

EXECUTIVE SUMMARY

DECEMBER 2021



The Economic Value of Cape Fear Community College



APE FEAR COMMUNITY COLLEGE (CFCC) 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 CFCC Service Area. CFCC provides students with the education, training, and skills they need to have fulfilling and prosperous careers. Furthermore, CFCC is a place for students to meet new people, increase their self-confidence, and promote their overall health and well-being.



THE CFCC SERVICE AREA, NC

CFCC influences both the lives of its students and the regional economy. The public sector savings.

college supports a variety of industries in the CFCC Service Area, serves regional businesses, and benefits society as a whole in North Carolina from an expanded economy and improved quality of life. Additionally, the benefits created by CFCC extend to the state and local government through increased tax revenues and

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

This study measures the economic impacts created by CFCC 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 CFCC 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 North Carolina are reported under the investment analysis.

ECONOMIC IMPACT ANALYSIS



CFCC promotes economic growth in the CFCC 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. The college's activities attract students from outside the CFCC Service Area, whose expenditures benefit regional vendors. In addition, CFCC is a primary source of higher education to the CFCC Service Area residents and a supplier of trained workers to regional industries, enhancing overall productivity in the regional workforce.

Operations spending impact



CFCC adds economic value to the CFCC Service Area as an employer of regional residents and a large-scale buyer of goods and services. In FY 2019-20, the college employed 1,530 full-time and part-time faculty

and staff, 80% of whom lived in the CFCC Service Area. Total payroll at CFCC was \$47 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 \$37 million on day-to-day expenses related to facilities, supplies, and professional services.

CFCC's day-to-day operations spending added \$70.1 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 \$70.1 million in added income is equivalent to supporting 1,786 jobs in the region.

Student spending impact



Around 26% of credit students attending CFCC originated from outside the region in FY 2019-20, and some of these students relocated to the CFCC Service Area to attend CFCC. 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 CFCC Service Area if not for the existence of CFCC. While attending the college, these relocated and retained students spent money on groceries, accommodation, transportation, and other household expenses. This spending generated \$33.7 million in added income for the regional economy in FY 2019-20, which supported 741 jobs in the CFCC Service Area.

IMPACTS CREATED BY CFCC IN FY 2019-20



Operations spending impact

\$70.1 million





Student spending impact

\$33.7 million





Alumni impact \$218.3 million



TOTAL ECONOMIC IMPACT

\$322.1 million

OR

Jobs supported

6,057

Alumni impact



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

and new skills. Today, thousands of former CFCC students are employed in the CFCC Service Area. As a result of their education from CFCC, the students receive higher earnings and increase the productivity of the businesses that employ them. In FY 2019-20, CFCC alumni generated \$218.3 million in added income for the regional economy, which is equivalent to supporting 3,530 jobs.

Total impact

CFCC added \$322.1 million in income to the CFCC Service Area economy during the analysis year, equal to the sum of the operations spending impact, the student spending impact, and the alumni impact. For context, the \$322.1 million impact was equal to approximately 2.1% of the total gross regional product (GRP) of the CFCC Service Area. This contribution that the college provided on its own was greater than the entire Transportation & Warehousing industry in the region.

CFCC's total impact can also be expressed in terms of jobs supported. The \$322.1 million impact supported 6,057 regional jobs, using the jobs-to-sales ratios specific to each industry in the region. This means that one out of every 31 jobs in the CFCC Service Area is supported by the activities of CFCC and its students. In addition, the \$322.1 million, or 6,057 supported jobs, stemmed from different industry sectors. Among non-education industry sectors, CFCC's spending and alumni in the Retail Trade industry sector supported 905 jobs in FY 2019-20. If the college did not exist, these impacts would not have been generated in the CFCC Service Area.

CFCC IMPACTS BY INDUSTRY (JOBS SUPPORTED)



905

Retail Trade



542

Accommodation & Food Services



480

Other services



455

Real Estate & Rental & Leasing



317

Health Care & Social Assistance

One out of every 31 jobs

in the CFCC Service Area is supported by the activities of CFCC and its students.

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

Student perspective

In FY 2019-20, CFCC served 11,380 credit and 11,184 non-credit students. In order to attend the college, the students paid for tuition, fees, books, and supplies. They also took out loans and will incur interest on those loans. Additionally, students gave up money they would have otherwise earned had they been working instead of attending college. The total investment made by CFCC's students in FY 2019-20 amounted to a present value of \$58.1 million, equal to \$17.9 million in out-of-pocket expenses (including future principal and interest on student loans) and \$40.2 million in forgone time and money.

