

# UNIVERSITY SYSTEM OF MARYLAND

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## RB31.00 UNIVERSITY OF MARYLAND BALTIMORE COUNTY

### PROGRAM DESCRIPTION

The University of Maryland Baltimore County (UMBC) offers undergraduate, master's and doctoral programs in the arts and sciences and engineering. Within a strong interdisciplinary framework, UMBC programs link the cultures of the sciences, social sciences, visual and performing arts and humanities, and the professions.

### MISSION

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 AND OBJECTIVES

**Goal 1:** Create and maintain a well-educated work force

**Objective 1.1** Increase the estimated number of UMBC graduates employed in Maryland from 1,142 in Survey Year 1997 to 1,432 in Survey Year 2004.

		<b>2002</b>	<b>2003</b>	<b>2004</b>	<b>2005</b>
		<b>Actual</b>	<b>Actual</b>	<b>Estimated</b>	<b>Estimated</b>
<b>Performance Measures</b>					
<b>Input</b>	Total undergraduate enrollment	9,328	9,549	9,646	9,561
<b>Output</b>	Total bachelor's degree recipients	1,570	1,729	1,750	1,750
		<b>2002</b>	<b>2003</b>	<b>2004</b>	<b>2005</b>
		<b>Actual</b>	<b>Actual</b>	<b>Estimated</b>	<b>Estimated</b>
		<b>2000 Survey</b>	<b>2001 Survey</b>	<b>2002 Survey</b>	<b>2004 Survey</b>
<b>Performance Measures</b>		<b>Actual</b>	<b>Actual</b>	<b>Actual</b>	<b>Estimate</b>
<b>Outcome</b>	Employment rate of graduates	85%	80% <sup>2</sup>	81%	86%
<b>Outcome</b>	Number of graduates employed in Maryland	1,197	1,245 <sup>2</sup>	1,269	1,432

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**Objective 1.2** Increase the number of UMBC graduates hired by MD public schools from 74 in FY 2000 to 115 in FY 2004.

		<b>2002</b>	<b>2003</b>	<b>2004</b>	<b>2005</b>
<b>Performance Measures</b>		<b>Actual</b>	<b>Actual</b>	<b>Estimated</b>	<b>Estimated</b>
<b>Input</b>	Number of undergraduates in teacher training programs	346	324	350	360
<b>Input</b>	Number of post-bach students in teacher training programs	548	560	575	585
<b>Output</b>	Number of undergrad students completing teacher training program	67	51 <sup>4</sup>	65	70
<b>Output</b>	Number of post bach students completing teacher training program	106	105 <sup>4</sup>	110	120
<b>Quality</b>	Percent of undergraduate teacher candidates passing Praxis II or NTE	83%	100% <sup>4</sup>	100%	100%
<b>Quality</b>	Percent of post-bach teacher candidates passing Praxis II or NTE	93%	100% <sup>4</sup>	100%	100%
<b>Outcome</b>	Number of students who completed all teacher education requirements and who are employed in Maryland public schools	99	79	100	110

**Objective 1.3** Increase the estimated number of UMBC graduates of IT programs employed in Maryland from 233 in Survey Year 1997 to 350 in Survey Year 2004.

		<b>2002</b>	<b>2003</b>	<b>2004</b>	<b>2005</b>
<b>Performance Measures</b>		<b>Actual</b>	<b>Actual</b>	<b>Estimated</b>	<b>Estimated</b>
<b>Input</b>	Number of undergraduates enrolled in IT programs	2,750	2,697	2,272	2,000
<b>Output</b>	Number of baccalaureate graduates of IT programs	457	537	550	600
<b>Performance Measures</b>		<b>2002</b>	<b>2003</b>	<b>2004</b>	<b>2005</b>
		<b>Actual</b>	<b>Actual</b>	<b>Estimated</b>	<b>Estimated</b>
<b>Performance Measures</b>		<b>2000 Survey</b>	<b>2001 Survey</b>	<b>2002 Survey</b>	<b>2004 Survey</b>
		<b>Actual</b>	<b>Actual</b>	<b>Actual</b>	<b>Estimate</b>
<b>Outcome</b>	Number of IT graduates employed in Maryland	283	319	351	350

