

Executive Summary

The Economic Value of Baltimore City Community College



ALTIMORE CITY COMMUNITY COLLEGE (BCCC) creates value in many ways. The College plays a key role in helping students increase their employability and achieve their individual potential. The College draws students to the region, generating new dollars and opportunities for the Baltimore City Service Area. BCCC provides students with the education, training, and skills they need to have fulfilling and prosperous careers. Furthermore, BCCC is a place for students to meet new people, increase their self-confidence, and promote their overall health and well-being.

BCCC influences both the lives of its students and the regional economy. The College supports a variety of industries in the Baltimore City Service Area, serves regional businesses, and benefits society as a whole in Maryland from an expanded economy and improved quality of life. The benefits created by BCCC even extend to the state and local government through increased tax revenues and public sector savings.

This study measures the economic impacts created by BCCC on the business community and the benefits the College generates in return for the investments made by its key stakeholder groups-students, taxpayers, and society. The Economic Impact Analysis and the Investment Analysis are detailed on the following pages.

All results reflect employee, student, and financial data, provided by the College, for fiscal year (FY) 2019. The FY 2019 was chosen as the analysis year for this study as it is representative of the pre-Covid operations of the College. Impacts on the Baltimore City Service Area economy are reported under the Economic Impact Analysis and are measured in terms of added income. The returns on investment to students, taxpayers, and society in Maryland are reported under the Investment Analysis.



BCCC influences both the lives of its students and the regional economy.

^{*} For the purposes of this analysis, the Baltimore City Service Area is comprised of Baltimore City.

ECONOMIC IMPACT ANALYSIS



BCCC promotes economic growth in the Baltimore City Service Area through its direct expenditures and the resulting expenditures of students and regional businesses. The College serves as an employer and buyer of goods and services for its day-to-day operations and construction. The College's activities attract students from outside the Baltimore City Service Area, whose expenditures benefit regional vendors. In addition, BCCC is a primary source of higher education to the Baltimore City Service Area residents and a supplier of trained workers to regional industries, enhancing overall productivity in the regional workforce.

Operations Spending Impact



BCCC adds economic value to the Baltimore City Service Area as an employer of regional residents and a large-scale buyer of goods and services. In FY 2019, the College employed 767 full-time and

part-time faculty and staff, 54% of whom lived in the Baltimore City Service Area. Total payroll at BCCC was \$45 million, much of which was spent in the region for groceries, mortgage and rent payments, dining out, and other household expenses. In addition, the College spent \$28.3 million on day-to-day expenses related to facilities, supplies, and professional services.

BCCC's day-to-day operations spending added \$60.8 million in income to the region during the analysis year. This figure represents the College's payroll, the multiplier effects generated by the in-region spending of the College and its employees, and a downward adjustment to account for funding that the College received from regional sources. The \$60.8 million in added income is equivalent to supporting 900 jobs in the region.

Construction Spending Impact

BCCC invests in construction each year to maintain its facilities, create additional capacities, and meet its growing educational demands. While the amount varies from year to year, these guick infusions of income and jobs have a substantial impact on the regional economy. In FY 2019, BCCC's construction spending generated \$716.5 thousand in added income, which is equivalent to supporting eight jobs.

TOTAL IMPACTS CREATED BY BCCC IN FY 2019



Operations spending impact

\$60.8 million





Construction spending impact

\$716.5 thousand





Student spending impact

S8 million





Alumni impact

\$272.9 million



TOTAL ECONOMIC IMPACT \$342.4 million

OR

Jobs supported

4,047

Student Spending Impact



Around 14% of credit students attending BCCC originated from outside the region in FY 2019, and some of these students relocated to the Baltimore City Service Area to attend BCCC. These students

may not have come to the region if the College did not exist. In addition, some in-region students, referred to as retained students, would have left the Baltimore City Service Area if not for the existence of BCCC. While attending the College, these relocated and retained students spent money on groceries, accommodation, transportation, and other household expenses. This spending generated \$8 million in added income for the regional economy in FY 2019, which supported 137 jobs in the Baltimore City Service Area.

Alumni Impact



The education and training BCCC provides for regional residents has the greatest impact. Since its establishment, students have studied at BCCC and entered the regional workforce with greater knowledge

and new skills. Today, thousands of former BCCC students are employed in the Baltimore City Service Area. As a result of their BCCC educations, the students receive higher earnings and increase the productivity of the businesses that employ them. In FY 2019, BCCC alumni generated \$272.9 million in added income for the regional economy, which is equivalent to supporting 3,002 jobs.

