Enrollment Projections
2022-2031
Maryland Public Colleges and Universities

May 2022

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## Maryland Higher Education Commission

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## ENROLLMENT PROJECTIONS - MARYLAND PUBLIC COLLEGES AND UNIVERSITIES

The Maryland Higher Education Commission (MHEC) has prepared enrollment projections for Maryland public colleges and universities through Fall 2031. The projections include headcount projections for each 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 have also been developed for state-funding-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, and funding priorities. The Department of Budget and Management and the General Assembly use the Commission's forecasts as the State's official enrollment projections.

The Commission used separate but similar methodologies for projecting (a) credit enrollments at the community colleges and (b) public fouryear institutions. A third method was applied to produce the projections of noncredit continuing education enrollments at the community colleges. The projections involve the application of regression models based on a series of assumptions on the factors that may have an impact on enrollment.

These 10-year projections do not add additional variables or weights in the model that are specific to the COVID-19 pandemic, such as the sudden shocks due to the temporary change of course delivery mode, or students stopping out or reducing attendance level from full- to parttime. However, the pandemic-driven enrollment declines in 2020 and 2021 are incorporated into the model and lower the enrollment projections to some extent.

MHEC did not perform analysis to prepare the enrollment projection in FY 2021; the drivers of this decision are tied to the possible effects on the reliability of the projections due to the COVID-19 pandemic and the retrospective design of the model. ${ }^{1}$

[^0][^1]Fall 2022 credit headcount enrollment figure of 117,974 , a difference of 17,997 students (or $13.2 \%$ ). The major drivers for the difference are twofold. First, the population projections were adjusted to the lower values last year by the Maryland Department of Planning. The population projections serve as the base of the MHEC enrollment projections. Second, the continued overall enrollment decline in the last two years reduces the predicted values for future enrollment.

However, the projections still overestimate the enrollment for community colleges. The Fall 2021 actual enrollment, per the agency's official enrollment collection, ${ }^{2}$ is 97,458 . This is 20,516 or $21.1 \%$ lower than the projected Fall 2022 enrollment of $117,974 .{ }^{3}$ The overestimation is mainly attributed to the lagged response of the projection model to the persisting decline in the number of community college students. The general upward trend of the projected enrollments is primarily explained by the optimistic population projections for Maryland: it is predicted that the young population (age 15 to 24 ) will grow from 756,054 to 779,408 in the next ten years.

Unlike the projections for community colleges, projections for the public four-year institutions are more accurate because the in-state enrollments of public four-year institutions are less volatile. One exception is part-time graduate student enrollment - the projected figures for Fall 2022 clearly overestimate the part-time graduate enrollment and do not fully incorporate the long-term decrease in the number of parttime graduate students in Maryland.

[^2]
## MARYLAND HIGHER EDUCATION COMMISSION

Enrollment Projection Model - Headcount Credit Enrollment at Public Four-Year Institutions and Community Colleges

These were the assumptions and steps used in projecting the headcount enrollments at Maryland's public four-year colleges and universities and community colleges for the 2022-2031 Report. ${ }^{4}$

## ASSUMPTIONS

1. Enrollment among Maryland residents can be predicted by applying the historical relationship between the state's population and past instate enrollments to future population projections.
2. The number of full-time undergraduates at both the community colleges and public four-year institutions will be affected by the trends in high school graduates.
3. Tuition increases will have an impact on full- and part-time community college enrollments ${ }^{5}$.
4. The number of 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 ${ }^{6}$.
5. The ratio of in-state to out-of-state students in Maryland will be relatively constant over time.
6. The enrollment of each individual institution is determined by the projected state-wide total enrollment and the projected market share ${ }^{7}$ of the institution in the specific segment.
7. The 10 -year market share of each institution is predicted based upon the historical and actual market share for each institution over the past nine years.

[^3]8. The relationship between the credit hour-driven full-time equivalent enrollment (FTE) and the headcount-driven full-time equivalent enrollment is constant overtime ${ }^{8}$.
9. The relationship between the credit-driven FTE and the full-time day equivalent enrollment (FTDE) is constant overtime.
10. The impact of the COVID-19 pandemic on the temporary changes to distance education enrollments is not included in the model (e.g. as a variable or weight) because it would distort the long-term FTDE projection substantially.

## STEPS

1. Total enrollment at Maryland's public four-year institutions 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 Department of Planning.
4. An ordinary least squares regression model 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 2031 to determine the projected enrollments of Maryland residents.
5. The annual projected change in the number of Maryland high school graduates was integrated into the projections model as an adjusting factor for predicting the number of full-time undergraduates. Projections for Maryland high school graduates through the year 2031 were obtained from the Western Interstate Commission for Higher Education.
6. The annual percentage change in the per capita disposable income, in constant dollars, of Maryland residents was integrated into projections as an adjusting factor for predicting the number of part-time undergraduates. The income information was obtained from the Bureau of Economic Analysis.

