation rate of African-American students from 67.3 percent in fiscal year 2014 to 70 percent in fiscal year 2019.

Performance Measures	2015 Act.	2016 Act.	2017 Act.	2018 Act.	2019 Act.	2020 Est.	2021 Est.
Percent African-American of undergraduate students enrolled	16.4%	17.1%	17.4%	18.0%	18.2%	19.0%	19.2%
Percent minority of undergraduate students enrolled	46.3%	47.7%	49.3%	51.6%	52.9%	54.4%	54.5%
Second-year retention rate at UMBC (or another public university in Maryland) of African-American students	94.5%	93.8%	87.6%	90.0%	87.2%	90.0%	90.0%
Six-year graduation rate of African-American students from UMBC (or another public university in Maryland)	61.2%	67.7%	61.9%	61.2%	65.9%	70.0%	70.0%

## Goal 5. Enhance success of all students.

**Obj. 5.1** Maintain a retention rate of UMBC undergraduate students at 90 percent or greater through fiscal year 2019.

**Obj. 5.2** Increase the graduation rate of UMBC undergraduates from 68.8 percent in fiscal year 2014 to 70 percent in fiscal year 2019.

**Obj. 5.3** Maintain at least 100 Ph.D. degrees awarded through fiscal year 2019.

Performance Measures	2015 Act.	2016 Act.	2017 Act.	2018 Act.	2019 Act.	2020 Est.	2021 Est.
Ratio of full-time equivalent students to full-time instructional faculty	22.9	22.4	21.9	21.4	21.9	22.5	22.0
Second-year retention rate at UMBC (or another public university in Maryland) of students	91.0%	89.5%	87.1%	87.3%	86.5%	90.0%	90.0%
Rank among peer institutions in ratio of full-time equivalent students to full-time instructional faculty	9th	5th	5th	6th	4th	5th	5th
Six-year graduation rate of students from UMBC (or another public university in Maryland)	66.9%	66.7%	68.2%	66.4%	71.0%	70.0%	70.0%
Number of Ph.D. degrees awarded	100	82	88	94	81	90	90

## Goal 6. Provide quality research.

**Obj. 6.1** Increase the dollars in total Federal research and development (R&D) expenditures in Science and Engineering (S&E) per full-time faculty from \$110,900 in fiscal year 2014 to \$135,000 in fiscal year 2019.

**Obj. 6.2** Rank in the top half among public research peer institutions (10th in 2015) in average annual growth rate (5-year) in federal research and development (R&D) expenditures.

Performance Measures	2015 Act.	2016 Act.	2017 Act.	2018 Act.	2019 Act.	2020 Est.	2021 Est.
Total federal R&D expenditures in S&E per full-time faculty	\$117,483	\$114,954	\$120,871	\$123,242	\$124,551	\$131,000	\$133,700
Rank among public research peer institutions in five-year average growth rate in federal R&D expenditure	10th	9th	8th	9th	3rd	5th	5th

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