Executive Summary

The Economic Contribution of

Central Piedmont Community College
State of North Carolina

Economic Growth Analysis
Investment Analysis
INVESTMENT ANALYSIS

• For every dollar students invest in CPCC, they receive a cumulative $3.10 in higher future income (discounted) over the course of their working careers.

• North Carolina benefits from improved health and reduced welfare, unemployment, and crime, saving the public some $6.7 million per year.

• Taxpayers see a rate of return of 8.0% on their investment in CPCC.

ECONOMIC GROWTH ANALYSIS

• The net added income generated by CPCC operations ($78.1 million) and the spending of non-local students ($13.3 million) contributes a total of $91.4 million in income to the Mecklenburg County economy each year.

• The accumulated credits achieved by former CPCC students over the past 30 years translate to $826.7 million in added regional income each year due to the higher earnings of students and increased output of businesses.
Executive Summary

INTRODUCTION

How do the Mecklenburg County economy and the state of North Carolina benefit from the presence of Central Piedmont Community College (CPCC)?

In this study, EMSI applies a comprehensive model designed to quantify the economic benefits of community and technical colleges and translate these into common sense benefit/cost and investment terms. The study includes two major analyses:

1. Investment Analysis: Treats education funding as an investment, calculating all measurable returns and comparing them to costs, from the perspectives of students, taxpayers, and society as a whole.

2. Economic Growth Analysis: Measures added income in the region due to college operations, student spending, and the accumulated skills of past and present students still in the workforce.

The economic impact model has been field-tested to generate more than 900 studies for community, technical, and further education colleges in the US, Canada, the UK, and Australia. To see the full documentation of the study, please contact the college.

THE RESULTS

Investment Analysis

Student Perspective

Benefits of higher education are most obvious from the student perspective: students sacrifice current earnings (as well as money to pay for tuition) in return for a lifetime of higher income. Compared to someone with a high school diploma, associate’s degree graduates earn $14,600 more per year, on average, over the course of a working lifetime (undiscounted).

From an investment standpoint, CPCC students enjoy a 13.0% rate of return on their investments of time and money. This compares favorably with returns on other investments, e.g., long-term return on stocks and bonds.

The corresponding benefit/cost ratio is 3.1, i.e., for every dollar students invest in CPCC education, they receive a cumulative of $3.10 in higher future income over their working careers. This is a real return that accounts for any discounting that occurs during the entire period. The payback period is 10.3 years.
The Economic Contribution of Central Piedmont Community College

EXECUTIVE SUMMARY

From the perspective of society as a whole, the benefits of education accrue to different publics. For example, CPCC students expand the state’s economic base through their higher incomes, while the businesses that employ them also become more productive through the students’ added skills. These benefits, together with the associated ripple effects, contribute an estimated $157.9 million in taxable income to the North Carolina economy each year.

As they achieve higher levels of education, CPCC students are also less likely to smoke or abuse alcohol, draw welfare or unemployment benefits, or commit crimes. This translates into associated dollar savings (i.e., avoided costs) to the public equal to approximately $6.7 million annually. These are benefits that are incidental to the operations of CPCC and accrue for years into the future, for as long as students remain active in the workforce.

To compare benefits to costs, we project benefits into the future, discount them back to the present, and weigh them against the $98.6 million that state and local taxpayers spent in FY 2009-10 to support the college. Following this procedure, it is estimated that CPCC provides a benefit/cost ratio of 25.1, i.e. every dollar of state and local tax money invested in the college today yields a cumulative of $25.10 in benefits that accrue to all North Carolina residents, in terms of added taxable income and avoided social costs.

Taxpayer Perspective

Under the taxpayer perspective, only benefits that accrue to state and local governments are counted, namely, increased tax collections and reduced government expenditures. For example, in place of increased income, the taxpayer perspective includes only the increased state and local tax receipts from those higher incomes. Similarly, in place of overall crime, welfare, unemployment and health savings, the taxpayer perspective includes only those that translate to actual reductions in state and local government expenditures.

Note here that government often undertakes activities wanted by the public, but which may be unprofitable in the marketplace. This means that positive economic returns are generally not expected from government investments. From the taxpayer perspective, therefore, even a small positive return (a benefit/cost ratio equal to or greater than 1, or a rate of return equal to or greater than the 3% discount rate used in the taxpayer investment analysis) would be a favorable outcome.

For CPCC, the results indicate positive returns: a rate of return of 8.0% and a benefit/cost ratio of 2.0 (every dollar of state or local tax money invested in CPCC today returns $2.00).

Annual Benefits to North Carolina Public Due To CPCC Students ($ Millions)

- Added income, $157.9
- Social savings, $6.7

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Economic Growth Analysis
CPCC affects the local economy in three ways: (1) through its local purchases, including wages paid to faculty and staff; (2) through the spending of students who come from outside the region; and (3) through the increase in the skill base of the local workforce. These effects break down as follows:

College Operations Effect
CPCC creates income through the earnings of its faculty and staff, as well as through its own operating and capital expenditures. Adjusting for taxes and other monies withdrawn from the local economy in support of CPCC, it is estimated that the Mecklenburg County economy receives a net of $78.1 million in added labor and non-labor income due to CPCC operations each year.

Student Spending Effect
Students from outside the region spend money for room and board, transportation, entertainment, and other miscellaneous personal expenses. These expenditures create jobs and incomes for local businesses. The spending of CPCC’s non-local students generates approximately $13.3 million in added income in the Mecklenburg County economy each year.

Student Productivity Effect
Every year students leave CPCC and join or rejoin the regional workforce. Their added skills translate to higher income and a more robust Mecklenburg County economy. Based on CPCC’s historical enrollment and credit production over the past 30-year period, it is estimated that the accumulated contribution of CPCC instruction received by former students (both completers and non-completers) annually adds some $826.7 million in income to Mecklenburg County.

Total Effect
Altogether, the average annual added income due to the activities of CPCC and its former students equals $918.1 million. This is approximately equal to 1.4% of the total Mecklenburg County economy.

CPCC ECONOMIC IMPACT ANALYSIS AT A GLANCE

<table>
<thead>
<tr>
<th>Added Income</th>
<th>Total Added Income in Mecklenburg County Due to CPCC ($ Millions)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>College operations effect</strong></td>
<td>$78,071,000</td>
</tr>
<tr>
<td><strong>Student spending effect</strong></td>
<td>$13,287,000</td>
</tr>
<tr>
<td><strong>Total spending effect</strong></td>
<td>$91,358,000</td>
</tr>
<tr>
<td><strong>Student productivity effect</strong></td>
<td>$826,727,000</td>
</tr>
<tr>
<td><strong>GRAND TOTAL</strong></td>
<td><strong>$918,085,000</strong></td>
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</tbody>
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CONCLUSION
The results of this study demonstrate that CPCC is a sound investment from multiple perspectives. The college enriches the lives of students and increases their lifetime incomes. It benefits taxpayers by generating increased tax revenues from an enlarged economy and reducing the demand for taxpayer-supported social services. Finally, it contributes to the vitality of both the local and state economies.
ABOUT THE STUDY

This report summarizes the results from “The Economic Contributions of Central Piedmont Community College” detailing the role that the college plays in promoting economic development, enhancing students’ careers, and improving quality of life. Data sources include, but are not limited to, 2009-10 academic and financial reports from the college, industry and employment data from the U.S. Bureau of Labor Statistics, earnings and demographic data from the U.S. Census Bureau, and a variety of studies and surveys relating education to social behavior.

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