[^4]7. The average annual change in enrollment over the past ten years was integrated into the projections model as an adjusting factor for predicting the number of enrollments of all the segments (full- and part-time, undergraduate and graduate/professional).
8. 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.
9. The projected market share of each institution by enrollment status (full- and part-time, undergraduate and graduate/professional) is estimated by the single exponential smoothing of the actual market share of the past nine years.
10. The projected enrollment of each institution is $t$ calculated by applying the projected market share to the projected statewide segmental enrollment.
11. 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.
12. 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 ${ }^{9}$. A separate ratio was obtained for each campus, and these ratios were applied to each year.

[^5]Projections of Headcount Enrollment at Maryland Public Four-Year Institutions


Projections of Headcount Enrollment at Maryland Public Four-Year Institutions




Projections of Headcount Enrollment at Maryland Public Four-Year Institutions


TOTAL USM
Undergraduate

Projections of Headcount Enrollment at Maryland Public Four-Year Institutions


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


[^6]Projections of Full-Time Equivalent and Full-Time Day Equivalent Enrollment at Maryland Public Four-Year Institutions

|  | $\begin{aligned} & \text { Fall } 20 \\ & \text { FY } 21 \\ & \text { Actual } \end{aligned}$ | $\begin{gathered} \text { Fall } 22 \\ \text { FY } 23 \\ \text { Projected } \end{gathered}$ | $\begin{gathered} \text { Fall } 23 \\ \text { FY } 24 \\ \text { Projected } \end{gathered}$ | $\begin{gathered} \text { Fall } 24 \\ \text { FY } 25 \\ \text { Projected } \end{gathered}$ | $\begin{gathered} \text { Fall } 25 \\ \text { FY } 26 \\ \text { Projected } \end{gathered}$ | $\begin{gathered} \text { Fall } 26 \\ \text { FY } 27 \\ \text { Projected } \end{gathered}$ | $\begin{gathered} \text { Fall } 27 \\ \text { FY } 28 \\ \text { Projected } \end{gathered}$ | $\begin{gathered} \text { Fall } 28 \\ \text { FY } 29 \\ \text { Projected } \end{gathered}$ | $\begin{gathered} \text { Fall } 29 \\ \text { FY } 30 \\ \text { Projected } \end{gathered}$ | $\begin{gathered} \text { Fall } 30 \\ \text { FY } 31 \\ \text { Projected } \end{gathered}$ | $\begin{aligned} & \text { Fall } 31 \\ & \text { FY } 32 \end{aligned}$ Projected | $\begin{gathered} \hline \text { \% Change } \\ \text { FY 21-32 } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| University of Maryland Global Campus |  |  |  |  |  |  |  |  |  |  |  |  |
| $\begin{aligned} & \text { FTES } \\ & \text { FTDES } \end{aligned}$ | $\begin{gathered} 37,496 \\ \mathrm{n} / \mathrm{a} \\ \hline \end{gathered}$ | $\begin{gathered} 34,410 \\ \mathrm{n} / \mathrm{a} \end{gathered}$ | 34,535 | 34,661 | 34,785 | 34,837 | 34,888 | 34,942 | 34,995 | 35,045 | $\begin{aligned} & 35,123 \\ & \mathrm{n} / \mathrm{a} \\ & \hline \end{aligned}$ | $\mathrm{n}^{-6 \%}$ |
| TOTAL USM |  |  |  |  |  |  |  |  |  |  |  |  |
| FTES | 130,365 | 124,911 | 125,414 | 125,913 | 126,407 | 126,615 | 126,821 | 127,033 | 127,242 | 127,445 | 127,752 | -2\% |
| FTDES (except UMUC) | 77,861 | 76,019 |  |  |  |  |  |  |  |  | 77,814 | 0\% |
| Morgan State University |  |  |  |  |  |  |  |  |  |  |  |  |
| FTES | 6,977 | 6,979 | 7,010 | 7,039 | 7,069 | 7,082 | 7,094 | 7,107 | 7,120 | 7,132 | 7,149 | 2\% |
| FTDES | 5,475 | 5,477 |  |  |  |  |  |  |  |  | 5,610 | 2\% |
| St. Mary's College of Maryland |  |  |  |  |  |  |  |  |  |  |  |  |
| FTES | 1,573 | 1,593 | 1,600 | 1,610 | 1,617 | 1,620 | 1,624 | 1,627 | 1,630 | 1,633 | 1,637 | 4\% |
| FTDES | 1,434 | 1,452 |  |  |  |  |  |  |  |  | 1,492 | 4\% |
| TOTAL 4-YEAR PUBLIC |  |  |  |  |  |  |  |  |  |  |  |  |
| FTES | 138,915 | 133,483 | 134,024 | 134,562 | 135,093 | 135,317 | 135,539 | 135,767 | 135,992 | 136,210 | 136,538 | -2\% |
| FTDES (except UMUC) | 84,770 | 82,948 |  |  |  |  |  |  |  |  | 84,916 | 0\% |