Total Impact

BCCC added \$342.4 million in income to the Baltimore City Service Area economy during the analysis year, equal to the sum of the operations and construction spending impacts, the student spending impact, and the alumni impact. For context, the \$342.4 million impact was equal to approximately 0.3% of the total gross regional product (GRP) of the Baltimore City Service Area.

BCCC's total impact can also be expressed in terms of jobs supported. The \$342.4 million impact supported 4,047 regional jobs, using the jobs-to-sales ratios specific to each industry in the region. In addition, the \$342.4 million, or 4,047 supported jobs, stemmed from different industry sectors. Among non-education industry sectors, BCCC's spending and alumni in the Health Care & Social Assistance industry sector supported 1,162 jobs in FY 2019. These are impacts that would not have been generated without the College's presence in the Baltimore City Service Area.

BCCC IMPACTS BY INDUSTRY (JOBS SUPPORTED)



1,162

Health Care & Social Assistance



293

Professional & Technical Services



231

Government, Non-Education



216

Retail Trade



Other Services (except Public Administration)

INVESTMENT ANALYSIS



An investment analysis evaluates the costs associated with a proposed venture against its expected benefits. If the benefits outweigh the costs, then the investment is financially worthwhile. The analysis presented here considers BCCC as an investment from the perspectives of students, taxpayers, and society in Maryland.

Student Perspective



In FY 2019, BCCC served 6,694 credit and 6,483 non-credit students. In order to attend the College, the students paid for tuition, fees, books, and supplies. They also gave up money they would have

otherwise earned had they been working instead of attending College. The total investment made by BCCC's students in FY 2019 amounted to a present value of \$44.5 million, equal to \$10.7 million in out-of-pocket expenses and \$33.8 million in forgone time and money.

In return for their investment, BCCC's students will receive a stream of higher future earnings that will continue to grow throughout their working lives. For example, the average BCCC associate degree graduate from FY 2019 will see annual earnings that are \$9,600 higher than a person with a high school diploma or equivalent working in Maryland. Over a working lifetime, the benefits of the associate degree over a high school diploma will amount to an undiscounted value of \$316.8 thousand in higher earnings per graduate. The present value of the cumulative higher future earnings that BCCC's FY 2019 students will receive over their working careers is \$152.9 million.

The students' benefit-cost ratio is 3.4. In other words, for every dollar students invest in BCCC, in the form of out-of-pocket expenses and forgone time and money, they will receive a cumulative value of \$3.40 in higher future earnings. Annually, the students' investment in BCCC has an average annual internal rate of

STUDENTS SEE A HIGH RATE OF RETURN FOR THEIR INVESTMENT IN BCCC



Average annual return for **BCCC** students

18.3%



Stock market 30-year average annual return

9.9%



Interest earned on savings account (National Rate Cap)

0.8%

Source: Forbes' S&P 500, 1989-2018. FDIC.gov, 6-2019.

The average associate degree graduate from BCCC will see an increase in earnings of \$9,600 each year compared to a person with a high school diploma or equivalent working in Maryland.



Source: Emsi Burning Glass employment data.

return of 18.3%, which is impressive compared to the U.S. stock market's 30-year average rate of return of 9.9%.

Taxpayer Perspective



BCCC generates substantial benefits for taxpayers. These benefits to taxpayers consist primarily of taxes that the state and local government will collect from the added revenue created in the state. As

BCCC students will earn more, they will make higher tax payments throughout their working lives. Students' employers will also make higher tax payments as they increase their output and purchases of goods and services. By the end of

the FY 2019 students' working lives, the state and local government will have collected a present value of \$37.2 million in added taxes.

Benefits to taxpayers will also consist of savings generated by the improved lifestyles of BCCC students and the corresponding reduced government services. Education is statistically correlated with a variety of lifestyle changes.

Total taxpayer benefits amount to \$42 million, the present value sum of the added tax revenues and public sector savings.

Students' BCCC educations will generate savings in three main categories: 1) healthcare, 2) crime, and 3) income assistance. Improved health will lower students' demand for national health care services. In addition, students will be less likely to interact with the criminal justice system, resulting in a reduced demand for law enforcement and victim costs. BCCC students will be more employable, so their reduced demand for income assistance such as welfare and unemployment benefits will benefit taxpayers. For a list of study references, contact the College for a copy of the main report. Altogether, the present value of the benefits associated with a BCCC education will generate \$4.8 million in savings to state and local taxpayers.

