



ENROLLMENT PROJECTIONS

2013 – 2022

MARYLAND PUBLIC COLLEGES AND UNIVERSITIES

June 2013

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MARYLAND HIGHER EDUCATION COMMISSION
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2013-2022
Maryland Public Colleges and Universities**

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ENROLLMENT PROJECTIONS - MARYLAND PUBLIC COLLEGES AND UNIVERSITIES

The Maryland Higher Education Commission has prepared enrollment projections for the public colleges and universities in the State through the year 2022. There are headcount projections for each higher education institution, with separate analyses for full- and part-time undergraduates and, as applicable, full- and part-time graduate/professional students. Full-time equivalent (FTE) and full-time day equivalent (FTDE) projections were calculated by applying a mathematical formula to the headcount figures. Projections also have been developed for state-eligible FTE noncredit continuing education enrollments at the community colleges.

These projections provide perspective to higher education policy discussions at the state level, including facilities planning, tuition and fees issues, articulation, funding priorities, and retention and graduation rates. The Department of Budget and Management and the General Assembly treat the Commission's analyses as the State's official enrollment projections.

The Commission used separate, but similar, methodologies for projecting credit enrollments at the community colleges and public four-year institutions. A third method was applied to produce the projections of noncredit continuing education enrollments at the community colleges. All three models involve the application of a linear regression analysis. The enrollment projections model does not account for new policy decisions or unexpected occurrences that are difficult to quantify. Historically, the models have been highly precise across all student categories at both the public two- and four-year institutions. Last year, the Commission's forecast of 318,410 students was 97.5% accurate. This is the 8th report in which it is possible to assess the performance of the projection model over a 10-year period. The Commission's 2003 projections were highly accurate for the public four-year campuses (97.0%). Largely because of the unanticipated enrollment increases that resulted from the recent economic recession, the community college projections were slightly less precise (93.5%). However, for all students enrolled at Maryland public colleges, the 10-year projections were 98.6% accurate.

Assumptions of the Projection Models

- *Credit enrollments* among Maryland residents can be predicted by applying the historical relationship between the state's population and past in-state enrollments to future population projections.
- The ratio of in-state to out-of-state students in Maryland will be relatively constant over time.
- The number of full-time undergraduates at both the community colleges and public four-year campuses will be affected by the trends in high school graduates.
- The number of full-time undergraduates at public four-year campuses will be influenced by the number of full-time students enrolling at the state's community colleges.
- Tuition increases will have an impact on full- and part-time community college enrollments.
- The number of part-time undergraduates at both the community colleges and public four-year campuses will be impacted by changes in the per capita disposable income, in constant dollars, of Maryland residents.
- *Noncredit continuing education enrollments* at community colleges can be forecasted by applying the historical relationship between the adult population 20 years of age or older in the county or service area of each two-year institution and past noncredit enrollments at each campus to future population projections.

Students were distributed among the community colleges chiefly on the basis of the recent market share, growth rate of each institution, and the anticipated change in the college-age population in each campus' county or counties. The predicted number of students for the four-year campuses was determined largely by an examination of institution-provided projections, although the recent market share and growth rate of each campus also were factors.

Highlights of the Enrollment Projections

- Total headcount enrollment at Maryland public colleges and universities is projected to be 17% higher (52,765 students) in 2022. Total enrollments are expected to increase by 19% (27,088 students) at the community colleges and by 16% (25,677 students) at the public four-year campuses by 2022.
- Currently, full-time and part-time students constitute nearly equal percentages of the undergraduate student population at Maryland institutions. However, there will be a considerable difference between the growth rates of full-time and part-time undergraduates attending community colleges and public four-year institutions over the next 10 years. At the two-year colleges, full-time students are projected to increase by 31% (15,782 students) while part-time enrollments are expected to increase by 12% (11,306 students). Conversely, at the public four-year campuses, full-time undergraduates are anticipated to increase by just 12% (10,074 students) while part-time undergraduate enrollments are estimated to rise by 26% (8,567 students). These divergent trends will result in Maryland maintaining a nearly identical ratio of full-time to part-time students through 2022.
- Graduate and professional enrollment is expected to increase by 16% (7,036 students) by 2022. The majority of this increase is expected to occur among part-time attendees. While full-time graduate enrollment is expected to increase by 6% (1,103 students), part-time enrollments are expected to increase by 22% (5,933 students).
- Like graduate enrollment, undergraduate enrollment is predicted to increase 16% by 2022 at four-year institutions. Slightly more than 18,641 additional undergraduate students are expected to be enrolled at these institutions by 2022. It is expected that over 70% of these students will attend full-time.
- At the community colleges, both FTE and FTDE enrollments are expected to increase by 21% (19,318 students for FTE and 12,370 students for FTDE) by 2022. FTE and FTDE figures are predicted to grow by 12% (15,058 students) and 7% (6,076 students), respectively, at the public four-year institutions.
- State-funded noncredit FTE continuing education enrollments at the community colleges are projected to increase by 12% to nearly 30,000 students by 2022, an increase of 3,219 students.

