



# The Economic Value of Blue Mountain Community College



**B** LUE MOUNTAIN COMMUNITY COLLEGE (BMCC) 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 BMCC Service District.\* BMCC provides students with the education, training, and skills they need to have fulfilling and prosperous careers. Furthermore, BMCC is a place for students to meet new people, increase their self-confidence, and promote their overall health and well-being.

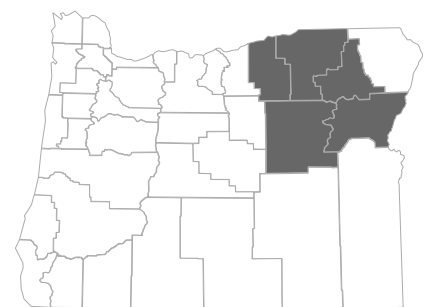
BMCC influences both the lives of its students and the regional economy. The college supports a variety of industries in the BMCC Service District, serves regional businesses, and benefits society as a whole in Oregon from an expanded economy and improved quality of life. Additionally, the benefits created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

This study measures the economic impacts created by BMCC 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) 2021-22. Impacts on the BMCC Service District 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 Oregon are reported under the investment analysis.



The BMCC Service District, Oregon

BMCC influences both the **lives of its students** and the **regional economy**.

\* For the purposes of this analysis, the BMCC Service District is comprised of Baker, Grant, Morrow, Umatilla, and Union Counties.

# Economic impact analysis



BMCC promotes economic growth in the BMCC Service District 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 BMCC Service District, whose expenditures benefit regional vendors. In addition, BMCC is a primary source of higher education to the BMCC Service District residents and a supplier of trained workers to regional industries, enhancing overall productivity in the regional workforce.

## Operations spending impact



BMCC adds economic value to the BMCC Service District as an employer of regional residents and a large-scale buyer of goods and services. In FY 2021-22, the college employed 239 full-time and part-time faculty and staff, 95% of whom lived in the BMCC Service District. Total payroll at BMCC was \$15.6 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 \$11 million on day-to-day expenses related to facilities, supplies, and professional services.

BMCC's day-to-day operations spending added \$17.7 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 \$17.7 million in added income is equivalent to supporting 258 jobs in the region.

## Student spending impact



Some in-region students, referred to as retained students, would have left the BMCC Service District if not for the existence of BMCC. In addition, around 7% of students attending BMCC originated from outside the region in FY 2021-22, and some of these students relocated to the BMCC Service District to attend the college. These students may not have come to the region if BMCC did not exist. In addition, while attending the college, these relocated and retained students spent money on groceries, accommodation, transportation, and other household expenses. This spending generated \$1.9 million in added income for the regional economy in FY 2021-22, which supported 34 jobs in the BMCC Service District.

### Impacts created by BMCC in FY 2021-22



Operations spending impact

**\$17.7 million**

+



Student spending impact

**\$1.9 million**

+



Alumni impact

**\$137.9 million**



Total economic impact

**\$157.5 million**

OR

Jobs supported

**2,305**



## Alumni impact



The education and training BMCC provides for regional residents has the greatest impact. Since the establishment of the college, students have studied at BMCC and entered the regional workforce with greater knowledge and new skills. Today, thousands of former BMCC students are employed in the BMCC Service District. As a result of their education from BMCC, the students receive higher earnings and increase the productivity of the businesses that employ them. In FY 2021-22, BMCC alumni generated \$137.9 million in added income for the regional economy, which is equivalent to supporting 2,013 jobs.

## Total impact

BMCC added \$157.5 million in income to the BMCC Service District 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 \$157.5 million impact was equal to approximately 2.2% of the total gross regional product (GRP) of the BMCC Service District. This contribution that the college provided on its own is larger than the entire Real Estate & Rental & Leasing industry in the region.