**Objective 1.4** Maintain 100% satisfaction of employers with UMBC graduates

		<b>2002</b>	<b>2003</b>	<b>2004</b>	<b>2005</b>
<b>Performance Measures</b>		<b>Actual</b>	<b>Actual</b>	<b>Estimated</b>	<b>Estimated</b>
		<b>2000 Survey</b>	<b>2001 Survey</b>	<b>2002 Survey</b>	<b>2004 Survey</b>
		<b>Actual</b>	<b>Actual</b>	<b>Actual</b>	<b>Estimate</b>
<b>Outcome</b>	Average employer's satisfaction with UMBC graduates <sup>3</sup>	N/A	100%	N/A	N/A

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**Objective 1.5** Increase the number of students enrolled in UMBC programs delivered off campus or through distance education from 220 in FY 1998 to 1,000 in FY 2004.

<b>Performance Measures</b>		<b>2002</b>	<b>2003</b>	<b>2004</b>	<b>2005</b>
		<b>Actual</b>	<b>Actual</b>	<b>Estimated</b>	<b>Estimated</b>
<b>Input</b>	Number of students enrolled in distance education courses	967	1568	1750	1900

**Objective 1.6** Maintain UMBC's rank in number of IT bachelor's degrees awarded as 1<sup>st</sup> among public research peer institutions.

<b>Performance Measures</b>		<b>2002</b>	<b>2003</b>	<b>2004</b>	<b>2005</b>
		<b>Actual</b>	<b>Actual</b>	<b>Estimated</b>	<b>Estimated</b>
<b>Quality</b>	Rank in IT bachelor's degrees awarded	1 <sup>st</sup>	1 <sup>st</sup>	1 <sup>st</sup>	1 <sup>st</sup>

**Goal 2:** Promote economic development

**Objective 2.1** Increase the ratio of median UMBC graduates' salary to the median annual salary of civilian work force with a bachelor's degree from .86 for the 1998 Survey Year to .88 for the 2004 Survey Year.

<b>Performance Measures</b>		<b>2002</b>	<b>2003</b>	<b>2004</b>	<b>2005</b>
		<b>Actual</b>	<b>Actual</b>	<b>Estimated</b>	<b>Estimated</b>
		<b>2000 Survey</b>	<b>2001 Survey</b>	<b>2002 Survey</b>	<b>2004 Survey</b>
		<b>Actual</b>	<b>Actual</b>	<b>Actual</b>	<b>Estimate</b>
<b>Outcome</b>	Median salary of UMBC graduates	\$32,500	\$40,000	\$32,500	>\$35,000
<b>Outcome</b>	Ratio of median salary of UMBC graduates to civilian workforce with bachelor's degree	.86	1.05 <sup>2</sup>	.86	.88

**Objective 2.2** Maintain the number of companies graduating from UMBC incubator programs from 3 in FY 1998 to 3 in FY 2004.

<b>Performance Measures</b>		<b>2002</b>	<b>2003</b>	<b>2004</b>	<b>2005</b>
		<b>Actual</b>	<b>Actual</b>	<b>Estimated</b>	<b>Estimated</b>
<b>Outcome</b>	Number of companies graduating from incubator programs	2	2	2	3

**Objective 2.3** Increase number of jobs created through UMBC's Technology Center and Research Park from 182 in FY 1998 to 500 in FY 2004

<b>Performance Measures</b>		<b>2002</b>	<b>2003</b>	<b>2004</b>	<b>2005</b>
		<b>Actual</b>	<b>Actual</b>	<b>Estimated</b>	<b>Estimated</b>
<b>Output</b>	Number of jobs created by UMBC's Technology Center and Research Park	370	461	475	500

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**Objective 2.4** Maintain through FY2004 UMBC's rank of top 20% among public research peer institutions in the ratio of number of invention disclosures per \$million R&D expenditures

		2002	2003	2004	2005
<b>Performance Measures</b>		<b>Actual</b>	<b>Actual</b>	<b>Estimated</b>	<b>Estimated</b>
<b>Quality</b>	Rank in ratio of invention disclosures to \$million in R&D expenditures	Top 20%	Top 20%	Top 20%	Top 20%