Projections of Headcount Enrollment at Maryland Public Four-Year Institutions

		FALL 12 FY 13 Actual	FALL 13 FY 14 Projected	FALL 14 FY 15 Projected	FALL 15 FY 16 Projected	FALL 16 FY 17 Projected	FALL 17 FY 18 Projected	FALL 18 FY 19 Projected	FALL 19 FY 20 Projected	FALL 20 FY 21 Projected	FALL 21 FY 22 Projected	FALL 22 FY 17 Projected	% Change 12-22
Bowie													
Undergraduate													
	Full-time	3,493	3,557	3,591	3,640	3,708	3,741	3,836	3,870	3,958	3,991	4,083	17%
	Part-time	790	809	866	900	922	947	978	1,007	1,035	1,065	1,091	38%
Total Undergraduate		4,283	4,366	4,457	4,540	4,630	4,688	4,814	4,877	4,993	5,056	5,174	21%
Graduate													
	Full-time	396	407	411	416	426	432	432	439	445	453	466	18%
	Part-time	742	769	791	803	809	812	819	828	838	845	851	15%
Total Graduate		1,138	1,176	1,202	1,219	1,235	1,244	1,251	1,267	1,283	1,298	1,317	16%
Total Headcount		5,421	5,542	5,659	5,759	5,865	5,932	6,065	6,144	6,276	6,354	6,491	20%
Coppin													
Undergraduate													
	Full-time	2,442	2,485	2,507	2,540	2,586	2,607	2,671	2,693	2,752	2,773	2,835	16%
	Part-time	685	703	753	784	804	828	856	883	909	936	961	40%
Total Undergraduate		3,127	3,188	3,260	3,324	3,390	3,435	3,527	3,576	3,661	3,709	3,796	21%
Graduate													
	Full-time	142	146	148	149	153	155	156	158	161	164	168	18%
	Part-time	343	356	367	373	376	378	382	387	392	396	399	16%
Total Graduate		485	502	515	522	529	533	538	545	553	560	567	17%
Total Headcount		3,612	3,690	3,775	3,846	3,919	3,968	4,065	4,121	4,214	4,269	4,363	21%
Frostburg													
Undergraduate													
	Full-time	4,253	4,283	4,293	4,303	4,313	4,323	4,333	4,343	4,353	4,363	4,373	3%
	Part-time	378	378	378	378	378	378	378	378	378	378	378	0%
Total Undergraduate		4,631	4,661	4,671	4,681	4,691	4,701	4,711	4,721	4,731	4,741	4,751	3%
Graduate													
	Full-time	264	266	268	270	272	274	276	278	280	282	284	8%
	Part-time	526	530	534	538	542	546	550	554	558	562	566	8%
Total Graduate		790	796	802	808	814	820	826	832	838	844	850	8%
Total Headcount		5,421	5,457	5,473	5,489	5,505	5,521	5,537	5,553	5,569	5,585	5,601	3%

Projections of Headcount Enrollment at Maryland Public Four-Year Institutions

		FALL 12 FY 13 Actual	FALL 13 FY 14 Projected	FALL 14 FY 15 Projected	FALL 15 FY 16 Projected	FALL 16 FY 17 Projected	FALL 17 FY 18 Projected	FALL 18 FY 19 Projected	FALL 19 FY 20 Projected	FALL 20 FY 21 Projected	FALL 21 FY 22 Projected	FALL 22 FY 17 Projected	% Change 12-22
Salisbury													
Undergraduate													
	Full-time	7,323	7,356	7,383	7,422	7,449	7,536	7,641	7,798	7,798	7,798	7,798	6%
	Part-time	646	623	625	628	630	638	646	660	660	660	660	2%
Total Undergraduate		7,969	7,979	8,008	8,050	8,079	8,174	8,287	8,458	8,458	8,458	8,458	6%
Graduate													
	Full-time	288	288	297	310	339	352	377	385	385	385	385	34%
	Part-time	400	415	427	447	489	506	543	554	554	554	554	39%
Total Graduate		688	703	724	757	828	858	920	939	939	939	939	36%
Total Headcount		8,657	8,682	8,732	8,807	8,907	9,032	9,207	9,397	9,397	9,397	9,397	9%
Towson													
Undergraduate													
	Full-time	15,852	16,131	16,272	16,480	16,775	16,910	17,322	17,464	17,845	17,982	18,378	16%
	Part-time	2,136	2,184	2,333	2,421	2,473	2,537	2,615	2,687	2,757	2,829	2,894	35%
Total Undergraduate		17,988	18,315	18,605	18,901	19,248	19,447	19,937	20,151	20,602	20,811	21,272	18%
Graduate													
	Full-time	1,200	1,230	1,243	1,254	1,283	1,300	1,300	1,319	1,336	1,359	1,394	16%
	Part-time	2,772	2,870	2,945	2,986	3,003	3,010	3,033	3,062	3,092	3,114	3,131	13%
Total Graduate		3,972	4,100	4,188	4,240	4,286	4,310	4,333	4,381	4,428	4,473	4,525	14%
Total Headcount		21,960	22,415	22,793	23,141	23,534	23,757	24,270	24,532	25,030	25,284	25,797	17%
University of Baltimore													
Undergraduate													
	Full-time	2,012	2,053	2,076	2,108	2,151	2,174	2,232	2,256	2,311	2,335	2,393	19%
	Part-time	1,414	1,447	1,547	1,607	1,644	1,688	1,742	1,791	1,840	1,890	1,936	37%
Total Undergraduate		3,426	3,500	3,623	3,715	3,795	3,862	3,974	4,047	4,151	4,225	4,329	26%
Graduate													
	Full-time	1,446	1,479	1,491	1,501	1,533	1,548	1,545	1,565	1,581	1,604	1,641	13%
	Part-time	1,686	1,748	1,796	1,823	1,836	1,842	1,858	1,879	1,899	1,915	1,928	14%
Total Graduate		3,132	3,227	3,287	3,324	3,369	3,390	3,403	3,444	3,480	3,519	3,569	14%
Total Headcount		6,558	6,727	6,910	7,039	7,164	7,252	7,377	7,491	7,631	7,744	7,898	20%