## Projections of Headcount Enrollment at Maryland Community Colleges

|  | $\begin{array}{r} \text { Fall } 21 \\ \text { FY } 22 \\ \text { Actual } \\ \hline \end{array}$ | $\begin{gathered} \text { Fall } 22 \\ \text { FY } 23 \\ \text { Projected } \\ \hline \end{gathered}$ | Fall 23 <br> FY 24 <br> Projected | $\begin{gathered} \text { Fall } 24 \\ \text { FY } 25 \\ \text { Projected } \\ \hline \end{gathered}$ | $\begin{gathered} \text { Fall } 25 \\ \text { FY } 26 \\ \text { Projected } \\ \hline \end{gathered}$ | Fall 26 <br> FY 27 <br> Projected | $\begin{gathered} \text { Fall } 27 \\ \text { FY } 28 \\ \text { Projected } \\ \hline \end{gathered}$ | $\begin{gathered} \text { Fall } 28 \\ \text { FY } 29 \\ \text { Projected } \\ \hline \end{gathered}$ | $\begin{gathered} \text { Fall } 29 \\ \text { FY } 30 \\ \text { Projected } \\ \hline \end{gathered}$ | Fall 30 <br> FY 31 <br> Projected | $\begin{gathered} \text { Fall } 31 \\ \text { FY 32 } \\ \text { Projected } \\ \hline \end{gathered}$ | \% Change <br> FY 22-32 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Allegany College of Maryland |  |  |  |  |  |  |  |  |  |  |  |  |
| Full-time | 777 | 1,039 | 1,044 | 1,050 | 1,056 | 1,057 | 1,058 | 1,060 | 1,061 | 1,063 | 1,065 | 37\% |
| Part-time | 1,644 | 1,904 | 1,913 | 1,921 | 1,930 | 1,933 | 1,936 | 1,940 | 1,943 | 1,946 | 1,951 | 19\% |
| Total Headcount | 2,421 | 2,943 | 2,957 | 2,971 | 2,986 | 2,990 | 2,994 | 3,000 | 3,004 | 3,009 | 3,016 | 25\% |
| Anne Arundel Community College |  |  |  |  |  |  |  |  |  |  |  |  |
| Full-time | 2,726 | 3,733 | 3,753 | 3,773 | 3,794 | 3,799 | 3,804 | 3,808 | 3,813 | 3,818 | 3,826 | 40\% |
| Part-time | 7,904 | 9,156 | 9,196 | 9,236 | 9,277 | 9,293 | 9,309 | 9,325 | 9,342 | 9,358 | 9,380 | 19\% |
| Total Headcount | 10,630 | 12,889 | 12,949 | 13,009 | 13,071 | 13,092 | 13,113 | 13,133 | 13,155 | 13,176 | 13,206 | 24\% |
| Baltimore City Community College |  |  |  |  |  |  |  |  |  |  |  |  |
| F ${ }^{\text {Full-time }}$ | 805 | 1,076 | 1,082 | 1,088 | 1,094 | 1,095 | 1,097 | 1,098 | 1,099 | 1,101 | 1,103 | 37\% |
| Part-time | 3,059 | 3,519 | 3,534 | 3,550 | 3,565 | 3,572 | 3,578 | 3,584 | 3,591 | 3,597 | 3,605 | 18\% |
