



Combined

Economic Impact Study

BARTON
COMMUNITY COLLEGE



Forward

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- A study of Barton Community College's direct economic impact on Barton County conducted by the Docking Institute of Public Affairs.
- A study of all Kansas community colleges' economic impact on the entire state conducted by Lightcast.



Forward

The accompanying report contains two separate sections. An infographic serves as the introductory page for each section.

1. A study of Barton Community College's direct economic impact on Barton County conducted by the Docking Institute of Public Affairs.
2. A study of all Kansas community college's economic impact on the entire state conducted by Lightcast.

Section 1: Docking Study

The first half provides a detailed analysis of the economic contributions of Barton Community College to Barton County, Kansas. Conducted by the Docking Institute of Public Affairs at Fort Hays State University and the Institutional Effectiveness Department of Barton Community College, the study examines the economic impact of the college's operations, payroll, spending, and other activities during fiscal year 2022 on Barton County. Utilizing the IMPLAN input-output modeling system and the college's data, the analysis quantifies Barton's sizable impact on the Barton County economy.

Docking Conclusion:

The Docking report highlights Barton's value to the local community, from its purchasing power to support local businesses to equipping students with skills that increase their lifelong earnings potential. As a major employer and provider of accessible educational opportunities, Barton Community College is a true partner for economic and community development in Barton County. Beyond the numbers, Barton Community College is an indispensable resource for affordable higher education, workforce training, and other community partnerships.

Section 2: Lightcast Study

The second half of the report was commissioned by the Kansas Association of Community Colleges. Data and assumptions used in the study are based on several sources, including the FY 2021-22 academic and financial reports from Kansas community colleges and the Kansas Board of Regents, industry and employment data from the U.S. Bureau of Labor Statistics and U.S. Census Bureau, outputs of Lightcast's Multi-Regional Social Accounting Matrix model, and a variety of studies and surveys relating education to social behavior.

Lightcast Conclusion:

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



Docking Infographic

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- Shared previously with Trustees
- Highlights
 - Total Impact
 - Partnerships
 - Return on Investment
 - Other Revenue Sources



The Economic Impact of Barton Community College on Barton County, Kansas Economy

About Barton Community College



County Economic Impact

Barton County Operations Spending



Barton County Payroll and Benefits



Community Partnership Value



Partnership donations and shared or exchanged services, facilities, or equipment.



Return on Investment

For every dollar (\$1) of revenue from Barton County taxes, two dollars and sixty-one cents (\$2.61) of additional revenue comes from various other sources.

The Return on Investment (ROI) from the Barton County taxes when considering Barton Community College as a whole is 261% or 27.7% of total revenue.



Supporting Tables

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- The Return on Investment from the Barton County Taxes when considering Barton Community College as a whole (all revenue resources) is 261 percent.
- For FY 2022 the total economic impact of Barton Community College on Barton County, Kansas was \$30,012,000.



Barton County-Only Study by Docking Institute

The Docking study aims to estimate the magnitude of the economic impact of Barton Community College on the local economy (Barton County, including the City of Great Bend) for the most recent fiscal year, 2022.

Immediate ROI (3-year Average) FY 19, 20, 21

An ROI analysis based only on local property taxes considers only the investment (revenue from local taxes) and the expenditures directly related to that investment. When all expenditures are considered, for every dollar (\$1.00) of Revenue derived from the County Tax two dollars and five cents (\$2.05) is spent in Barton County.

The Return on Investment (ROI) from the Barton County Taxes when considering Barton Community College as a whole (all revenue resources) is 261 percent. (see table below)

	Total Revenues	Percentage of Property Tax
County Property Tax	\$10,064,659	100%
General Fund	\$28,777,480	286%
Technical Education Fund	\$3,696,125	37%
Adult Basic Education Fund	\$177,511	2%
Auxiliary Enterprise Funds	\$3,625,718	36%
Total Less Property Tax	\$26,212,175	261%

Source: Schedules 1-1, 1-2, 1-3, and 1-5 Barton Community College – Audited Financial Statements with additional calculations by the author.
*original table layout refined for improved comprehension and user-friendliness.