Projections of Headcount Enrollment at Maryland Public Four-Year Institutions

		FALL 12 FY 13 Actual	FALL 13 FY 14 Projected	FALL 14 FY 15 Projected	FALL 15 FY 16 Projected	FALL 16 FY 17 Projected	FALL 17 FY 18 Projected	FALL 18 FY 19 Projected	FALL 19 FY 20 Projected	FALL 20 FY 21 Projected	FALL 21 FY 22 Projected	FALL 22 FY 17 Projected	% Change 12-22
UMB													
Undergraduate													
	Full-time	559	486	455	456	456	456	456	456	456	456	456	-18%
	Part-time	169	198	192	192	192	192	192	192	192	192	192	14%
Total Undergraduate		728	684	647	648	648	648	648	648	648	648	648	-11%
Graduate													
	Full-time	4,544	4,493	4,465	4,499	4,506	4,515	4,564	4,571	4,611	4,617	4,658	3%
	Part-time	1,096	1,023	977	950	953	1,021	1,086	1,088	1,090	1,092	1,094	0%
Total Graduate		5,640	5,516	5,442	5,449	5,459	5,536	5,650	5,659	5,701	5,709	5,752	2%
Total Headcount		6,368	6,200	6,089	6,097	6,107	6,184	6,298	6,307	6,349	6,357	6,400	1%
UMBC													
Undergraduate													
	Full-time	9,371	9,563	9,850	10,146	10,450	10,659	10,712	10,766	10,820	10,874	10,928	17%
	Part-time	1,582	1,618	1,666	1,716	1,768	1,803	1,812	1,821	1,830	1,839	1,848	17%
Total Undergraduate		10,953	11,181	11,516	11,862	12,218	12,462	12,524	12,587	12,650	12,713	12,776	17%
Graduate													
	Full-time	1,134	1,161	1,161	1,161	1,161	1,161	1,161	1,161	1,161	1,161	1,161	2%
	Part-time	1,550	1,609	1,692	1,778	1,866	1,957	2,019	2,083	2,148	2,214	2,282	47%
Total Graduate		2,684	2,770	2,853	2,939	3,027	3,118	3,180	3,244	3,309	3,375	3,443	28%
Total Headcount		13,637	13,951	14,369	14,801	15,245	15,580	15,704	15,831	15,959	16,088	16,219	19%
UMCP													
Undergraduate													
	Full-time	24,486	24,500	24,800	25,000	25,125	25,200	25,220	25,220	25,220	25,220	25,220	3%
	Part-time	2,052	2,025	2,100	2,125	2,125	2,125	2,130	2,130	2,130	2,130	2,130	4%
Total Undergraduate		26,538	26,525	26,900	27,125	27,250	27,325	27,350	27,350	27,350	27,350	27,350	3%
Graduate													
	Full-time	7,788	7,770	7,770	7,770	7,770	7,770	7,800	7,800	7,800	7,800	7,800	0%
	Part-time	2,921	2,980	3,030	3,030	3,030	3,030	3,000	3,000	3,000	3,000	3,000	3%
Total Graduate		10,709	10,750	10,800	10,800	10,800	10,800	10,800	10,800	10,800	10,800	10,800	1%
Total Headcount		37,247	37,275	37,700	37,925	38,050	38,125	38,150	38,150	38,150	38,150	38,150	2%

Projections of Headcount Enrollment at Maryland Public Four-Year Institutions

		FALL 12 FY 13 Actual	FALL 13 FY 14 Projected	FALL 14 FY 15 Projected	FALL 15 FY 16 Projected	FALL 16 FY 17 Projected	FALL 17 FY 18 Projected	FALL 18 FY 19 Projected	FALL 19 FY 20 Projected	FALL 20 FY 21 Projected	FALL 21 FY 22 Projected	FALL 22 FY 17 Projected	% Change 12-22
UMES													
Undergraduate													
	Full-time	3,449	3,512	3,545	3,593	3,660	3,692	3,784	3,818	3,904	3,936	4,026	17%
	Part-time	309	316	338	351	359	369	381	392	402	413	423	37%
Total Undergraduate		3,758	3,828	3,883	3,944	4,019	4,061	4,165	4,210	4,306	4,349	4,449	18%
Graduate													
	Full-time	441	455	462	469	482	491	493	503	513	524	540	22%
	Part-time	255	265	272	277	279	281	284	287	291	294	296	16%
Total Graduate		696	720	734	746	761	772	777	790	804	818	836	20%
Total Headcount		4,454	4,548	4,617	4,690	4,780	4,833	4,942	5,000	5,110	5,167	5,285	19%
UMUC													
Undergraduate													
	Full-time	6,144	6,144	6,205	6,330	6,519	6,715	6,916	7,124	7,338	7,558	7,785	27%
	Part-time	22,129	22,129	22,350	22,797	23,481	24,186	24,911	25,659	26,428	27,221	28,038	27%
Total Undergraduate		28,273	28,273	28,555	29,127	30,000	30,901	31,827	32,783	33,766	34,779	35,823	27%
Graduate													
	Full-time	277	277	283	291	300	309	318	328	337	347	358	29%
	Part-time	13,718	13,718	13,992	14,412	14,844	15,290	15,749	16,221	16,708	17,209	17,725	29%
Total Graduate		13,995	13,995	14,275	14,703	15,144	15,599	16,067	16,549	17,045	17,556	18,083	29%
Total Headcount		42,268	42,268	42,830	43,830	45,144	46,500	47,894	49,332	50,811	52,335	53,906	28%
TOTAL SYSTEM OF MD.													
Undergraduate													
	Full-time	79,384	80,070	80,977	82,018	83,192	84,013	85,123	85,808	86,755	87,286	88,275	11%
	Part-time	32,290	32,430	33,148	33,899	34,776	35,691	36,641	37,600	38,561	39,553	40,551	26%
Total Undergraduate		111,674	112,500	114,125	115,917	117,968	119,704	121,764	123,408	125,316	126,839	128,826	15%
Graduate													
	Full-time	17,920	17,972	17,999	18,090	18,225	18,307	18,422	18,507	18,610	18,696	18,855	5%
	Part-time	26,009	26,283	26,823	27,417	28,027	28,673	29,323	29,943	30,570	31,195	31,826	22%
Total Graduate		43,929	44,255	44,822	45,507	46,252	46,980	47,745	48,450	49,180	49,891	50,681	15%
Total Headcount		155,603	156,755	158,947	161,424	164,220	166,684	169,509	171,858	174,496	176,730	179,507	15%