| Total Headcount | 3,864 | 4,595 | 4,616 | 4,638 | 4,659 | 4,667 | 4,675 | 4,682 | 4,690 | 4,698 | 4,708 | 22\% |
| Carroll Community College |  |  |  |  |  |  |  |  |  |  |  |  |
| Full-time | 891 | 1,191 | 1,198 | 1,204 | 1,211 | 1,212 | 1,214 | 1,215 | 1,217 | 1,219 | 1,221 | 37\% |
| Part-time | 1,875 | 2,159 | 2,168 | 2,178 | 2,187 | 2,191 | 2,195 | 2,199 | 2,203 | 2,207 | 2,212 | 18\% |
| Total Headcount | 2,766 | 3,350 | 3,366 | 3,382 | 3,398 | 3,403 | 3,409 | 3,414 | 3,420 | 3,426 | 3,433 | 24\% |
| Community College of Baltimore County |  |  |  |  |  |  |  |  |  |  |  |  |
| Full-time | 4,181 | 5,590 | 5,620 | 5,650 | 5,681 | 5,689 | 5,696 | 5,703 | 5,710 | 5,718 | 5,729 | 37\% |
| Part-time | 11,945 | 13,687 | 13,747 | 13,807 | 13,868 | 13,892 | 13,916 | 13,940 | 13,966 | 13,989 | 14,022 | 17\% |
| Total Headcount | 16,126 | 19,277 | 19,367 | 19,457 | 19,549 | 19,581 | 19,612 | 19,643 | 19,676 | 19,707 | 19,751 | 22\% |
| Cecil College |  |  |  |  |  |  |  |  |  |  |  |  |
| Full-time | 515 | 689 | 692 | 696 | 700 | 701 | 702 | 702 | 703 | 704 | 706 | 37\% |
| Part-time | 1,268 | 1,469 | 1,475 | 1,482 | 1,488 | 1,491 | 1,493 | 1,496 | 1,499 | 1,501 | 1,505 | 19\% |
| Total Headcount | 1,783 | 2,158 | 2,167 | 2,178 | 2,188 | 2,192 | 2,195 | 2,198 | 2,202 | 2,205 | 2,211 | 24\% |
| Chesapeake College |  |  |  |  |  |  |  |  |  |  |  |  |
| Full-time | 413 | 553 | 556 | 559 | 562 | 562 | 563 | 564 | 564 | 565 | 566 | 37\% |
| Part-time | 1,325 | 1,482 | 1,489 | 1,495 | 1,502 | 1,504 | 1,507 | 1,510 | 1,512 | 1,515 | 1,518 | 15\% |
| Total Headcount | 1,738 | 2,035 | 2,045 | 2,054 | 2,064 | 2,066 | 2,070 | 2,074 | 2,076 | 2,080 | 2,084 | 20\% |
| Frederick Community College |  |  |  |  |  |  |  |  |  |  |  |  |
| Full-time | 1,537 | 2,041 | 2,052 | 2,064 | 2,075 | 2,078 | 2,080 | 2,083 | 2,085 | 2,088 | 2,092 | 36\% |
| Part-time | 3,852 | 4,462 | 4,482 | 4,501 | 4,521 | 4,529 | 4,537 | 4,545 | 4,553 | 4,561 | 4,571 | 19\% |
| Total Headcount | 5,389 | 6,503 | 6,534 | 6,565 | 6,596 | 6,607 | 6,617 | 6,628 | 6,638 | 6,649 | 6,663 | 24\% |
| Garrett College |  |  |  |  |  |  |  |  |  |  |  |  |
| \| Full-time | 292 | 390 | 393 | 395 | 397 | 397 | 398 | 398 | 399 | 399 | 400 | 37\% |

