



The Economic Value of Central Oregon Community College

EXECUTIVE SUMMARY

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THE COCC DISTRICT

ENTRAL Oregon Community College (COCC) 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 COCC District.¹ COCC provides students with the education, training, and skills they need to have fulfilling and prosperous careers. Furthermore, COCC is a place for students to meet new people, increase their self-confidence, and promote their overall health and well-being.

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COCC influences both the lives of its students and the regional economy. The college supports a variety of industries in the

COCC District, serves regional businesses, and benefits society as a whole in Oregon from an expanded economy and improved quality of life. The benefits created by COCC even extend to the state and local government through increased tax revenues and public sector savings.

This study measures the economic impacts created by COCC 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) 2018-19. Impacts on the COCC 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.

1 For the purposes of this analysis, the COCC District is comprised of Crook, Deschutes, and Jefferson Counties. It is important to note that COCC also has a presence in Southern Wasco, Klamath, and Lake Counties not captured within this study.



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

Operations spending impact

COCC adds economic value to the COCC District as an employer of regional residents and a large-scale buyer of goods and services. In FY 2018-19, the college employed 530 full-time and part-time faculty and staff, all of whom lived in the COCC District. Total payroll at COCC was \$46.2 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 \$18.7 million on day-to-day expenses related to facilities, supplies, and professional services.

COCC's operations spending added \$57.4 million in income to the region during the analysis year.² 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 \$57.4 million in added income is equivalent to supporting 642 jobs in the region.

Student spending impact



Around 8% of total credit and non-credit students attending COCC originated from outside the region in FY 2018-19, and some of these students relocated to the COCC District to attend COCC.

These students may not have come to the region if the college did not exist. In addition, some in-district students, referred to as retained students, would have left the COCC District if not for the existence of COCC. While attending the college, these relocated and retained students spent money on groceries, accommodation, transportation, and other household expenses. This spending generated \$22.1 million in added income for the regional economy in FY 2018-19, which supported 449 jobs in the COCC District.

2 Refer to Table 2.2 of the Main Report for further details on the operations spending impact.

IMPACTS CREATED BY COCC IN FY 2018-19









\$298.9 million

- OR -

4,166
JOBS SUPPORTED

Alumni impact



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

edge and new skills. Today, thousands of former COCC students are employed in the COCC District. As a result of their COCC educations, the students receive higher earnings and increase the productivity of the businesses that employ them. In FY 2018-19, COCC alumni generated \$219.4 million in added income for the regional economy, which is equivalent to supporting 3,075 jobs.

Total impact

COCC added \$298.9 million in income to the COCC 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 \$298.9 million impact was equal to approximately 2.5% of the total gross regional product (GRP) of the COCC District. This contribution that the college provided on its own was larger than the entire Transportation & Warehousing industry in the region.

One out of every 35 jobs in the COCC

District is supported by the activities of COCC and its students.

COCC's total impact can also be expressed in terms of jobs supported. The \$298.9 million impact supported 4,166 regional jobs, using the jobs-to-sales ratios specific to each industry in the region. This means that one out of every 35 jobs in the COCC District is supported by the activities of COCC and its students. In addition, the \$298.9 million, or 4,166 supported jobs, stemmed from different industry sectors. Among non-education industry sectors, COCC's spending and alumni in the Retail Trade industry sector supported 756 jobs in FY 2018-19.

COCC IMPACTS BY INDUSTRY (JOBS SUPPORTED)



/50

Retail Trade



144

Health Care & Social Assistance



438

Real Estate & Rental & Leasing



419

Accommodation & Food Services



288

Other Services (except Public Administration)

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 COCC as an investment from the perspectives of students, taxpayers, and society in Oregon.

Student perspective

In FY 2018-19, COCC served 8,219 credit and 7,350 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 COCC's students in FY 2018-19 amounted to a present value of \$39.3 million, equal to \$14 million in out-of-pocket expenses (including future principal and interest on student loans) and \$25.3 million in forgone time and money.

In return for their investment, COCC's students will receive a stream of higher will receive over their working careers is \$144.1 million.

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



18.5%

Average annual return for COCC students



9.9%

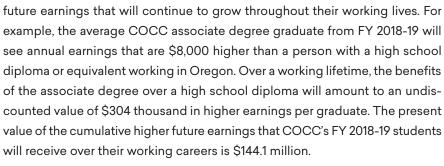
Stock market 30-year average annual return

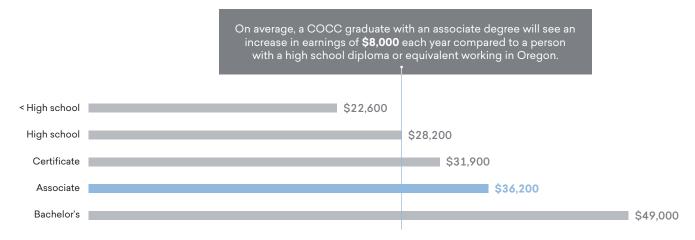


0.8%

Interest earned on savings account (National Rate Cap)

Source: Forbes' S&P 500, 1989-2018. FDIC.gov, 6-2019.