Projections of Headcount Enrollment at Maryland Public Four-Year Institutions

		FALL 12 FY 13 Actual	FALL 13 FY 14 Projected	FALL 14 FY 15 Projected	FALL 15 FY 16 Projected	FALL 16 FY 17 Projected	FALL 17 FY 18 Projected	FALL 18 FY 19 Projected	FALL 19 FY 20 Projected	FALL 20 FY 21 Projected	FALL 21 FY 22 Projected	FALL 22 FY 17 Projected	% Change 12-22
Morgan State													
Undergraduate													
	Full-time	5,794	5,913	5,982	6,075	6,202	6,270	6,441	6,512	6,674	6,744	6,913	19%
	Part-time	797	817	875	910	932	958	990	1,019	1,048	1,079	1,106	39%
Total Undergraduate		6,591	6,730	6,857	6,985	7,134	7,228	7,431	7,531	7,722	7,823	8,019	22%
Graduate													
	Full-time	707	729	742	753	775	790	795	812	828	847	875	24%
	Part-time	654	680	701	714	721	726	734	745	755	764	772	18%
Total Graduate		1,361	1,409	1,443	1,467	1,496	1,516	1,529	1,557	1,583	1,611	1,647	21%
Total Headcount		7,952	8,139	8,300	8,452	8,630	8,744	8,960	9,088	9,305	9,434	9,666	22%
St. Mary's College													
Undergraduate													
	Full-time	1,837	1,675	1,731	1,787	1,843	1,901	1,901	1,901	1,901	1,901	1,901	3%
	Part-time	64	60	60	61	61	61	61	61	61	61	61	-5%
Total Undergraduate		1,901	1,735	1,791	1,848	1,904	1,962	1,962	1,962	1,962	1,962	1,962	3%
Graduate													
	Full-time	30	30	30	30	30	30	30	30	30	30	30	0%
	Part-time	2	0	0	0	0	0	0	0	0	0	0	-100%
Total Graduate		32	30	30	30	30	30	30	30	30	30	30	-6%
Total Headcount		1,933	1,765	1,821	1,878	1,934	1,992	1,992	1,992	1,992	1,992	1,992	3%
TOTAL 4-YEAR PUBLIC													
Undergraduate													
	Full-time	87,015	87,658	88,690	89,880	91,237	92,184	93,465	94,221	95,330	95,931	97,089	12%
	Part-time	33,151	33,307	34,083	34,870	35,769	36,710	37,692	38,680	39,670	40,693	41,718	26%
Total Undergraduate		120,166	120,965	122,773	124,750	127,006	128,894	131,157	132,901	135,000	136,624	138,807	16%
Graduate													
	Full-time	18,657	18,731	18,771	18,873	19,030	19,127	19,247	19,349	19,468	19,573	19,760	6%
	Part-time	26,665	26,963	27,524	28,131	28,748	29,399	30,057	30,688	31,325	31,959	32,598	22%
Total Graduate		45,322	45,694	46,295	47,004	47,778	48,526	49,304	50,037	50,793	51,532	52,358	16%
Total Headcount		165,488	166,659	169,068	171,754	174,784	177,420	180,461	182,938	185,793	188,156	191,165	16%

Projections of Full-Time Equivalent and Full-Time Day Equivalent Enrollment at Maryland Public Four-Year Institutions

	FALL 13 FY 14 Projected	FALL 14 FY 15 Projected	FALL 15 FY 16 Projected	FALL 16 FY 17 Projected	FALL 17 FY 18 Projected	FALL 18 FY 19 Projected	FALL 19 FY 20 Projected	FALL 20 FY 21 Projected	FALL 21 FY 22 Projected	FALL 22 FY 23 Projected	% Change 13-23
Bowie											
FTES	4,408	4,471	4,539	4,625	4,672	4,778	4,831	4,936	4,988	5,101	16%
FTDES	3,712									4,296	16%
Coppin											
FTES	2,969	3,013	3,059	3,116	3,148	3,223	3,258	3,330	3,364	3,439	16%
FTDES	2,068									2,395	16%
Frostburg											
FTES	4,581	4,594	4,606	4,619	4,632	4,644	4,657	4,669	4,682	4,694	2%
FTDES	3,500									3,586	2%
Salisbury											
FTES	7,873	7,913	7,972	8,042	8,149	8,291	8,462	8,462	8,462	8,462	7%
FTDES	6,288									6,758	7%
Towson											
FTES	18,484	18,706	18,961	19,297	19,468	19,900	20,089	20,508	20,694	21,138	14%
FTDES	14,993									17,146	14%
University of Baltimore											
FTES	4,543	4,627	4,697	4,787	4,841	4,919	4,985	5,078	5,146	5,260	16%
FTDES	2,166									2,507	16%
UMB											
FTES	6,386	6,295	6,326	6,336	6,373	6,457	6,466	6,514	6,522	6,572	3%
FTDES	5,168									5,318	3%

Projections of Full-Time Equivalent and Full-Time Day Equivalent Enrollment at Maryland Public Four-Year Institutions

	FALL 13 FY 14 Projected	FALL 14 FY 15 Projected	FALL 15 FY 16 Projected	FALL 16 FY 17 Projected	FALL 17 FY 18 Projected	FALL 18 FY 19 Projected	FALL 19 FY 20 Projected	FALL 20 FY 21 Projected	FALL 21 FY 22 Projected	FALL 22 FY 23 Projected	% Change 13-23
UMBC											
FTES	11,311	11,628	11,955	12,291	12,532	12,605	12,680	12,755	12,831	12,908	14%
FTDES	8,986									10,255	14%
UMCP											
FTES	31,581	31,899	32,093	32,209	32,279	32,318	32,318	32,318	32,318	32,318	2%
FTDES	27,431									28,072	2%
UMES											
FTES	4,145	4,195	4,256	4,339	4,384	4,482	4,531	4,631	4,678	4,788	16%
FTDES	3,419									3,949	16%
UMUC											
FTES	25,577	25,900	26,488	27,282	28,101	28,943	29,813	30,706	31,627	32,577	27%
FTDES	n/a									n/a	n/a
TOTAL SYSTEM OF MD.											
FTES	121,858	123,241	124,952	126,943	128,579	130,560	132,090	133,907	135,312	137,257	13%
FTDES (except UMUC)	77,731									84,282	8%
Morgan State											
FTES	7,211	7,321	7,442	7,602	7,696	7,887	7,990	8,183	8,286	8,497	18%
FTDES	5,115									6,027	18%
St. Mary's College											
FTES	1,765	1,821	1,878	1,934	1,992	1,992	1,992	1,992	1,992	1,992	13%
FTDES	1,617									1,826	13%
TOTAL 4-YEAR PUBLIC											
FTES	130,834	132,383	134,272	136,479	138,267	140,439	142,072	144,082	145,590	147,746	13%
FTDES (except UMUC)	84,463									92,135	9%

MARYLAND HIGHER EDUCATION COMMISSION
Enrollment Projection Model - Four Year Colleges and Universities

These are the assumptions and steps used in projecting the headcount enrollments at Maryland's public four-year colleges and universities.