## Projections of Headcount Enrollment at Maryland Community Colleges

|  | Fall 21 FY 22 Actual | $\begin{gathered} \text { Fall } 22 \\ \text { FY } 23 \\ \text { Projected } \\ \hline \end{gathered}$ | Fall 23 <br> FY 24 <br> Projected | $\begin{gathered} \text { Fall } 24 \\ \text { FY } 25 \\ \text { Projected } \\ \hline \end{gathered}$ | Fall 25 <br> FY 26 <br> Projected | $\begin{gathered} \text { Fall } 26 \\ \text { FY } 27 \\ \text { Projected } \\ \hline \end{gathered}$ | Fall 27 <br> FY 28 <br> Projected | $\begin{gathered} \text { Fall } 28 \\ \text { FY } 29 \\ \text { Projected } \\ \hline \end{gathered}$ | $\begin{gathered} \text { Fall } 29 \\ \text { FY } 30 \\ \text { Projected } \\ \hline \end{gathered}$ | Fall 30 <br> FY 31 <br> Projected | Fall 31 <br> FY 32 <br> Projected | \% Change <br> FY 22-32 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Part-time | 286 | 322 | 324 | 325 | 327 | 327 | 328 | 328 | 329 | 330 | 330 | 15\% |
| Total Headcount | 578 | 712 | 717 | 720 | 724 | 724 | 726 | 726 | 728 | 729 | 730 | 26\% |
| Hagerstown Community College |  |  |  |  |  |  |  |  |  |  |  |  |
| Full-time | 1,136 | 1,519 | 1,527 | 1,535 | 1,544 | 1,546 | 1,548 | 1,550 | 1,551 | 1,554 | 1,557 | 37\% |
| Part-time | 2,396 | 2,729 | 2,741 | 2,753 | 2,765 | 2,770 | 2,774 | 2,779 | 2,784 | 2,789 | 2,796 | 17\% |
| Total Headcount | 3,532 | 4,248 | 4,268 | 4,288 | 4,309 | 4,316 | 4,322 | 4,329 | 4,335 | 4,343 | 4,353 | 23\% |
| Harford Community College |  |  |  |  |  |  |  |  |  |  |  |  |
| Full-time | 1,590 | 2,121 | 2,133 | 2,145 | 2,156 | 2,159 | 2,162 | 2,165 | 2,167 | 2,170 | 2,174 | 37\% |
| Part-time | 3,006 | 3,482 | 3,498 | 3,513 | 3,528 | 3,534 | 3,540 | 3,547 | 3,553 | 3,559 | 3,568 | 19\% |
| Total Headcount | 4,596 | 5,603 | 5,631 | 5,658 | 5,684 | 5,693 | 5,702 | 5,712 | 5,720 | 5,729 | 5,742 | 25\% |
| Howard Community College |  |  |  |  |  |  |  |  |  |  |  |  |
| Full-time | 2,377 | 3,178 | 3,195 | 3,212 | 3,230 | 3,234 | 3,238 | 3,242 | 3,246 | 3,251 | 3,257 | 37\% |
| Part-time | 5,703 | 6,703 | 6,733 | 6,762 | 6,792 | 6,804 | 6,816 | 6,827 | 6,840 | 6,851 | 6,868 | 20\% |
| Total Headcount | 8,080 | 9,881 | 9,928 | 9,974 | 10,022 | 10,038 | 10,054 | 10,069 | 10,086 | 10,102 | 10,125 | 25\% |
| Montgomery College |  |  |  |  |  |  |  |  |  |  |  |  |
| F Full-time | 5,801 | 7,773 | 7,815 | 7,857 | 7,900 | 7,911 | 7,920 | 7,931 | 7,941 | 7,951 | 7,967 | 37\% |
| Part-time | 11,483 | 13,302 | 13,361 | 13,419 | 13,478 | 13,501 | 13,525 | 13,548 | 13,573 | 13,596 | 13,628 | 19\% |
| Total Headcount | 17,284 | 21,075 | 21,176 | 21,276 | 21,378 | 21,412 | 21,445 | 21,479 | 21,514 | 21,547 | 21,595 | 25\% |
| College of Southern Maryland |  |  |  |  |  |  |  |  |  |  |  |  |
| Full-time | 2,061 | 2,649 | 2,664 | 2,678 | 2,693 | 2,696 | 2,700 | 2,703 | 2,706 | 2,710 | 2,715 | 32\% |
| Part-time | 3,599 | 4,211 | 4,230 | 4,248 | 4,267 | 4,274 | 4,282 | 4,289 | 4,297 | 4,304 | 4,315 | 20\% |
| Total Headcount | 5,660 | 6,860 | 6,894 | 6,926 | 6,960 | 6,970 | 6,982 | 6,992 | 7,003 | 7,014 | 7,030 | 24\% |
| Prince George's Community College |  |  |  |  |  |  |  |  |  |  |  |  |
| Full-time | 3,145 | 4,205 | 4,227 | 4,250 | 4,273 | 4,279 | 4,284 | 4,290 | 4,295 | 4,301 | 4,310 | 37\% |
| Part-time | 7,432 | 8,676 | 8,714 | 8,752 | 8,790 | 8,806 | 8,821 | 8,836 | 8,853 | 8,868 | 8,889 | 20\% |
| Total Headcount | 10,577 | 12,881 | 12,941 | 13,002 | 13,063 | 13,085 | 13,105 | 13,126 | 13,148 | 13,169 | 13,199 | 25\% |
| Wor-Wic Community College |  |  |  |  |  |  |  |  |  |  |  |  |
| Full-time | 504 | 728 | 732 | 736 | 740 | 741 | 742 | 743 | 744 | 745 | 747 | 48\% |
| Part-time | 1,930 | 2,236 | 2,246 | 2,255 | 2,265 | 2,269 | 2,273 | 2,277 | 2,281 | 2,285 | 2,290 | 19\% |
| Total Headcount | 2,434 | 2,964 | 2,978 | 2,991 | 3,005 | 3,010 | 3,015 | 3,020 | 3,025 | 3,030 | 3,037 | 25\% |
| Total Community Colleges |  |  |  |  |  |  |  |  |  |  |  |  |
| Full-time | 28,751 | 38,475 | 38,683 | 38,892 | 39,106 | 39,156 | 39,206 | 39,255 | 39,301 | 39,357 | 39,435 | 37\% |
| Part-time | 68,707 | 79,499 | 79,851 | 80,197 | 80,550 | 80,690 | 80,830 | 80,970 | 81,119 | 81,256 | 81,448 | 19\% |
| Total Headcount | 97,458 | 117,974 | 118,534 | 119,089 | 119,656 | 119,846 | 120,036 | 120,225 | 120,420 | 120,613 | 120,883 | 24\% |