Details of the Economic Impact of Barton Community College on Barton County

The IMPLAN model shows that for FY 2022 the total economic impact of Barton Community College on Barton County, Kansas was \$30,012,000. (see table below)

Impact Type	Employment	Labor Income	Output
Direct	323	\$14,891,000	\$20,654,000
Induced	57	\$2,230,000	\$9,358,000
Total	380	\$17,121,000	\$30,012,000

Source: Implan*

Other Barton Benefits

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- 3-year average salaries: \$13.4 million
- Total jobs in Barton County: 323
- Partnerships: \$8.9 million
- Additional Benefits:
 - improved workforce education
 - increased personal income
 - shared skills and information
 - civic leadership
 - cultural and sporting events



Barton County-Only Study by Docking Institute

- The overall tax effects related to the operation of Barton Community College at the local, state, and federal levels. BCC helped generate \$247,740 in local taxes. Total taxes generated at all three levels were \$4.7 million.
- There were 380 FTE jobs in the local economy because of Barton Community College.
- These 380 FTE jobs generated \$17,121,000 in county labor income.
- Direct Salary and Benefits to Barton County Residents was \$13,493,772. (see table below)

Table A16: BCC Employees Barton County, Three Year Average

Category	Dollars/Number	Percentage
Salaries & Benefits to Barton County Residents	\$13,493,772	64.9%
Number of full-time employees living in Barton County	216	66.9%
Number of part-time employees living in Barton County	107	33.1%
Total number of employees living in Barton County	323	

Source: BCC Institutional Research with additional calculations by the author.

Partnerships

- Barton Community College's partnerships number more than 700, with each contributing differently to the institution's objectives. Some partners make one-time cash or merchandise donations, totaling approximately \$350,000 yearly.
- The fundraising hub for the college is the Barton Community College Foundation, an independent nonprofit organization that raises funds from private sources to support projects and programs that go beyond the college's operational budget. Last year, the foundation provided \$605,327, primarily allocated through grants and scholarships.
- There are partnerships involving contracted, shared, or exchanged services, facilities, and equipment valued over \$8,000,000. Notably, these collaborations provide exchanges of equipment, classroom space, internships, and training at medical centers, pharmacies, manufacturers, and military installations with local and national partners such as CNH Industrial, Walgreens, Ellsworth and Larned Correctional Facilities, and hundreds of hospitals, medical clinics, fire departments, and EMS services state and nation-wide.

Additional Benefits

- In addition to the immediate economic impact of Barton Community College, there are longer-term economic impacts and non-monetized benefits for the local and regional community. Quantifying these long-term, multifaceted benefits is beyond the scope of this study. These benefits include:
 - a better educated and more productive workforce;
 - increased personal income;
 - transfer of know-how and technology to businesses, non-profit organizations, and governmental units;
 - civic leadership and service provided by students and employees;
 - sports events, cultural activities, and educational programs that improve the quality of life for the citizens of the surrounding area.

Statewide Infographic

(for all community colleges)

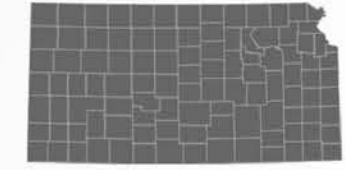
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- 1 in 18 (106,234) jobs supported by activities of Kansas community colleges and their students.
- \$381.5 million operations spending
- \$113.6 million student spending

The Economic Value of Kansas Community Colleges

About Kansas Community Colleges

92,000 Credit students 25,000 Non-credit students 8,690 Employees



Kansas

Economic impact analysis

1 out of every 18 jobs in Kansas is supported by the activities of Kansas community colleges and their students.

Alumni impact
Impact of the increased earnings of Kansas community colleges' alumni and the businesses they work for

\$6.2 billion Added income

95,898 Jobs supported

An economic boost similar to hosting the World Series **956x**

Operations spending impact
Impact of annual payroll and other spending

\$381.5 million Added income

Enough to buy 8,105 new cars

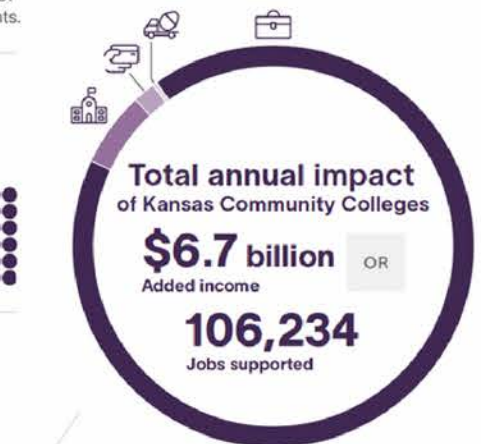
8,081 Jobs supported

Student spending impact
Impact of the daily spending of the community colleges' students attracted to or retained in the state