ASSUMPTIONS

1. Enrollments of Maryland residents can be forecast by matching the historical relationship between the state's population and past in-state enrollments, then incorporating population projections for the state.
2. The ratio of in-state to out-of-state students in Maryland will remain relatively constant.
3. The number of full-time undergraduates will be affected by trends in high school graduates and the number of full-time students enrolling at the state's community colleges.
4. The number of part-time undergraduates will be impacted by changes in the per capita disposable income, calculated in constant dollars, of Maryland residents.

STEPS

1. Total enrollment at Maryland's public four-year campuses during the past ten years were categorized by gender, age (11 groupings), and enrollment status (full- and part-time, undergraduate and graduate/professional). Students whose age was unknown were distributed in the other age categories on a proportional basis.
2. The percentage of students who were Maryland residents was determined for each gender and enrollment group.
3. The state's population during the ten-year period was categorized by gender and the same age groupings. The actual and projected population figures were obtained from the Maryland Office of Planning.
4. A least-squares fit regression analysis was used to examine the relationship between the in-state enrollment (dependent variable) and the state's population (independent variable). This relationship was then applied to the population projections through the year 2022 to determine the projected enrollments of Maryland residents.

5. Out-of-state enrollments were projected to be consistent with the ratio of in-state to out-of-state students in the last year in which actual enrollment figures were available. Separate ratios were used for each of the gender and enrollment categories.
6. The annual percentage change in the number of Maryland full-time community college students over ten years, with a two-year time lag, was integrated into the regression model as an independent variable for predicting the number of full-time undergraduates.
7. The annual projected change in the number of Maryland high school graduates through spring 2022 was integrated into the regression model as an independent variable for predicting the number of full-time undergraduates. Projections for Maryland high school graduates were obtained from the Western Interstate Commission for Higher Education.
8. The annual percentage change in the per capita disposable income, in constant dollars, of Maryland residents over five years, with a two-year time lag, was integrated into the regression model as an independent variable for predicting the number of part-time undergraduates. The income information was obtained from the Bureau of Economic Analysis.
9. The projected number of full-time equivalent students (FTES) at each public four-year institution was calculated from the headcount enrollments. This conversion was made by: 1) computing headcount-driven FTES figures for each campus for each year (the total number of full-time students plus one-third of the part-time), and 2) multiplying these figures by the average ratio of headcount- to credit hour-driven FTES over the past three years. A separate ratio was obtained for each college, and these ratios were applied to each year through 2022 (FY 2023).
10. The projected number of full-time day equivalent students (FTDES) at each public four-year institution was calculated by multiplying the FTES enrollment for each campus by the average ratio of credit hour-driven FTES to FTDES over the past three years. A separate ratio was obtained for each campus, and these ratios were applied to each year through 2022. A figure equaling the most recent first- and second-year headcount enrollment at the University of Maryland School of Medicine was added to the FTDES of University of Maryland, Baltimore (UMB) in each year. The standard formula understates the FTDES at UMB since The School of Medicine does not operate on a credit hour basis.

Projections of Headcount Enrollment at Maryland Community Colleges

	FALL 12 FY 13 Actual	FALL 13 FY 14 Projected	FALL 14 FY 15 Projected	FALL 15 FY 16 Projected	FALL 16 FY 17 Projected	FALL 17 FY 18 Projected	FALL 18 FY 19 Projected	FALL 19 FY 20 Projected	FALL 20 FY 21 Projected	FALL 21 FY 22 Projected	FALL 22 FY 23 Projected	% Change 12-22
Allegany College of Md.												
Full-time	1,958	1,958	1,958	1,958	1,957	2,028	2,020	2,076	2,109	2,117	2,157	10%
Part-time	1,701	1,701	1,701	1,701	1,743	1,772	1,793	1,806	1,828	1,863	1,872	10%
Total Headcount	3,659	3,659	3,659	3,659	3,700	3,800	3,813	3,882	3,937	3,980	4,029	10%
Anne Arundel CC												
Full-time	5,097	5,143	5,203	5,415	5,558	5,703	5,767	5,860	5,959	6,140	6,411	26%
Part-time	12,552	12,930	13,116	13,241	13,336	13,481	13,667	13,752	13,779	13,785	13,980	11%
Total Headcount	17,649	18,073	18,319	18,656	18,894	19,184	19,434	19,612	19,738	19,925	20,391	16%
Baltimore City CC												
Full-time	1,803	1,907	1,942	2,001	2,088	2,182	2,241	2,306	2,468	2,574	2,617	45%
Part-time	3,671	3,748	3,886	3,957	4,047	4,130	4,224	4,300	4,352	4,455	4,544	24%
Total Headcount	5,474	5,655	5,828	5,958	6,135	6,312	6,465	6,606	6,820	7,029	7,161	31%
Carroll CC												
Full-time	1,614	1,643	1,679	1,752	1,822	1,888	1,919	1,961	1,985	2,057	2,159	34%
Part-time	2,489	2,545	2,594	2,610	2,615	2,634	2,673	2,673	2,704	2,714	2,767	11%
Total Headcount	4,103	4,188	4,273	4,362	4,437	4,522	4,592	4,634	4,689	4,771	4,926	20%
CCBC												
Full-time	8,373	8,419	8,715	8,951	9,423	9,618	9,897	10,535	10,750	11,252	11,627	39%
Part-time	16,815	17,154	17,430	17,601	17,654	17,753	17,924	17,952	18,024	18,089	18,382	9%
Total Headcount	25,188	25,573	26,145	26,552	27,077	27,371	27,821	28,487	28,774	29,341	30,009	19%
Cecil CC												
Full-time	1,130	1,194	1,220	1,227	1,273	1,322	1,349	1,383	1,425	1,480	1,552	37%
Part-time	1,581	1,615	1,640	1,649	1,651	1,662	1,686	1,685	1,692	1,697	1,709	8%
Total Headcount	2,711	2,809	2,860	2,876	2,924	2,984	3,035	3,068	3,117	3,177	3,261	20%
Chesapeake CC												
Full-time	920	934	959	994	1,028	1,065	1,083	1,107	1,123	1,162	1,226	33%
Part-time	1,740	1,782	1,827	1,849	1,854	1,877	1,914	1,935	1,958	1,986	2,028	17%
Total Headcount	2,660	2,716	2,786	2,843	2,882	2,942	2,997	3,042	3,081	3,148	3,254	22%