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

|  | $\begin{gathered} \text { Fall } 20 \\ \text { FY } 21^{11} \\ \text { Actual } \\ \hline \end{gathered}$ | $\begin{gathered} \text { Fall } 22 \\ \text { FY } 23 \\ \text { Projected } \\ \hline \end{gathered}$ | $\begin{gathered} \text { Fall } 23 \\ \text { FY } 24 \\ \text { Projected } \\ \hline \end{gathered}$ | $\begin{gathered} \text { Fall } 24 \\ \text { FY } 25 \\ \text { Projected } \\ \hline \end{gathered}$ | $\begin{gathered} \text { Fall } 25 \\ \text { FY } 26 \\ \text { Projected } \\ \hline \end{gathered}$ | $\begin{gathered} \text { Fall } 26 \\ \text { FY } 27 \\ \text { Projected } \end{gathered}$ | $\begin{gathered} \text { Fall } 27 \\ \text { FY } 28 \\ \text { Projected } \\ \hline \end{gathered}$ | $\begin{gathered} \text { Fall } 28 \\ \text { FY } 29 \\ \text { Projected } \end{gathered}$ | $\begin{gathered} \text { Fall } 29 \\ \text { FY } 30 \\ \text { Projected } \end{gathered}$ | $\begin{gathered} \text { Fall 30 } \\ \text { FY } 31 \\ \text { Projected } \end{gathered}$ | $\begin{gathered} \text { Fall 31 } \\ \text { FY 32 } \\ \text { Projected } \\ \hline \end{gathered}$ | $\begin{aligned} & \text { \% Change } \\ & \text { FY 21-32 } \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Allegany College of Maryland |  |  |  |  |  |  |  |  |  |  |  |  |
| FTES | 1,482 | 1,720 | 1,729 | 1,738 | 1,747 | 1,749 | 1,751 | 1,754 | 1,756 | 1,759 | 1,763 | 19\% |
| FTDES | 1,047 | 1,216 |  |  |  |  |  |  |  |  | 1,246 | 19\% |
| Anne Arundel Community College |  |  |  |  |  |  |  |  |  |  |  |  |
| FTES | 6,942 | 7,668 | 7,706 | 7,744 | 7,783 | 7,795 | 7,806 | 7,817 | 7,829 | 7,841 | 7,858 | 13\% |
| FTDES | 4,585 | 5,065 |  |  |  |  |  |  |  |  | 5,191 | 13\% |
| Baltimore City Community College |  |  |  |  |  |  |  |  |  |  |  |  |
| FTES | 2,437 | 2,553 | 2,566 | 2,578 | 2,591 | 2,595 | 2,599 | 2,603 | 2,606 | 2,611 | 2,616 | 7\% |
| FTDES | 1,717 | 1,799 |  |  |  |  |  |  |  |  | 1,843 | 7\% |
| Carroll Community College |  |  |  |  |  |  |  |  |  |  |  |  |
| FTES | 1,832 | 2,101 | 2,112 | 2,122 | 2,133 | 2,136 | 2,139 | 2,142 | 2,145 | 2,149 | 2,153 | 18\% |
| FTDES | 1,608 | 1,844 |  |  |  |  |  |  |  |  | 1,890 | 18\% |
| Community College of Baltimore County |  |  |  |  |  |  |  |  |  |  |  |  |
| FTES | 10,354 | 11,492 | 11,549 | 11,606 | 11,664 | 11,682 | 11,699 | 11,716 | 11,734 | 11,751 | 11,776 | 14\% |
| FTDES | 5,867 | 6,511 |  |  |  |  |  |  |  |  | 6,672 | 14\% |
| Cecil College |  |  |  |  |  |  |  |  |  |  |  |  |
| FTES | 1,165 | 1,240 | 1,245 | 1,252 | 1,258 | 1,260 | 1,262 | 1,263 | 1,265 | 1,267 | 1,270 | 9\% |
| FTDES | 836 | 890 |  |  |  |  |  |  |  |  | 912 | 9\% |
| Chesapeake College |  |  |  |  |  |  |  |  |  |  |  |  |
| FTES | 1,048 | 1,116 | 1,122 | 1,127 | 1,133 | 1,134 | 1,136 | 1,138 | 1,139 | 1,141 | 1,143 | 9\% |
| FTDES | 699 | 744 |  |  |  |  |  |  |  |  | 762 | 9\% |
| Frederick Community College |  |  |  |  |  |  |  |  |  |  |  |  |
| FTES | 3,263 | 3,746 | 3,764 | 3,784 | 3,803 | 3,809 | 3,814 | 3,820 | 3,825 | 3,831 | 3,838 | 18\% |
| FTDES | 2,114 | 2,427 |  |  |  |  |  |  |  |  | 2,486 | 18\% |
| Garrett College |  |  |  |  |  |  |  |  |  |  |  |  |
| FTES | 399 | 466 | 470 | 472 | 474 | 474 | 476 | 476 | 477 | 477 | 478 | 20\% |
| FTDES | 302 | 353 |  |  |  |  |  |  |  |  | 363 | 20\% |
| Hagerstown Community College |  |  |  |  |  |  |  |  |  |  |  |  |
| FTES | 2,266 | 2,989 | 3,004 | 3,018 | 3,034 | 3,039 | 3,043 | 3,048 | 3,051 | 3,057 | 3,063 | 35\% |
| FTDES | 1,355 | 1,787 |  |  |  |  |  |  |  |  | 1,831 | 35\% |

[^7]Projections of Full-Time Equivalent and Full-Time Day Equivalent Enrollment at Maryland Community Colleges