**Goal 3:** Increase access for economically disadvantaged and minority students.

**Objective 3.1** Increase the % of minority undergraduate students from 33.0% in FY 1998 to 39.0% in FY 2004.

		2002	2003	2004	2005
<b>Performance Measures</b>		<b>Actual</b>	<b>Actual</b>	<b>Estimated</b>	<b>Estimated</b>
<b>Input</b>	% minority of undergraduate students enrolled	37.4%	37.2%	37.8%	38.0%

**Objective 3.2** Increase the % of African-American undergraduate students from 16.0% in FY 1998 to 18.0% in FY 2004.

		2002	2003	2004	2005
<b>Performance Measures</b>		<b>Actual</b>	<b>Actual</b>	<b>Estimated</b>	<b>Estimated</b>
<b>Input</b>	% African-American of undergraduate students enrolled	16.1%	15.6%	15.0%	15.0%

**Objective 3.3** By FY 2004, maintain a retention rate for minority students of 85% or greater.

		2002	2003	2004	2005
<b>Performance Measures</b>		<b>Actual</b>	<b>Actual</b>	<b>Estimated</b>	<b>Estimated</b>
<b>Output</b>	Second year retention rate of minority students	85.4%	90.2%	86%	86%

**Objective 3.4** Increase the retention rate of African-American students from 88.3% in FY 1998 to 90% or greater in FY 2004.

		2002	2003	2004	2005
<b>Performance Measures</b>		<b>Actual</b>	<b>Actual</b>	<b>Estimated</b>	<b>Estimated</b>
<b>Output</b>	Second year retention rate of African-American students	89.8%	87.3%	89%	90%

**Objective 3.5** Increase the graduation rate of minority students from 52.4% in FY 1998 to 65.0% in FY 2004.

		2002	2003	2004	2005
<b>Performance Measures</b>		<b>Actual</b>	<b>Actual</b>	<b>Estimated</b>	<b>Estimated</b>
<b>Output</b>	Graduation rate of minority students	62.3%	62.0%	63%	64%

**Objective 3.6** Increase the graduation rate of African-American students from 58.5% in FY 1998 to 65.0% in FY 2004.

		2002	2003	2004	2005
<b>Performance Measures</b>		<b>Actual</b>	<b>Actual</b>	<b>Estimated</b>	<b>Estimated</b>
<b>Output</b>	Graduation rate of African-American students	61.7%	58.6%	60%	60%

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**Objective 3.7** By FY 2004, maintain the % of economically disadvantaged students at 60% or greater, a level sustained annually since at least FY 1998.

<b>Performance Measures</b>	<b>2002</b>	<b>2003</b>	<b>2004</b>	<b>2005</b>
<b>Input</b>	<b>Actual</b>	<b>Actual</b>	<b>Estimated</b>	<b>Estimated</b>
% of economically disadvantaged students	67.0%	66.4%	65%	65%

**Objective 3.8** Maintain the graduate/professional school-going rate for UMBC's African-American bachelor's degree recipients of 49%

<b>Performance Measures</b>	<b>2002</b>	<b>2003</b>	<b>2004</b>	<b>2005</b>
<b>Outcome</b>	<b>Actual</b>	<b>Actual</b>	<b>Estimated</b>	<b>Estimated</b>
	<b>2000 Survey</b>	<b>2001 Survey</b>	<b>2002 Survey</b>	<b>2004 Survey</b>
	<b>Actual</b>	<b>Actual</b>	<b>Actual</b>	<b>Estimate</b>
Graduate/professional school-going rate of African-American bachelor's degree recipients within one year of graduation	49%	40% <sup>2</sup>	35%	40%

**Goal 4:** Achieve and sustain national eminence in providing quality education, research and public service

**Objective 4.1** Increase retention rate of UMBC undergraduates from 82.9% in FY 1998 to 85% or greater in FY 2004.

<b>Performance Measures</b>	<b>2002</b>	<b>2003</b>	<b>2004</b>	<b>2005</b>
<b>Output</b>	<b>Actual</b>	<b>Actual</b>	<b>Estimated</b>	<b>Estimated</b>
Second year retention rate of students	82.4%	87.5%	85%	85%

**Objective 4.2** Increase graduation rate of UMBC undergraduates from 54.2% in FY 1998 to 65.0% in FY 2004.

<b>Performance Measures</b>	<b>2002</b>	<b>2003</b>	<b>2004</b>	<b>2005</b>
<b>Output</b>	<b>Actual</b>	<b>Actual</b>	<b>Estimated</b>	<b>Estimated</b>
Six year graduation rate of students	59.5%	58.4%	59%	60%

**Objective 4.3** Increase number of faculty receiving prestigious awards and recognition from 3 in FY 1999 to 6 in FY 2004.