BMCC's total impact can also be expressed in terms of jobs supported. The \$157.5 million impact supported 2,305 regional jobs, using the jobs-to-sales ratios specific to each industry in the region. This means that one out of every 34 jobs in the BMCC Service District is supported by the activities of BMCC and its students. In addition, the \$157.5 million, or 2,305 supported jobs, stemmed from different industry sectors. For instance, among non-education industry sectors, the spending of BMCC and its students and the activities of its alumni in the Health Care & Social Assistance industry sector supported 171 jobs in FY 2021-22. If the college did not exist, these impacts would not have been generated in the BMCC Service District.

**One out of every 34 jobs** in the BMCC Service District is supported by the activities of BMCC and its students.

### BMCC impacts by industry (jobs supported)




# Investment analysis



An investment analysis evaluates the costs associated with a proposed venture against its expected benefits. The analysis presented here evaluates BMCC as an investment from the perspectives of students, taxpayers, and society in Oregon.

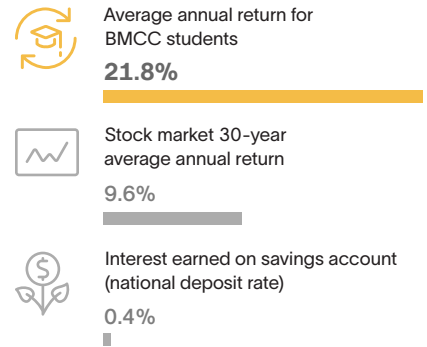
## Student perspective

 In FY 2021-22, BMCC served 2,605 credit and 1,163 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 BMCC's students in FY 2021-22 amounted to a present value of \$7 million, equal to \$5.9 million in out-of-pocket expenses (including future principal and interest on student loans) and \$1.1 million in forgone time and money.

In return for their investment, BMCC's students will receive a stream of higher future earnings that will continue to grow throughout their working lives. For example, the average BMCC associate degree graduate from FY 2021-22 will see annual earnings that are \$7,400 higher than a person with a high school diploma or equivalent working in Oregon. Over a working lifetime, the benefits of the associate degree over a high school diploma will amount to an undiscounted value of \$310,800 in higher earnings per graduate. The present value of the cumulative higher future earnings that BMCC's FY 2021-22 students will receive over their working careers is \$44.2 million.

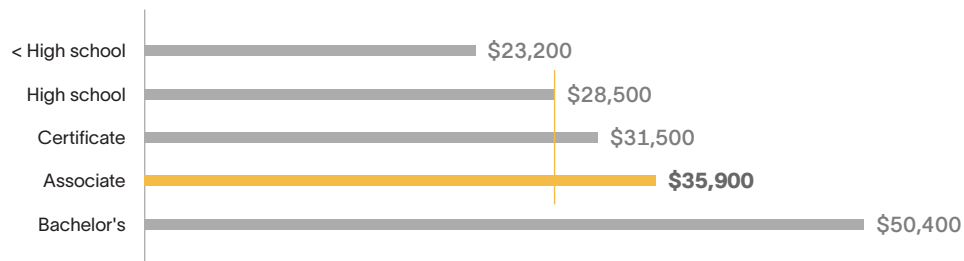
The students' benefit-cost ratio is 6.3. In other words, for every dollar students invest in BMCC in the form of out-of-pocket expenses and forgone time and money, they will receive a cumulative value of \$6.30 in higher future earnings. Annually, the students' investment in BMCC has an average annual internal rate of return of 21.8%, which is impressive compared to the U.S. stock market's 30-year average rate of return of 9.6%.

### Students see a high rate of return for their investment in BMCC



Source: Forbes' S&P 500, 1992-2021. FDIC.gov, 2-2022.

The average associate degree graduate from BMCC will see an increase in earnings of **\$7,400** each year compared to a person with a high school diploma or equivalent working in Oregon.



Source: Lightcast employment data.



## Taxpayer perspective



Taxpayers invested \$18.8 million in BMCC in FY 2021-22, equal to the amount of state and local government funding. In return, BMCC 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 BMCC 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 2021-22 students' working lives, the state and local government will have collected a present value of \$14.7 million in added taxes.

Benefits to taxpayers will also consist of savings generated by the improved lifestyles of BMCC students and the corresponding reduced government services. Education is statistically correlated with a variety of lifestyle changes. The education that BMCC 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. BMCC 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 an education from BMCC will generate \$2 million in savings to state and local taxpayers.