\$113.6 million Added income

Enough to buy 9,178 families' a year's worth of groceries

2,043 Jobs supported



Capital spending impact
Impact of expenditures for ongoing capital projects

\$12.9 million Added income

213 Jobs supported

● = 1,000 jobs
* = family of four

Investment analysis

For every \$1...
Students gain **\$9.40** in lifetime earnings

Taxpayers gain **\$2.20** in added tax revenue and public sector savings

Society gains **\$9.20** in added income and social savings

The average associate degree graduate from a Kansas community college will see an increase in earnings of **\$17,500** each year compared to someone with a high school diploma working in Kansas.



Source: Lightcast Economic Impact Study, <https://www.kccpa.com/news/2019/10/15/habit-could-face-parkies-or-astro-in-work-series.html>
https://www.courier.com/news/3748592-how-car-average-sale-price-47001-https://this-prod.azureedge.net/sites/default/files/media/16/CourierFoodAug2023_04ModLb.pdf

Statewide Value Added

(for all community colleges)

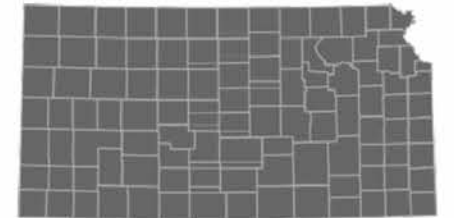
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- Kansas community colleges provide students with the education, training, and skills to increase their employability and have fulfilling and prosperous careers.
- ✦ Draw students to Kansas, generating new dollars and opportunities.

KANSAS COMMUNITY COLLEGES create value in many ways. The community colleges play a key role in helping students meet the needs of the Kansas workforce and Kansas businesses. The colleges also draw students to the state, generating new dollars and opportunities for the state of Kansas. Furthermore, the colleges provide students with the education, training, and skills they need to increase their employability and have fulfilling and prosperous careers.

Kansas community colleges play a key role in helping students meet the needs of the Kansas workforce and Kansas businesses.

Kansas community colleges influence both the lives of students and the state economy. The colleges support a variety of industries in Kansas, serve businesses across the state, and benefit society as a whole in Kansas from an expanded economy and improved quality of life. Additionally, the benefits created by Kansas community colleges extend to the state and local government through increased tax revenues and public sector savings.



The following two analyses are presented in this study:

 **Economic impact analysis**

 **Investment analysis**

Impacts on the Kansas 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 Kansas are reported under the investment analysis. All results reflect employee, student, and financial data, provided by the colleges and reviewed by the Kansas Association of Community Colleges (KACC), for fiscal year (FY) 2021-22.



Economic Impact Analysis

(for all community colleges)

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- Kansas community colleges' day-to-day operations spending added \$381.5 million in income to the state during the analysis year.
- This impact captures the new economic activity created in the state economy solely attributable to the operations of the colleges.

Economic impact analysis



Important note

When reviewing the impacts estimated in this study, it is important to note that the study reports impacts in the form of added income rather than sales.



Kansas community colleges promote economic growth in Kansas through their training of the Kansas workforce, as well as their direct expenditures and the resulting expenditures of students and state businesses. The colleges serve as employers and buyers of goods and services for their day-to-day and capital improvement expenditures. The colleges' activities also attract students from outside Kansas, whose expenditures benefit local businesses across the state. In addition, the colleges are primary sources of higher education to Kansas residents and supply a trained workforce to Kansas businesses, enhancing the overall productivity of the Kansas workforce. When exploring each of the economic impacts, we consider the hypothetical question of how economic activity would change in Kansas if the community colleges and all of their alumni did not exist in FY 2021-22.