Projections of Headcount Enrollment at Maryland Community Colleges

	FALL 12 FY 13 Actual	FALL 13 FY 14 Projected	FALL 14 FY 15 Projected	FALL 15 FY 16 Projected	FALL 16 FY 17 Projected	FALL 17 FY 18 Projected	FALL 18 FY 19 Projected	FALL 19 FY 20 Projected	FALL 20 FY 21 Projected	FALL 21 FY 22 Projected	FALL 22 FY 23 Projected	% Change 12-22
Frederick CC												
Full-time	2,179	2,248	2,304	2,343	2,436	2,484	2,529	2,591	2,643	2,762	2,843	30%
Part-time	3,980	4,078	4,140	4,162	4,176	4,200	4,222	4,255	4,249	4,266	4,320	9%
Total Headcount	6,159	6,326	6,444	6,505	6,612	6,684	6,751	6,846	6,892	7,028	7,163	16%
Garrett												
Full-time	687	679	696	721	747	757	774	791	814	845	869	26%
Part-time	186	192	199	205	209	215	221	229	234	240	248	33%
Total Headcount	873	871	895	926	956	972	995	1,020	1,048	1,085	1,117	28%
Hagerstown CC												
Full-time	1,382	1,442	1,501	1,525	1,592	1,644	1,682	1,728	1,780	1,868	1,932	40%
Part-time	3,623	3,703	3,775	3,831	3,860	3,908	3,985	4,007	4,055	4,110	4,168	15%
Total Headcount	5,005	5,145	5,276	5,356	5,452	5,552	5,667	5,735	5,835	5,978	6,100	22%
Harford CC												
Full-time	2,830	3,021	3,080	3,093	3,200	3,316	3,374	3,448	3,533	3,661	3,802	34%
Part-time	4,396	4,446	4,593	4,666	4,710	4,758	4,839	4,874	4,902	4,983	5,055	15%
Total Headcount	7,226	7,467	7,673	7,759	7,910	8,074	8,213	8,322	8,435	8,644	8,857	23%
Howard CC												
Full-time	3,705	3,840	3,910	4,057	4,210	4,242	4,433	4,601	4,702	4,887	5,032	36%
Part-time	6,447	6,596	6,811	6,965	7,032	7,135	7,178	7,350	7,469	7,611	7,714	20%
Total Headcount	10,152	10,436	10,721	11,022	11,242	11,377	11,611	11,951	12,171	12,498	12,746	26%
Montgomery												
Full-time	9,888	10,164	10,354	10,540	10,954	11,037	11,175	11,423	11,559	11,984	12,262	24%
Part-time	17,565	17,893	18,231	18,292	18,290	18,356	18,485	18,573	18,657	18,673	18,840	7%
Total Headcount	27,453	28,057	28,585	28,832	29,244	29,393	29,660	29,996	30,216	30,657	31,102	13%
Prince George's CC												
Full-time	4,059	4,165	4,290	4,424	4,603	4,745	4,850	4,935	5,099	5,326	5,465	35%
Part-time	9,765	9,996	10,222	10,277	10,324	10,410	10,552	10,702	10,934	11,067	11,236	15%
Total Headcount	13,824	14,161	14,512	14,701	14,927	15,155	15,402	15,637	16,033	16,393	16,701	21%

Projections of Headcount Enrollment at Maryland Community Colleges

	FALL 12 FY 13 Actual	FALL 13 FY 14 Projected	FALL 14 FY 15 Projected	FALL 15 FY 16 Projected	FALL 16 FY 17 Projected	FALL 17 FY 18 Projected	FALL 18 FY 19 Projected	FALL 19 FY 20 Projected	FALL 20 FY 21 Projected	FALL 21 FY 22 Projected	FALL 22 FY 23 Projected	% Change 12-22
College of Southern Md.												
Full-time	3,405	3,553	3,631	3,666	3,765	3,851	3,970	4,059	4,119	4,250	4,402	29%
Part-time	5,805	5,938	6,048	6,093	6,094	6,125	6,203	6,221	6,230	6,221	6,268	8%
Total Headcount	9,210	9,491	9,679	9,759	9,859	9,976	10,173	10,280	10,349	10,471	10,670	16%
Wor-Wic CC												
Full-time	1,190	1,207	1,240	1,319	1,380	1,400	1,430	1,466	1,508	1,584	1,646	38%
Part-time	2,549	2,631	2,690	2,763	2,810	2,862	2,902	2,939	2,968	3,011	3,040	19%
Total Headcount	3,739	3,838	3,930	4,082	4,190	4,262	4,332	4,405	4,476	4,595	4,686	25%
Total Community Colleges												
Full-time	50,220	51,517	52,682	53,986	56,036	57,282	58,493	60,270	61,576	63,949	66,002	31%
Part-time	94,865	96,948	98,903	99,862	100,405	101,278	102,468	103,253	104,035	104,771	106,171	12%
Total Headcount	145,085	148,465	151,585	153,848	156,441	158,560	160,961	163,523	165,611	168,720	172,173	19%

Projections of Full-Time Equivalent and Full-Time Day Equivalent Enrollment at Maryland Community Colleges