<b>Performance Measures</b>	<b>2002</b>	<b>2003</b>	<b>2004</b>	<b>2005</b>
<b>Quality</b>	<b>Actual</b>	<b>Actual</b>	<b>Estimated</b>	<b>Estimated</b>
Number of faculty receiving prestigious awards and recognition	4.0	3.0	4.0	5.0

**Objective 4.4** Increase total research and development expenditures as reported by the National Science Foundation from \$18.2 million in FY 1998 to \$42.0 million in FY 2004.

<b>Performance Measures</b>	<b>2002</b>	<b>2003</b>	<b>2004</b>	<b>2005</b>
<b>Output</b>	<b>Actual</b>	<b>Actual</b>	<b>Estimated</b>	<b>Estimated</b>
Total R&D expenditures	\$29.6	\$36.3	\$39.3	\$42.0

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**Objective 4.5** By FY 2004 maintain the level of student satisfaction with education received for employment at 93% or greater.

		<b>2002</b>	<b>2003</b>	<b>2004</b>	<b>2005</b>
		<b>Actual</b>	<b>Actual</b>	<b>Estimated</b>	<b>Estimated</b>
		<b>2000 Survey</b>	<b>2001 Survey</b>	<b>2002 Survey</b>	<b>2004 Survey</b>
<b>Performance Measures</b>		<b>Actual</b>	<b>Actual</b>	<b>Actual</b>	<b>Estimate</b>
<b>Quality</b>	% of students satisfied with education received for employment	97%	92% <sup>2</sup>	89%	92%

**Objective 4.6** By 2004 Survey Year, maintain the level of student satisfaction with education received for graduate/professional school at 95% or greater.

		<b>2002</b>	<b>2003</b>	<b>2004</b>	<b>2005</b>
		<b>Actual</b>	<b>Actual</b>	<b>Estimated</b>	<b>Estimated</b>
		<b>2000 Survey</b>	<b>2001 Survey</b>	<b>2002 Survey</b>	<b>2004 Survey</b>
<b>Performance Measures</b>		<b>Actual</b>	<b>Actual</b>	<b>Actual</b>	<b>Estimate</b>
<b>Quality</b>	% of students satisfied with education received for graduate/professional school	99%	97% <sup>2</sup>	99%	>95%

**Objective 4.7** Increase the graduate/professional school-going rate for UMBC's bachelor's degree recipients from 35% in Survey Year 1997 to 38% in Survey Year 2004.

		<b>2002</b>	<b>2003</b>	<b>2004</b>	<b>2005</b>
		<b>Actual</b>	<b>Actual</b>	<b>Estimated</b>	<b>Estimated</b>
		<b>2000 Survey</b>	<b>2001 Survey</b>	<b>2002 Survey</b>	<b>2004 Survey</b>
<b>Performance Measures</b>		<b>Actual</b>	<b>Actual</b>	<b>Actual</b>	<b>Estimate</b>
<b>Outcome</b>	Graduate/professional school-going rate of bachelor's degree recipients within one year of graduation	35%	29% <sup>2</sup>	39%	38%

**Objective 4.8** Maintain UMBC's rank (1<sup>st</sup> in FY 1999) among public research peer universities in Median SAT of the freshman class.

		<b>2002</b>	<b>2003</b>	<b>2004</b>	<b>2005</b>
		<b>Actual</b>	<b>Actual</b>	<b>Estimated</b>	<b>Estimated</b>
<b>Input</b>	SAT of Freshman Class: 25 <sup>th</sup> percentile	1110	1120	1130	1140
<b>Input</b>	SAT of Freshman Class: 75 <sup>th</sup> percentile	1280	1290	1300	1310
<b>Input</b>	SAT of Freshman Class: Median	1195	1205	1215	1225
<b>Quality</b>	Rank in median SAT	1 <sup>st</sup>	1 <sup>st</sup>	1 <sup>st</sup>	1 <sup>st</sup>

**Objective 4.9** Increase the dollars in total R&D expenditures per FT faculty from \$51.7 thousand in FY 1998 to \$89.0 thousand in FY 2004.