|  | $\begin{aligned} & \hline \text { Fall } 20 \\ & \text { FY } 21 \\ & \text { Actual } \\ & \hline \end{aligned}$ | $\begin{gathered} \text { Fall } 22 \\ \text { FY } 23 \\ \text { Projected } \\ \hline \end{gathered}$ | $\begin{gathered} \text { Fall } 23 \\ \text { FY } 24 \\ \text { Projected } \\ \hline \end{gathered}$ | $\begin{gathered} \text { Fall } 24 \\ \text { FY } 25 \\ \text { Projected } \\ \hline \end{gathered}$ | $\begin{gathered} \text { Fall } 25 \\ \text { FY } 26 \\ \text { Projected } \\ \hline \end{gathered}$ | $\begin{gathered} \text { Fall } 26 \\ \text { FY } 27 \\ \text { Projected } \\ \hline \end{gathered}$ | $\begin{gathered} \text { Fall } 27 \\ \text { FY } 28 \\ \text { Projected } \\ \hline \end{gathered}$ | $\begin{gathered} \text { Fall } 28 \\ \text { FY } 29 \\ \text { Projected } \\ \hline \end{gathered}$ | $\begin{gathered} \text { Fall } 29 \\ \text { FY } 30 \\ \text { Projected } \\ \hline \end{gathered}$ | $\begin{gathered} \text { Fall 30 } \\ \text { FY 31 } \\ \text { Projected } \\ \hline \end{gathered}$ | $\begin{gathered} \text { Fall } 31 \\ \text { FY } 32 \\ \text { Projected } \\ \hline \end{gathered}$ | $\begin{aligned} & \text { \% Change } \\ & \text { FY 21-32 } \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Harford Community College |  |  |  |  |  |  |  |  |  |  |  |  |
| FTES | 3,167 | 3,567 | 3,586 | 3,604 | 3,622 | 3,627 | 3,633 | 3,638 | 3,643 | 3,648 | 3,656 | 15\% |
| FTDES | 2,243 | 2,526 |  |  |  |  |  |  |  |  | 2,589 | 15\% |
| Howard Community College |  |  |  |  |  |  |  |  |  |  |  |  |
| FTES | 5,748 | 6,281 | 6,312 | 6,343 | 6,376 | 6,385 | 6,394 | 6,403 | 6,413 | 6,423 | 6,436 | 12\% |
| FTDES | 4,117 | 4,499 |  |  |  |  |  |  |  |  | 4,610 | 12\% |
| Montgomery College |  |  |  |  |  |  |  |  |  |  |  |  |
| FTES | 13,010 | 13,934 | 14,005 | 14,075 | 14,146 | 14,168 | 14,187 | 14,208 | 14,229 | 14,250 | 14,280 | 10\% |
| FTDES | 9,943 | 10,649 |  |  |  |  |  |  |  |  | 10,913 | 10\% |
| College of Southern Maryland |  |  |  |  |  |  |  |  |  |  |  |  |
| FTES | 3,858 | 4,505 | 4,529 | 4,551 | 4,575 | 4,581 | 4,588 | 4,594 | 4,600 | 4,607 | 4,617 | 20\% |
| FTDES | 2,452 | 2,863 |  |  |  |  |  |  |  |  | 2,935 | 20\% |
| Prince George's Community College |  |  |  |  |  |  |  |  |  |  |  |  |
| FTES | 7,659 | 8,479 | 8,520 | 8,563 | 8,605 | 8,619 | 8,631 | 8,644 | 8,657 | 8,670 | 8,689 | 13\% |
| FTDES | 3,887 | 4,304 |  |  |  |  |  |  |  |  | 4,411 | 13\% |
| Wor-Wic Community College |  |  |  |  |  |  |  |  |  |  |  |  |
| FTES | 1,531 | 1,651 | 1,659 | 1,667 | 1,675 | 1,678 | 1,681 | 1,683 | 1,686 | 1,688 | 1,692 | 10\% |
| FTDES | 1,121 | 1,209 |  |  |  |  |  |  |  |  | 1,239 | 11\% |
| Total Community Colleges |  |  |  |  |  |  |  |  |  |  |  |  |
| FTES | 66,160 | 73,508 | 73,878 | 74,244 | 74,619 | 74,731 | 74,839 | 74,947 | 75,055 | 75,170 | 75,328 | 14\% |
| FTDES | 43,893 | 48,686 |  |  |  |  |  |  |  |  | 49,893 | 14\% |

## MARYLAND HIGHER EDUCATION COMMISSION

 Enrollment Projection Model - Noncredit Continuing Education at Community CollegesThese are the assumptions and steps used in projecting the state-eligible full-time equivalent (FTE) noncredit continuing education enrollments at Maryland community colleges.

## ASSUMPTION

- Noncredit continuing education enrollments at community colleges can be forecasted by past noncredit enrollments at each campus.


## STEP

1. The projected noncredit continuing education enrollment at each Maryland community college is estimated by the use of a first-order autoregressive model on the previous noncredit continuing education enrollment. ${ }^{12}$
[^8]PROJECTED STATE FUNDED NONCREDIT FULL-TIME EQUIVALENT TRENDS
MARYLAND COMMUNITY COLLEGES
FISCAL YEARS 2023-2032 ${ }^{13}$