Total taxpayer benefits amount to \$42 million, the present value sum of the added taxes and public sector savings. Taxpayer costs are \$42.3 million, equal to the amount of state and local government funding BCCC received in FY 2019.

Social Perspective

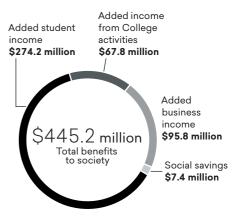


Society as a whole in Maryland benefits from the presence of BCCC in two major ways. Primarily, society benefits from an increased economic base in the state. This is attributed to the added income from

students' increased lifetime earnings (added student income) and increased business output (added business income), which raise economic prosperity in Maryland.

Benefits to society also consist of the savings generated by the improved lifestyles of BCCC students. As discussed in the previous section, education is statistically correlated with a variety of lifestyle changes that generate social savings. Note that these costs are avoided by the consumers but are distinct from the costs

SOCIAL BENEFITS IN MARYLAND FROM BCCC



Source: Emsi Burning Glass impact model.

avoided by the taxpayers outlined above. Healthcare savings include avoided medical costs associated with smoking, alcohol dependence, obesity, drug abuse, and depression. Savings related to crime include reduced security expenditures and insurance administration, lower victim costs, and reduced expenditures by the criminal justice system. Income assistance savings include reduced welfare and unemployment claims. For a list of study references, contact the College for a copy of the main report.

Altogether, the social benefits of BCCC equal a present value of \$445.2 million. These benefits include \$274.2 million in added student income, \$95.8 million in added business income, \$67.8 million in added income from College activities, as well as \$7.4 million in social savings related to health, crime, and income assistance in Maryland. People in Maryland invested a present value total of \$113.1 million in BCCC in FY 2019. The cost includes all the College and student costs.

The benefit-cost ratio for society is 3.9, equal to the \$445.2 million in benefits divided by the \$113.1 million in costs. In other words, for every dollar invested in BCCC, people in Maryland will receive a cumulative value of \$3.90 in benefits. The benefits of this investment will occur for as long as BCCC's FY 2019 students remain employed in the state workforce.

Summary of Investment Analysis Results

The results of the analysis demonstrate that BCCC is a strong investment for students and society. As shown, students receive a great return for their investments in a BCCC education. From the taxpayers' perspective, the benefits generated by the College and its students recover a significant portion of the costs borne by taxpayers and creates a wide range of social benefits throughout Maryland.





STUDENT PERSPECTIVE

Present value benefits

S152.9 million

Present value costs

\$44.5 million

Net present value

\$108.4 million

Benefit-cost ratio

Rate of return

3.4

18.3%



TAXPAYER PERSPECTIVE

Present value benefits

\$42 million

Present value costs

\$42.3 million



SOCIAL PERSPECTIVE

Present value benefits

S445.2 million

Present value costs

\$113.1 million

Net present value

\$332.1 million

Benefit-cost ratio 3.9

Rate of return

n/a^{*}

* The rate of return is not reported for the social perspective because the beneficiaries of the investment are not necessarily the same as the original investors.

CONCLUSION

The results of this study demonstrate that BCCC creates value from multiple perspectives. The College benefits regional businesses by increasing consumer spending in the region and supplying a steady flow of qualified, trained workers to the workforce. BCCC enriches the lives of students by raising their lifetime earnings and helping them achieve their individual potential. The College benefits state and local taxpayers through increased tax receipts and a reduced demand for government-supported social services. Finally, BCCC benefits society as a whole in Maryland by creating a more prosperous economy and generating a variety of savings through the improved lifestyles of students.

About the Study

Data and assumptions used in the study are based on several sources, including the FY 2019 academic and financial reports from BCCC, industry and employment data from the U.S. Bureau of Labor Statistics and U.S. Census Bureau, outputs of Emsi Burning Glass's Multi-Regional Social Accounting Matrix model, and a variety of studies and surveys relating education to social behavior. The study applies a conservative methodology and follows standard practice using only the most recognized indicators of economic impact and investment effectiveness. For a full description of the data and approach used in the study, please contact the College for a copy of the Main Report.

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