



**BRUNSWICK**  
COMMUNITY COLLEGE

**EXECUTIVE SUMMARY**

DECEMBER 2021



# The Economic Value of Brunswick Community College



**B**RUNSWICK COMMUNITY COLLEGE (BCC) 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 county, generating new dollars and opportunities for Brunswick County. BCC provides students with the education, training, and skills they need to have fulfilling and prosperous careers. Furthermore, BCC is a place for students to meet new people, increase their self-confidence, and promote their overall health and well-being.

BCC influences both the lives of its students and the county economy. The college supports a variety of industries in Brunswick County, serves county businesses, and benefits society as a whole in North Carolina from an expanded economy and improved quality of life. Additionally, the benefits created by BCC extend to the state and local government through increased tax revenues and public sector savings.

This study measures the economic impacts created by BCC 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 following two analyses are presented:



### Economic impact analysis



### Investment analysis

All results reflect employee, student, and financial data, provided by the college, for fiscal year (FY) 2019-20. Impacts on the Brunswick County 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 North Carolina are reported under the investment analysis.



BRUNSWICK COUNTY, NC

BCC influences both the **lives of its students** and the **county economy**.



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

## Operations spending impact



BCC adds economic value to Brunswick County as an employer of county residents and a large-scale buyer of goods and services. In FY 2019-20, the college employed 387 full-time and part-time faculty and staff, 71% of whom lived in Brunswick County. Total payroll at BCC was \$11.8 million, much of which was spent in the county for groceries, mortgage and rent payments, dining out, and other household expenses. In addition, the college spent \$9.5 million on day-to-day expenses related to facilities, supplies, and professional services.

BCC's day-to-day operations spending added \$14.5 million in income to the county during the analysis year. This figure represents the college's payroll, the multiplier effects generated by the in-county spending of the college and its employees, and a downward adjustment to account for funding that the college received from county sources. The \$14.5 million in added income is equivalent to supporting 427 jobs in the county.

## Construction spending impact



BCC 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 quick infusions of income and jobs have a substantial impact on the county economy. In FY 2019-20, BCC's construction spending generated \$1.8 million in added income, which is equivalent to supporting 35 jobs.

### IMPACTS CREATED BY BCC IN FY 2019-20



Operations spending impact

**\$14.5 million**



Construction spending impact

**\$1.8 million**



Student spending impact

**\$2.5 million**



Alumni impact

**\$42.9 million**



TOTAL ECONOMIC IMPACT

**\$61.7 million**

OR

Jobs supported

**1,285**

## Student spending impact



Around 20% of students attending BCC originated from outside the county in FY 2019-20, and some of these students relocated to Brunswick County to attend BCC. These students may not have come to the county if the college did not exist. In addition, some in-county students, referred to as retained students, would have left Brunswick County if not for the existence of BCC. While attending the college, these relocated and retained students spent money on groceries, accommodation, transportation, and other household expenses. This spending generated \$2.5 million in added income for the county economy in FY 2019-20, which supported 56 jobs in Brunswick County.

## Alumni impact



The education and training BCC provides for county residents has the greatest impact. Since its establishment, students have studied at BCC and entered the county workforce with greater knowledge and new skills. Today, thousands of former BCC students are employed in Brunswick County. As a result of their education from BCC, the students receive higher earnings and increase the productivity of the businesses that employ them. In FY 2019-20, BCC alumni generated \$42.9 million in added income for the county economy, which is equivalent to supporting 766 jobs.

## Total impact

BCC added \$61.7 million in income to the Brunswick County 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 \$61.7 million impact was equal to approximately 1.4% of the total gross regional product (GRP) of Brunswick County. This contribution that the college provided on its own is nearly as large as the entire Arts, Entertainment, & Recreation industry in the county.

BCC's total impact can also be expressed in terms of jobs supported. The \$61.7 million impact supported 1,285 county jobs, using the jobs-to-sales ratios specific to each industry in the county. This means that one out of every 42 jobs in Brunswick County is supported by the activities of BCC and its students. In addition, the \$61.7 million, or 1,285 supported jobs, stemmed from different industry sectors. Among non-education industry sectors, BCC's spending and alumni in the Retail Trade industry sector supported 138 jobs in FY 2019-20. If the college did not exist, these impacts would not have been generated in Brunswick County.