Source: Emsi employment data.

The students' benefit-cost ratio is 3.7. In other words, for every dollar students invest in COCC, in the form of out-of-pocket expenses and forgone time and money, they will receive a cumulative value of \$3.70 in higher future earnings. Annually, the students' investment in COCC has an average annual internal rate of return of 18.5%, which is impressive compared to the U.S. stock market's 30-year average rate of return of 9.9%.

Taxpayer perspective



COCC 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

COCC 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 2018-19 students' working lives, the state and local government will have collected a present value of \$54.9 million in added taxes.

Benefits to taxpayers will also consist of savings generated by the improved lifestyles of COCC students and the corresponding reduced government services. Education is statistically correlated with a variety of lifestyle changes. Students'

For every dollar of public money invested in COCC, taxpayers will receive a cumulative value of **\$2.00** over the course of the students' working lives.

COCC educations will generate savings in three main categories: 1) health-care, 2) crime, and 3) income assistance. Improved health will lower students' demand for national health care services. In addition, students will be less likely to interact with the criminal justice system, resulting in a reduced demand for law enforcement and victim costs. COCC 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 COCC education will generate \$4.2 million in savings to state and local taxpayers.

Total taxpayer benefits amount to \$59.1 million, the present value sum of the added taxes and public sector savings. Taxpayer costs are \$29.7 million, equal to the amount of state and local government funding COCC received in FY 2018-19. These benefits and costs yield a benefit-cost ratio of 2.0. This means



STUDENT PERSPECTIVE

\$144.1 million
Present value benefits

\$39.3 million Present value costs

\$104.8 million Net present value

Benefit-cost ratio

Rate of return

3.7

18.5%



TAXPAYER PERSPECTIVE

\$59.1 million
Present value benefits

\$29.7 million Present value costs

\$29.3 million Net present value

Benefit-cost ratio

Rate of return

2.0

7.0%



SOCIAL PERSPECTIVE

\$582.6 million Present value benefits

\$94.4 million Present value costs

\$488.3 million Net present value

Benefit-cost ratio

Rate of return

6.2

n/a*

* The rate of return is not reported for the social perspective because the beneficiaries of the investment are not necessarily the same as the original investors. that for every dollar of public money invested in COCC in FY 2018-19, taxpayers will receive a cumulative value of \$2.00 over the course of the students' working lives. The average annual internal rate of return for taxpayers is 7.0%, which compares favorably to other long-term investments in the public and private sectors.

Social perspective

Society as a whole in Oregon benefits from the presence of COCC in two major ways. Primarily, society benefits from an increased economic base in the state. This is attributed to higher student earnings and increased business output, which raise economic prosperity in Oregon.

Benefits to society also consist of the savings generated by the improved lifestyles of COCC 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. Savings related to crime include reduced security expenditures and insurance administration, lower victim costs, and reduced expenditures by the criminal justice system. 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.

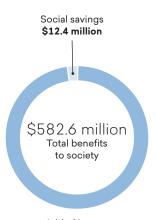
Altogether, the social benefits of COCC equal a present value of \$582.6 million. These benefits include \$570.3 million in added income through students' increased lifetime earnings and increased business output, as well as \$12.4 million in social savings related to health, crime, and income assistance in Oregon. People in Oregon invested a present value total of \$94.4 million in COCC in FY 2018-19. The cost includes all the college and student costs.

The benefit-cost ratio for society is 6.2, equal to the \$582.6 million in benefits divided by the \$94.4 million in costs. In other words, for every dollar invested in COCC, people in Oregon will receive a cumulative value of \$6.20 in benefits. The benefits of this investment will occur for as long as COCC's FY 2018-19 students remain employed in the state workforce.

Summary of investment analysis results

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

SOCIAL BENEFITS IN OREGON FROM COCC



Added income \$570.3 million

Conclusion

The results of this study demonstrate that COCC 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. COCC 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

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

increased tax receipts and a reduced demand for government-supported social services. Finally, COCC 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 2018-19 academic and financial reports from COCC, industry and employment data from the U.S. Bureau of Labor Statistics and U.S. Census Bureau, outputs of Emsi'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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