		<b>2002</b>	<b>2003</b>	<b>2004</b>	<b>2005</b>
		<b>Actual</b>	<b>Actual</b>	<b>Estimated</b>	<b>Estimated</b>
<b>Output</b>	Total R&D expenditures per FT faculty	\$82.1	\$99.8	\$107.7	\$113.5

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**Objective 4.10** Improve rank among public research peer institutions in average annual growth rate (5-year) in federal R&D expenditures from 3<sup>rd</sup> in FY1998 to 1<sup>st</sup> in FY2004.

		2002	2003	2004	2005
<b>Performance Measures</b>		<b>Actual</b>	<b>Actual</b>	<b>Estimated</b>	<b>Estimated</b>
<b>Output</b>	Rank in 5-year average annual growth rate in federal R&D expenditures	1 <sup>st</sup>	10/03	10/03	10/03

**Objective 4.11** Move toward public research peer institution average in ratio of FTE students to FT faculty from 24.6:1 in FY2000 to 23:1 in FY2004.

		2002	2003	2004	2005
<b>Performance Measures</b>		<b>Actual</b>	<b>Actual</b>	<b>Estimated</b>	<b>Estimated</b>
<b>Input</b>	Ratio of FTE students to FT faculty	25.8:1	25.3:1	25:1	24.5:1

**Goal 5:** Increase revenue from alternative sources to state appropriations.

**Objective 5.1** Maintain at least a 2% rate of operating budget savings through efficiency and cost containment measures.

		2002	2003	2004	2005
<b>Performance Measures</b>		<b>Actual</b>	<b>Actual</b>	<b>Estimated</b>	<b>Estimated</b>
<b>Efficiency</b>	% rate of operating budget savings	4%	5%	1%	1%

**Objective 5.2** Increase the average alumni giving rate from 10% in FY 1998 to 11% in FY 2004.

		2002	2003	2004	2005
<b>Performance Measures</b>		<b>Actual</b>	<b>Actual</b>	<b>Estimated</b>	<b>Estimated</b>
<b>Input</b>	% of solicited UMBC alumni who donated money to the campus	7.8%	7.3%	8.0%	8.0%

**Objective 5.3** Increase UMBC's endowment from \$8.8 million in FY 1998 to \$20.0 million in FY 2004

		2002	2003	2004	2005
<b>Performance Measures</b>		<b>Actual</b>	<b>Actual</b>	<b>Estimated</b>	<b>Estimated</b>
<b>Input</b>	Endowment dollars	\$17.9	\$18.1	\$20.0	\$22.0

**Goal 6:** Maximize the efficient and effective use of state resources.

**Objective 6.1** Allocate expenditures on facility renewal to meet 2% target by FY 2004 from .8% in FY 1998.

		2002	2003	2004	2005
<b>Performance Measures</b>		<b>Actual</b>	<b>Actual</b>	<b>Estimated</b>	<b>Estimated</b>
<b>Efficiency</b>	% of replacement cost expended in facility renewal and renovation	.8%	1.2%	.5%	.6%

Notes: NA = data not available

<sup>1</sup>FY 2003 actual data to be supplied by date indicated.

<sup>2</sup>The 2001 survey of alumni was sponsored by USM and conducted via telephone by the University of Baltimore Schaeffer Center. The survey was conducted earlier in the year compared with previous surveys, which were typically conducted in early to mid-summer, likely influencing responses regarding employment and graduate school enrollments and/or plans.

<sup>3</sup>Questions related to employers' satisfaction with UMBC alumni were included only on the 2001 USM-sponsored telephone survey

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of alumni. Such questions are not included on any of the MHEC-sponsored Alumni Follow Up Surveys carried out in 1997, 1998, 2000, and 2002.

<sup>4</sup>Starting in FY03, UMBC's teacher preparation program required passing grades on appropriate Praxis I and II exams to be considered program completers.