Total taxpayer benefits amount to \$16.8 million, the present value sum of the added tax revenue and public sector savings.

Total taxpayer benefits amount to **\$16.8 million**, the present value sum of the added tax revenue and public sector savings.

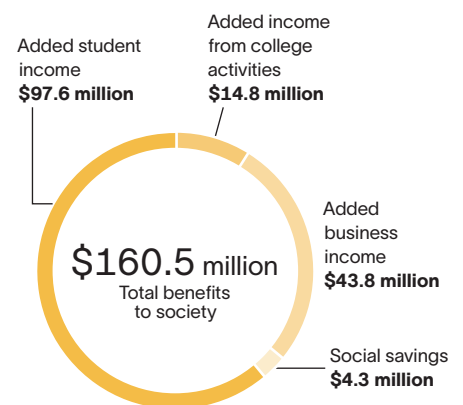
## Social perspective



Society as a whole in Oregon benefits from the presence of BMCC 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 Oregon.

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

### Social benefits in Oregon from BMCC



Source: Lightcast impact model.

Altogether, the social benefits of BMCC equal a present value of \$160.5 million. These benefits include \$97.6 million in added student income, \$43.8 million in added business income, \$14.8 million in added income from college activities, as well as \$4.3 million in social savings related to health, the justice system, and income assistance in Oregon. People in Oregon invested a present value total of \$28.7 million in BMCC in FY 2021-22. The cost includes all the college and student costs.

The benefit-cost ratio for society is 5.6, equal to the \$160.5 million in benefits divided by the \$28.7 million in costs. In other words, for every dollar invested in BMCC, people in Oregon will receive a cumulative value of \$5.60 in benefits. The benefits of this investment will occur for as long as BMCC's FY 2021-22 students remain employed in the state workforce.

### Summary of investment analysis results

The results of the analysis demonstrate that BMCC is a strong investment for students and society. As shown, students receive a great return for their investments in an education from BMCC. From the taxpayer perspective, the benefits generated by the college and its students recover a significant portion of the costs borne by taxpayers and create a wide range of social benefits throughout Oregon.



Student perspective	
Present value benefits <b>\$44.2 million</b>	
Present value costs <b>\$7.0 million</b>	
Net present value <b>\$37.2 million</b>	
Benefit-cost ratio	Rate of return
6.3	21.8%



Taxpayer perspective
Present value benefits <b>\$16.8 million</b>

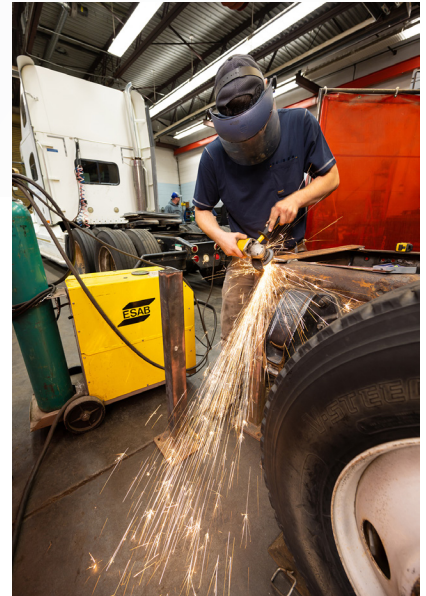


Social perspective	
Present value benefits <b>\$160.5 million</b>	
Present value costs <b>\$28.7 million</b>	
Net present value <b>\$131.9 million</b>	
Benefit-cost ratio	Rate of return
5.6	n/a*

\* 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 BMCC 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. BMCC 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, BMCC benefits society as a whole in Oregon 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 2021-22 academic and financial reports from BMCC, 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. 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 BMCC creates value from **multiple perspectives**.



Lightcast provides colleges and universities with labor market data that help 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 Lightcast 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 [lightcast.io/solutions/education](https://lightcast.io/solutions/education) to learn more or connect with us.