Kansas community colleges' day-to-day operations spending added \$381.5 million in income to the state during the analysis year. This impact captures the new economic activity created in the state economy solely attributable to the operations of the colleges. More specifically, this figure represents the colleges' payroll and the multiplier effects generated by the in-region spending of the colleges and their employees. It also reflects a downward adjustment to account for funding the colleges received from state and county sources to arrive at the added income in the state solely attributable to Kansas community colleges. This amounts to the net value of \$381.5 million in added income, which is equivalent to supporting 8,081 jobs in Kansas.

Total Impact

(for all community colleges)

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- Kansas community colleges' capital spending generated \$12.9 million in added income to Kansas, which is equivalent to supporting 213 jobs.
- Kansas community colleges added \$6.7 billion in income to the state economy during the analysis year, equal to approximately 3.3% of the total Kansas gross state product.

Capital spending impact



Kansas community colleges invest in capital expenditures each year to maintain and repair facilities and create additional capacities. While the amount varies from year to year, these quick infusions of income and jobs have a substantial impact on the Kansas economy. In FY 2021-22, Kansas community colleges' capital spending generated \$12.9 million in added income to Kansas, which is equivalent to supporting 213 jobs.

Total impact

Kansas community colleges added \$6.7 billion in income to the state economy during the analysis year, equal to the sum of operations and capital spending impacts; the student spending impact; and the alumni impact. For context, the \$6.7 billion impact was equal to approximately 3.3% of the total gross state product (GSP) of Kansas. This contribution that the community colleges provided on their own is larger than the entire Information industry in the state.

Kansas community colleges' total impact can also be expressed in terms of jobs supported. The \$6.7 billion impact supported 106,234 state jobs, using the jobs-to-sales ratios specific to each industry in the state. This means that one out of every 18 jobs in Kansas is supported by the activities of the community colleges and their students. In addition, the \$6.7 billion, or 106,234 supported jobs, stemmed from different industry sectors. For instance, among non-education industry sectors, the spending of Kansas community colleges and their students and the activities of their alumni in the Health Care & Social Assistance industry sector supported 28,028 jobs in FY 2021-22. If the community colleges did not exist, these impacts would not have been generated in Kansas.

Kansas community colleges' impact by industry (Jobs supported)



One out of every 18 jobs in Kansas is supported by the activities of the community colleges and their students.



Taxpayer & Social Benefits

(for all community colleges)

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- Total taxpayer benefits amount to \$1 billion, the present value sum of the added tax revenue and public sector savings.
- Social benefits include an increased economic base created by skilled, educated, higher-earning students.

Taxpayer perspective



Kansas community colleges generate more in tax revenue than they receive. 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 Kansas community colleges' students earn more, they will make higher tax payments, such as property 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 2021-22 students' working lives, the state and local government will have collected a present value of \$990.6 million in added taxes.

Kansas community colleges generate more in tax revenue than they receive. For every dollar of public money invested in Kansas community colleges, taxpayers will receive a cumulative value of \$2.20 over the course of the students' working lives.

Total taxpayer benefits amount to \$1 billion, the present value sum of the added tax revenue and public sector savings. Taxpayer costs are \$473.7 million, equal to the amount of state and local government funding Kansas community colleges received in FY 2021-22. These benefits and costs yield a benefit-cost ratio of 2.2. This means that for every dollar of public money invested in Kansas community colleges in FY 2021-22, taxpayers will receive a cumulative present value of \$2.20 over the course of the students' working lives. The average annual internal rate of return for taxpayers is 4.9%, which compares favorably to other long-term investments in the public sector.



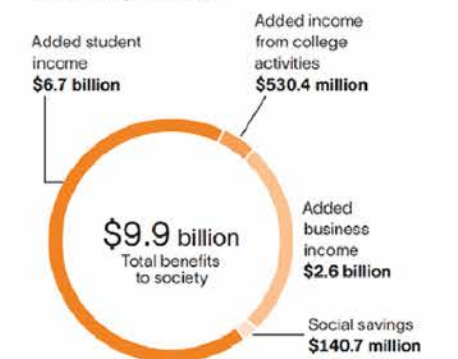
Social perspective



Society as a whole in Kansas benefits from the presence of Kansas community colleges 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 Kansas.

Benefits to society also consist of the savings generated by the improved lifestyles of Kansas community colleges' students. 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.

Social benefits in Kansas from Kansas community colleges



Source: Lightcast impact model.

Thank You!

Questions or Comments?