	FALL 13 FY 14 Projected	FALL 14 FY 15 Projected	FALL 15 FY 16 Projected	FALL 16 FY 17 Projected	FALL 17 FY 18 Projected	FALL 18 FY 19 Projected	FALL 19 FY 20 Projected	FALL 20 FY 21 Projected	FALL 21 FY 22 Projected	FALL 22 FY 23 Projected	% Change 13-22
Allegany College of Md.											
FTES	2,427	2,427	2,427	2,440	2,517	2,516	2,574	2,613	2,632	2,673	10%
FTDES	1,572									1,731	10%
Anne Arundel CC											
FTES	10,533	10,669	10,952	11,147	11,362	11,502	11,638	11,758	11,962	12,336	17%
FTDES	6,764									7,922	17%
Baltimore City CC											
FTES	3,480	3,569	3,660	3,789	3,923	4,023	4,122	4,320	4,475	4,555	31%
FTDES	1,646									2,154	31%
Carroll CC											
FTES	2,738	2,795	2,881	2,960	3,040	3,088	3,134	3,172	3,255	3,386	24%
FTDES	1,845									2,282	24%
CCBC											
FTES	15,270	15,689	16,005	16,534	16,781	17,144	17,843	18,101	18,667	19,177	26%
FTDES	9,419									11,829	26%
Catonsville											
FTDES	4,003									5,027	26%
Dundalk											
FTDES	1,413									1,774	26%
Essex											
FTDES	4,003									5,027	26%

Projections of Full-Time Equivalent and Full-Time Day Equivalent Enrollment at Maryland Community Colleges

	FALL 13 FY 14 Projected	FALL 14 FY 15 Projected	FALL 15 FY 16 Projected	FALL 16 FY 17 Projected	FALL 17 FY 18 Projected	FALL 18 FY 19 Projected	FALL 19 FY 20 Projected	FALL 20 FY 21 Projected	FALL 21 FY 22 Projected	FALL 22 FY 23 Projected	% Change 13-22
Cecil CC											
FTES	1,941	1,980	1,991	2,043	2,102	2,142	2,179	2,229	2,293	2,378	23%
FTDES	1,162									1,424	23%
Chesapeake CC											
FTES	1,573	1,614	1,657	1,694	1,740	1,771	1,803	1,827	1,877	1,957	24%
FTDES	1,016									1,263	24%
Frederick CC											
FTES	4,170	4,259	4,312	4,425	4,490	4,550	4,635	4,693	4,837	4,951	19%
FTDES	2,304									2,735	19%
Garrett											
FTES	724	743	770	796	808	827	846	870	902	928	28%
FTDES	503									644	28%
Hagerstown CC											
FTES	3,234	3,335	3,386	3,479	3,561	3,638	3,703	3,785	3,913	4,014	24%
FTDES	1,821									2,261	24%
Harford CC											
FTES	4,585	4,695	4,733	4,856	4,991	5,077	5,165	5,261	5,418	5,586	22%
FTDES	3,491									4,253	22%
Howard CC											
FTES	6,502	6,655	6,868	7,057	7,128	7,349	7,592	7,743	7,994	8,187	26%
FTDES	5,022									6,323	26%

Projections of Full-Time Equivalent and Full-Time Day Equivalent Enrollment at Maryland Community Colleges

	FALL 13 FY 14 Projected	FALL 14 FY 15 Projected	FALL 15 FY 16 Projected	FALL 16 FY 17 Projected	FALL 17 FY 18 Projected	FALL 18 FY 19 Projected	FALL 19 FY 20 Projected	FALL 20 FY 21 Projected	FALL 21 FY 22 Projected	FALL 22 FY 23 Projected	% Change 13-22
Montgomery CC											
FTES	18,336	18,680	18,915	19,385	19,504	19,710	20,025	20,212	20,701	21,080	15%
FTDES	13,120									15,084	15%
Rockville											
FTDES	7,347									8,447	15%
Takoma Park											
FTDES	3,018									3,469	15%
Germantown											
FTDES	2,755									3,168	15%
Prince George's CC											
FTES	8,731	8,965	9,142	9,369	9,567	9,745	9,902	10,183	10,499	10,727	23%
FTDES	5,059									6,216	23%
College of Southern Md.											
FTES	5,614	5,731	5,781	5,882	5,980	6,127	6,224	6,288	6,417	6,588	17%
FTDES	3,253									3,818	17%
LaPlata / Waldorf											
FTDES	2,049									2,405	17%
Prince Frederick											
FTDES	651									764	17%
Leonardtown											
FTDES	553									649	17%

Projections of Full-Time Equivalent and Full-Time Day Equivalent Enrollment at Maryland Community Colleges

	FALL 13 FY 14 Projected	FALL 14 FY 15 Projected	FALL 15 FY 16 Projected	FALL 16 FY 17 Projected	FALL 17 FY 18 Projected	FALL 18 FY 19 Projected	FALL 19 FY 20 Projected	FALL 20 FY 21 Projected	FALL 21 FY 22 Projected	FALL 22 FY 23 Projected	% Change 13-22
Wor-Wic CC											
FTES	2,366	2,425	2,543	2,630	2,672	2,721	2,776	2,835	2,937	3,019	28%
FTDES	1,549									1,977	28%
Total Community Colleges											
FTES	92,224	94,231	96,023	98,486	100,166	101,930	104,161	105,890	108,779	111,542	21%
FTDES	59,546									71,916	21%

MARYLAND HIGHER EDUCATION COMMISSION
Enrollment Projection Model - Community Colleges

These are the assumptions and steps used in projecting the headcount enrollments at Maryland's public community colleges.

ASSUMPTIONS

1. Enrollments of Maryland residents can be forecast by matching the historical relationship between the state's population and past in-state enrollments, then incorporating population projections for the state.
2. The ratio of in-state to out-of-state students in Maryland will remain relatively constant.
3. Tuition increases will have an impact on full- and part-time community college enrollments.
4. The number of full-time students will be affected by trends in high school graduates.
5. The number of part-time students will be impacted by changes in the per capita disposable income, calculated in constant dollars, of Maryland residents.