| College | $\begin{array}{r} \text { Fall } 20 \\ \text { FY } 21^{14} \\ \text { Actual } \\ \hline \end{array}$ | Fall 22 FY 23 Projected | Fall 23 FY 24 Projected | Fall 24 FY 25 Projected | Fall 25 FY 26 Projected | Fall 26 FY 27 Projected | Fall 27 FY 28 Projected | Fall 28 FY 29 Projected | Fall 29 FY 30 Projected | Fall 30 FY 31 Projected | Fall 31 FY 32 Projected | Percent Change FY 21-32 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Allegany College of Maryland | 306 | 461 | 452 | 453 | 452 | 452 | 452 | 452 | 452 | 452 | 452 | 48\% |
| Anne Arundel Community College | 1,697 | 1,769 | 1,837 | 1,901 | 1,962 | 2,019 | 2,073 | 2,124 | 2,173 | 2,218 | 2,262 | 33\% |
| Baltimore City Community College | 822 | 871 | 917 | 960 | 1,001 | 1,039 | 1,075 | 1,109 | 1,141 | 1,171 | 1,199 | 46\% |
| Carroll Community College | 307 | 322 | 336 | 349 | 361 | 372 | 382 | 391 | 399 | 407 | 414 | 35\% |
| Community College of Baltimore County | 3,458 | 3,729 | 3,901 | 4,010 | 4,079 | 4,123 | 4,151 | 4,168 | 4,179 | 4,186 | 4,191 | 21\% |
| Cecil College | 182 | 197 | 211 | 224 | 236 | 247 | 257 | 267 | 275 | 283 | 291 | 60\% |
| Chesapeake College | 291 | 368 | 430 | 479 | 519 | 550 | 575 | 595 | 611 | 624 | 634 | 118\% |
| Frederick Community College | 395 | 421 | 438 | 450 | 459 | 464 | 468 | 471 | 473 | 474 | 475 | 20\% |
| Garrett College | 143 | 149 | 155 | 159 | 162 | 165 | 167 | 168 | 170 | 171 | 171 | 20\% |
| Hagerstown Community College | 645 | 772 | 704 | 740 | 721 | 731 | 726 | 728 | 727 | 728 | 727 | 13\% |
| Harford Community College | 554 | 574 | 592 | 610 | 626 | 641 | 656 | 669 | 682 | 694 | 705 | 27\% |
| Howard Community College | 855 | 915 | 966 | 1,009 | 1,046 | 1,076 | 1,103 | 1,125 | 1,143 | 1,159 | 1,173 | 37\% |
| Montgomery College | 2,265 | 2,522 | 2,657 | 2,728 | 2,765 | 2,785 | 2,795 | 2,801 | 2,804 | 2,805 | 2,806 | 24\% |
| College of Southern Maryland | 519 | 540 | 558 | 573 | 585 | 595 | 604 | 611 | 617 | 622 | 626 | 21\% |
| Prince George's Community College | 1,495 | 2,197 | 2,678 | 3,006 | 3,231 | 3,385 | 3,490 | 3,562 | 3,611 | 3,644 | 3,667 | 145\% |
| Wor-Wic Community College | 470 | 592 | 650 | 678 | 691 | 697 | 700 | 701 | 702 | 702 | 702 | 49\% |
| SYSTEMWIDE | 14,404 | 16,399 | 17,482 | 18,329 | 18,894 | 19,342 | 19,673 | 19,943 | 20,159 | 20,341 | 20,495 | 42\% |

[^9]
[^0]:    ${ }^{1}$ For more details about this decision, please see Enrollment Projection 2021-2030 report here
    https://mhec.maryland.gov/publications/Documents/Research/AnnualReports/2021-30EnrollProjections.pdf

[^1]:    Yuxin Lin, Ph.D.
    Principal Author

[^2]:    ${ }^{2}$ The Enrollment Information System (EIS) is a unit record collection provided by each public and state-aided institution in the state. The collection, which reflects enrollment at the time of census or freeze date, may slightly underreport the actual number of students enrolled in a given fall due to the nature and timing of the collection.
    ${ }^{3}$ The enrollment of community colleges have been declining since the peak after the Great Recession. Without solid evidence, the downward trend might continue under the long-term impact of COVID-19. Therefore, the actual enrollment of community college in Fall 2022 is probably lower than the level in Fall 2021 and the projected Fall 2022 enrollment.

[^3]:    ${ }^{4}$ These assumptions were established by the originators of the model in the 1990s.
    ${ }^{5}$ In the 2022-2031 projections, only the impact of tuition on part-time community college enrollment was included because the historical relationship between tuition and
    full-time community college enrollment was not significant.
    ${ }^{6}$ In the 2022-2031 projections, the impact of income on full-time undergraduate enrollments at public four-year institutions was excluded because the historical relationship between income and full-time undergraduate enrollments at public four-year institutions was not significant.
    ${ }^{7}$ Market share is the share of enrollment of each institution to the statewide enrollment.

[^4]:    ${ }^{8}$ Headcount-driven FTE and credit hour-driven FTE refer to the two different methods to calculate FTE enrollment. Headcount-driven FTE refers to the method based on the headcount enrollment of full-time and part-time students (the total number of full-time students plus one-third of the part-time students), while credit hour-driven FTE refers to the method based on the total credits taken by full-time and part-time students (total credits divided by 15).

[^5]:    ${ }^{9}$ Due to the COVID-19 pandemic, the counts of FTDES for Fall 2020 were substantially lower than the previous years' data; this was because most of students were enrolled in courses that were delivered remotely. Therefore, the historical relationship between credit hour-driven FTES to FTDES only uses the FTDES of Fall 2018 and 2019 with the assumption that the FTDES of Fall 2020 would be the same to the Fall 2019 if the impact of the COVID-19 pandemic was not felt.

[^6]:    ${ }^{10}$ The source of the FTE and FTDE data is from fiscal documents (e.g., Budget Book and CC4) and the data are collected at the end of each fiscal year so there is a oneyear delay on the actual data.

[^7]:    ${ }^{11}$ The source of the FTE and FTDE data is from fiscal documents (e.g., Budget Book and CC4) and the data are collected at the end of each fiscal year so there is a oneyear delay on the actual data.

[^8]:    ${ }^{12}$ An autoregressive model is when a value from a time series is regressed on previous values from that same time series. This model used 12 years of past data (20102021),

[^9]:    ${ }^{13}$ The autoregressive model predicts future values based on past values. For some colleges (e.g., Chesapeake and Prince George's Community College) the FY21 value shown in the table is a drastic reduction from their FY20 and earlier values. The model projects their non-credit enrollments would return to the earlier values in the future.
    ${ }^{14}$ The source of the FTE and FTDE data is from fiscal documents (e.g., Budget Book and CC4) and the data are collected at the end of each fiscal year so there is a oneyear delay on the actual data.