In return for their investment, CFCC's students will receive a stream of higher future earnings that will continue to grow throughout their working lives. For example, the average CFCC associate degree graduate from FY 2019-20 will see annual earnings that are \$8,300 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 \$365.2 thousand in higher earnings per graduate. The present value of the cumulative higher future earnings that CFCC's FY 2019-20 students will receive over their working careers is \$382.9 million.

The students' benefit-cost ratio is 6.6. In other words, for every dollar students invest in CFCC in the form of out-of-pocket expenses and forgone time and

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



Average annual return for CFCC students

25.3%



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 CFCC will see an increase in earnings of \$8,300 each year compared to a person with a high school diploma or equivalent working in North Carolina.



Source: Emsi Burning Glass employment data.



money, they will receive a cumulative value of \$6.60 in higher future earnings. Annually, the students' investment in CFCC has an average annual internal rate of return of 25.3%, which is impressive compared to the U.S. stock market's 30-year average rate of return of 10.6%.

Taxpayer perspective



CFCC 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

CFCC 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 \$110.7 million in added taxes.

Benefits to taxpayers will also consist of savings generated by the improved lifestyles of CFCC students and the corresponding

reduced government services. Education is statistically correlated with a variety of lifestyle changes. The educations that CFCC 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. CFCC 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 CFCC education will generate \$6.8 million in savings to state and local taxpayers.

Total taxpayer benefits amount to \$117.5 million, the present value sum of the added taxes and public sector savings. Taxpayer costs are \$50.6 million, equal to the amount of state and local government funding CFCC received in FY 2019-20. These benefits and costs yield a benefit-cost ratio of 2.3. This means that for every dollar of public money invested in CFCC in FY 2019-20, taxpayers will receive a cumulative present value of \$2.30 over the course of the students' working lives. The average annual internal rate of return for taxpayers is 6.1%, which compares favorably to other long-term investments in the public and private sectors.

Social perspective



Society as a whole in North Carolina benefits from the presence of CFCC 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.

For every dollar of public money invested in CFCC, taxpayers will receive a cumulative value of \$2.30 over the course of the students' working lives.

Benefits to society also consist of the savings generated by the improved lifestyles of CFCC 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.

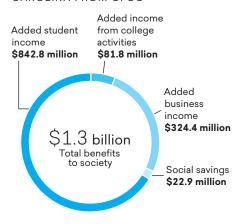
Altogether, the social benefits of CFCC equal a present value of \$1.3 billion. These benefits include \$842.8 million in added student income, \$324.4 million in added business income, \$81.8 million in added income from college activities, as well as \$22.9 million in social savings related to health, crime, and income assistance in North Carolina. People in North Carolina invested a present value total of \$133.9 million in CFCC in FY 2019-20. The cost includes all the college and student costs.

The benefit-cost ratio for society is 9.5, equal to the \$1.3 billion in benefits divided by the \$133.9 million in costs. In other words, for every dollar invested in CFCC, people in North Carolina will receive a cumulative value of \$9.50 in benefits. The benefits of this investment will occur for as long as CFCC's FY 2019-20 students remain employed in the state workforce.

Summary of investment analysis results

The results of the analysis demonstrate that CFCC 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 CFCC education. At the same time, taxpayers' investment in CFCC returns more to government budgets than it costs and creates a wide range of social benefits throughout North Carolina.

SOCIAL BENEFITS IN NORTH CAROLINA FROM CFCC



Source: Emsi Burning Glass impact model.

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STUDENT PERSPECTIVE		TAXPAYER PERSPECTIVE		SOCIAL PERSPECTIVE	
Present value benefits \$382.9 million		Present value benefits \$117.5 million		Present value benefits \$1.3 billion	
Present value costs \$58.1 million		Present value costs \$50.6 million		Present value costs \$133.9 million	
Net present value \$324.8 million		Net present value \$66.9 million		Net present value \$1.1 billion	
Benefit-cost ratio 6.6	Rate of return 25.3%	Benefit-cost ratio 2.3	Rate of return 6.1%	Benefit-cost ratio 9.5	Rate of return

^{*} 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 CFCC 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. CFCC 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, CFCC 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 CFCC, 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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