### BCC IMPACTS BY INDUSTRY (JOBS SUPPORTED)



**One out of every 42 jobs** in Brunswick County is supported by the activities of BCC and its students.



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 BCC as an investment from the perspectives of students, taxpayers, and society in North Carolina.

## Student perspective



In FY 2019-20, BCC served 2,081 credit and 3,668 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 BCC's students in FY 2019-20 amounted to a present value of \$11.9 million, equal to \$2.1 million in out-of-pocket expenses and \$9.8 million in forgone time and money.

In return for their investment, BCC's students will receive a stream of higher future earnings that will continue to grow throughout their working lives. For example, the average BCC associate degree graduate from FY 2019-20 will see annual earnings that are \$7,300 higher than a person with a high school diploma or equivalent working in North Carolina. Over a working lifetime, the benefits of the associate degree over a high school diploma will amount to an undiscounted value of \$299.3 thousand in higher earnings per graduate. The present value of the cumulative higher future earnings that BCC's FY 2019-20 students will receive over their working careers is \$74.7 million.

The students' benefit-cost ratio is 6.3. In other words, for every dollar students invest in BCC in the form of out-of-pocket expenses and forgone time and money, they will receive a cumulative value of \$6.30 in higher future earnings. Annually,

### STUDENTS SEE A HIGH RATE OF RETURN FOR THEIR INVESTMENT IN BCC



Average annual return for BCC students

**26.2%**



Stock market 30-year average annual return

10.6%

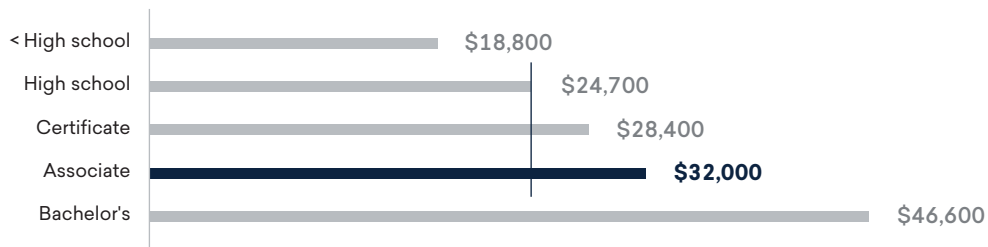


Interest earned on savings account (National Rate Cap)

0.8%

Source: Forbes' S&P 500, 1991-2020. FDIC.gov, 6-2021.

The average associate degree graduate from BCC will see an increase in earnings of **\$7,300** each year compared to a person with a high school diploma or equivalent working in North Carolina.



Source: Emsi Burning Glass employment data.

the students' investment in BCC has an average annual internal rate of return of 26.2%, which is impressive compared to the U.S. stock market's 30-year average rate of return of 10.6%.

## Taxpayer perspective



BCC generates more in tax revenue than it takes. 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 BCC 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 2019-20 students' working lives, the state and local government will have collected a present value of \$20.1 million in added taxes.

Benefits to taxpayers will also consist of savings generated by the improved lifestyles of BCC students and the corresponding reduced government services. Education is statistically correlated with a variety of lifestyle changes. The educations that BCC students receive will generate savings in three main categories: 1) healthcare, 2) justice system, and 3) income assistance. Improved health will lower students' demand for national health care services. In addition, costs related to the justice system will decrease. BCC 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 BCC education will generate \$1.4 million in savings to state and local taxpayers.

Total taxpayer benefits amount to \$21.5 million, the present value sum of the added taxes and public sector savings. Taxpayer costs are \$17.8 million, equal to the amount of state and local government funding BCC received in FY 2019-20. These benefits and costs yield a benefit-cost ratio of 1.2. This means that for every dollar of public money invested in BCC in FY 2019-20, taxpayers will receive a cumulative present value of \$1.20 over the course of the students' working lives. The average annual internal rate of return for taxpayers is 1.6%, which compares favorably to other long-term investments in the public and private sectors.

For every dollar of public money invested in BCC, taxpayers will receive a cumulative value of **\$1.20** over the course of the students' working lives.