STEPS

1. Total enrollment at Maryland's community colleges during the past ten years were categorized by gender, age (11 groupings), and enrollment status (full- and part-time). Students whose age was unknown were distributed in the other age categories on a proportional basis.
2. The percentage of students who were Maryland residents was determined for each gender and enrollment group.
3. The state's population during the ten-year period was categorized by gender and the same age groupings. The actual and projected population figures were obtained from the Maryland Office of Planning.

4. A least-squares fit regression analysis was used to examine the relationship between the in-state enrollment (dependent variable) and the state's population (independent variable). This relationship was then applied to the population projections through the year 2022 to determine the projected enrollments of Maryland residents.
5. Out-of-state enrollments were projected to be consistent with the ratio of in-state to out-of-state students in the last year in which actual enrollment figures were available. Separate ratios were used for each of the gender and enrollment categories.
6. The annual percentage change over ten years in the resident tuition and fees at Maryland community colleges, with a two-year lag time, was integrated inversely into the regression model as an independent variable for predicting the number of full-time students.
7. The annual percentage change over ten years in the credit hour tuition and fees of residents in community college service areas, with a two-year lag time, was integrated inversely into the regression model as an independent variable for predicting the number of part-time students.
8. The annual projected change in the number of Maryland high school graduates through spring 2022 was integrated into the regression model as an independent variable for predicting the number of full-time students. Projections for Maryland high school graduates were obtained from the Western Interstate Commission for Higher Education.
9. The annual percentage change in the per capita disposable income, in constant dollars, of Maryland residents over five years, with a two-year time lag, was integrated into the regression model as an independent variable for predicting the number of part-time students. The income information was obtained from the Bureau of Economic Analysis.
10. The projected number of full-time equivalent students (FTES) at each community college was calculated from the headcount enrollments. This conversion was made by: 1) computing headcount-driven FTES figures for each college for each year (the total number of full-time students plus one-third of the part-time), and 2) multiplying these figures by the average ratio of headcount- to credit hour-driven FTES over the past three years. A separate ratio was obtained for each college, and these ratios were applied to each year through 2022 (FY 2023).
11. The projected number of full-time day equivalent students (FTDES) at each community college was calculated by multiplying the FTES enrollments for each campus by the average ratio of credit hour-driven FTES to FTDES over the past three years. A separate ratio was obtained for each campus, and these ratios were applied to each year through 2022.

**PROJECTED STATE FUNDED NONCREDIT FULL-TIME EQUIVALENT TRENDS
MARYLAND COMMUNITY COLLEGES
FISCAL YEARS 2013 - 2022**

College	FY12 actual	FY13	FY14	FY15	FY16	FY17	FY18	FY19	FY20	FY21	FY22	Percent Change FY12- FY22
Allegany	398	398	401	403	405	408	411	414	418	420	424	7%
Anne Arundel	3,841	3,865	3,909	3,953	3,998	4,043	4,088	4,125	4,164	4,202	4,241	10%
Baltimore City	2,586	2,600	2,611	2,622	2,633	2,645	2,656	2,676	2,695	2,715	2,735	6%
Baltimore County	4,506	4,556	4,570	4,582	4,595	4,609	4,622	4,632	4,642	4,651	4,661	3%
Carroll	547	547	563	578	593	611	627	641	657	671	687	26%
Cecil	568	592	602	613	622	632	642	651	661	670	679	20%
Chesapeake	1,027	1,071	1,083	1,094	1,106	1,116	1,128	1,140	1,153	1,164	1,176	14%
Frederick	571	616	635	655	674	695	716	738	760	784	807	41%
Garrett	210	213	213	213	213	213	212	211	210	210	209	0%
Hagerstown	762	784	794	803	812	822	831	840	850	859	869	14%
Harford	920	948	951	954	957	959	962	959	957	975	992	8%
Howard	1,439	1,478	1,494	1,511	1,526	1,542	1,558	1,563	1,569	1,574	1,580	10%
Montgomery	3,210	3,278	3,350	3,424	3,501	3,578	3,657	3,734	3,813	3,894	3,977	24%
Prince George's	4,470	4,507	4,555	4,604	4,652	4,698	4,747	4,799	4,852	4,903	4,955	11%
Southern Maryland	882	944	955	966	978	988	999	1,011	1,022	1,033	1,044	18%
Wor-Wic	697	706	717	728	741	753	764	778	790	804	817	17%
SYSTEMWIDE	26,634	27,102	27,403	27,703	28,006	28,311	28,619	28,913	29,213	29,529	29,853	12%

MARYLAND HIGHER EDUCATION COMMISSION
Noncredit Continuing Education Enrollment Projection Model – Community Colleges

These are the assumptions and steps used in projecting the state-eligible full-time equivalent (FTE) noncredit continuing education enrollments at Maryland community colleges.

ASSUMPTIONS

1. The adult population 20 years of age or older in a community college's county or service area is a key predictor of noncredit continuing education enrollments.
2. Continuing education enrollments can be forecast by matching the historical relationship between state-funded FTE enrollments at each college and the adult population in the above age group in each college's respective county or service area to the population projections in each location.

STEPS

1. Total FTE noncredit continuing education enrollments at Maryland community colleges that are eligible for state funding were assembled for the past three years categorized by gender and age (11 groupings).
2. The number of residents in each Maryland county for the past three years was categorized by gender and the same age groupings. The actual population figures were obtained from the Maryland Office of Planning.
3. A least-squares fit regression analysis was used to examine the relationship between the noncredit enrollment (dependent variable) and the population (independent variable). A separate regression analysis was performed for each college, using its own enrollment figures and the population in its county or service area.
4. Each of the 16 statistical relationships was then applied to the population projections for the appropriate county or service area through FY 2022 to determine the projected noncredit FTE continuing education enrollments for the individual community colleges. The projected population figures were obtained from the Maryland Office of Planning.
5. Projected noncredit full-time day equivalent (FTDE) continuing education enrollments were calculated by taking a ratio of the total FTE noncredit enrollments and total FTDE noncredit enrollments for the past three years and multiplying the projected FTE noncredit enrollments by the average three-year ratio.