## Social perspective



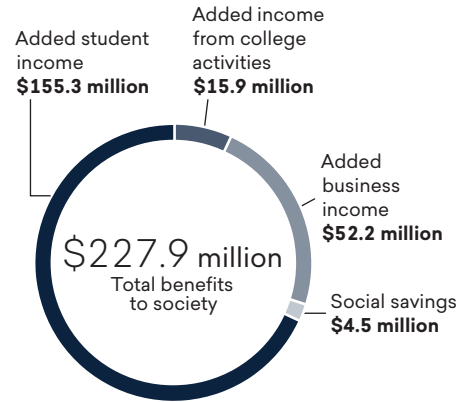
Society as a whole in North Carolina benefits from the presence of BCC in two major ways. Primarily, society benefits from an increased economic base in the state. This is attributed to the added income from students' increased lifetime earnings (added student income) and increased business output (added business income), which raise economic prosperity in North Carolina.

Benefits to society also consist of the savings generated by the improved lifestyles of BCC 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 avoided by the taxpayers outlined above. Healthcare savings include avoided medical costs associated with smoking, alcohol dependence, obesity, drug abuse, and depression. Justice system savings include avoided costs to the government and society due to less judicial activity. 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 BCC equal a present value of \$227.9 million. These benefits include \$155.3 million in added student income, \$52.2 million in added business income, \$15.9 million in added income from college activities, as well as \$4.5 million in social savings related to health, crime, and income assistance in North Carolina. People in North Carolina invested a present value total of \$36.2 million in BCC in FY 2019-20. The cost includes all the college and student costs.

The benefit-cost ratio for society is 6.3, equal to the \$227.9 million in benefits divided by the \$36.2 million in costs. In other words, for every dollar invested in BCC, people in North Carolina will receive a cumulative value of \$6.30 in benefits. The benefits of this investment will occur for as long as BCC's FY 2019-20 students remain employed in the state workforce.

SOCIAL BENEFITS IN NORTH CAROLINA FROM BCC



Source: Emsi Burning Glass impact model.

## Summary of investment analysis results

The results of the analysis demonstrate that BCC is a strong investment for all three major stakeholder groups—students, taxpayers, and society. As shown, students receive a great return for their investments in a BCC education. At the same time, taxpayers' investment in BCC returns more to government budgets than it costs and creates a wide range of social benefits throughout North Carolina.

STUDENT PERSPECTIVE		TAXPAYER PERSPECTIVE		SOCIAL PERSPECTIVE	
Present value benefits		Present value benefits		Present value benefits	
<b>\$74.7 million</b>		<b>\$21.5 million</b>		<b>\$227.9 million</b>	
Present value costs		Present value costs		Present value costs	
<b>\$11.9 million</b>		<b>\$17.8 million</b>		<b>\$36.2 million</b>	
Net present value		Net present value		Net present value	
<b>\$62.8 million</b>		<b>\$3.7 million</b>		<b>\$191.8 million</b>	
Benefit-cost ratio	Rate of return	Benefit-cost ratio	Rate of return	Benefit-cost ratio	Rate of return
<b>6.3</b>	<b>26.2%</b>	<b>1.2</b>	<b>1.6%</b>	<b>6.3</b>	<b>n/a*</b>

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

# CONCLUSION

The results of this study demonstrate that BCC creates value from multiple perspectives. The college benefits county businesses by increasing consumer spending in the county and supplying a steady flow of qualified, trained workers to the workforce. BCC 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, BCC benefits society as a whole in North Carolina 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 2019-20 academic and financial reports from BCC, 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.

The results of this study demonstrate that BCC creates value from **multiple perspectives**.



Emsi Burning Glass provides colleges and universities with labor market data that helps create better outcomes for students, businesses, and communities. Our data, which cover more than 99% of the U.S. workforce, are compiled from a wide variety of government sources, job postings, and online profiles and résumés. Hundreds of institutions use Emsi Burning Glass to align programs with regional needs, drive enrollment, connect students with in-demand careers, track their alumni's employment outcomes, and demonstrate their institution's economic impact on their region. Visit [economicmodeling.com/higher-education](http://economicmodeling.com/higher-education) to learn more or connect with us.