SAUK VALLEY COMMUNITY COLLEGE’S ECONOMIC IMPACTS

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By

The Center for Governmental Studies
Northern Illinois University
The Sauk Valley Community College’s Economic Impacts report was prepared by the Center for Governmental Studies at Northern Illinois University (NIU) under agreement with the Illinois Community College Board (ICCB). Questions and inquiries regarding the contents of this report may be directed to Brian Richard at NIU (815/753-0162) or Nathan Wilson at ICCB (217/558-2067).

The findings and conclusions presented in this report are those of the NIU project team alone and do not necessarily reflect the views, opinions, or policies of the officers and/or trustees of Northern Illinois University nor those of the employees, officers, and/or trustees of the Illinois Community College System.
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Table of Contents

INTRODUCTION .................................................................................................................. 1

HIGHLIGHTS OF SIGNIFICANT FINDINGS ........................................................................ 4

SECTION 1: Sauk Valley Community College Student Economic Outcomes .................. 6
  SAUK VALLEY COMMUNITY COLLEGE STUDENT ECONOMIC OUTCOMES - RETURN ON INVESTMENT ......................................................................................... 6
  STUDENT LOAN DEBT AND ITS IMPACT ON RETURN ON INVESTMENT ................... 8
  SAUK VALLEY COMMUNITY COLLEGE STUDENT ECONOMIC OUTCOMES – EMPLOYMENT AND EARNINGS ANALYSIS ................................................................. 9
  SAUK VALLEY COMMUNITY COLLEGE STUDENT ECONOMIC OUTCOMES – GENERATED TAX REVENUES .......................................................................................... 16

SECTION 2: Sauk Valley Community College Economic IMPACTS ................................ 17
  SAUK VALLEY COMMUNITY COLLEGE ECONOMIC IMPACTS – EXPENDITURES AND EMPLOYMENT ......................................................................................... 17

SECTION 3: Characteristics of Sauk Valley Community College Students ..................... 20
  1. Total Enrollments and Completions ........................................................................... 21
  2. Degrees and Certificates ......................................................................................... 21
  3. Age ......................................................................................................................... 22
  4. Race and Ethnicity .................................................................................................... 24
  5. Gender .................................................................................................................... 25
  6. Students with Disabilities ....................................................................................... 25
  7. Highest Grade Completed at Enrollment ................................................................ 26
  8. Residence ................................................................................................................ 28
  9. Student Intent ......................................................................................................... 30
  10. Educational Objective ........................................................................................... 32
  11. Program Classification .......................................................................................... 34
  12. Instructional Program ............................................................................................ 35
  13. Veteran Status ....................................................................................................... 37
  14. Online Status ....................................................................................................... 37
  15. Student Level Status .............................................................................................. 38

DATA LIMITATIONS AND POTENTIAL FUTURE ENHANCEMENTS .......................... 40

GLOSSARY ......................................................................................................................... 42

DATA SOURCES ................................................................................................................. 43
INTRODUCTION

Sauk Valley Community College, located in Dixon, Illinois (see Figure 1), is one of 39 college districts in the state that play a vital role in the educational and workforce preparation of the individuals and communities they serve. An integral part of Illinois’ higher education system, Sauk Valley Community College provides high-quality, accessible, and cost-effective educational opportunities for residents in a five county area in Sauk Valley Community that includes all or portions of Bureau, Carroll, Lee, Ogle, and Whiteside counties.

Founded in 1965, Sauk Valley Community College offers academic and vocational-technical instruction in a wide variety of associate degree, transfer, or certificate programs of study as well as adult continuing education programs that serve as a gateway to higher education for many community residents, employers, and K-12 students. Courses are offered on 144 acre campus in Dixon.

Sauk Valley Community College contributes to the vitality of its service area in many ways: educationally, culturally, recreationally, civically, and economically. Perhaps the least measured and understood of these are the economic contributions. Consider that:

- Sauk Valley Community College adds skills to our workforce and boosts the competitiveness of area businesses.
- Sauk Valley Community College graduates generate millions of dollars in local, state, and federal tax revenues.
- A Sauk Valley Community College education increases earnings for workers. By completing courses, students gain skills that contribute to higher earnings and graduates enjoy even higher returns.
- As a major employer and business entity, Sauk Valley Community College generates millions of dollars in local sales and wages and an estimated 324 jobs.

The current study is unique from many other state and national higher education economic impact analyses because the Illinois Community College Board (ICCB), in collaboration with Illinois Department of Employment Security (IDES) and Northern Illinois University (NIU) Center for Governmental Studies (CGS), maximized student-level and employee-level data through Illinois Longitudinal Data Systems. Specifically, ICCB Centralized Data System student-level data and IDES Workforce Longitudinal Data System employee-level wage data were matched by NIU CGS to determine student economic impact through their employment and earning gains. The economic impacts of the Illinois community colleges were identified through employee-level data, operations expenditures, and capital expenditures from ICCB’s Centralized Data System and annual ICCB financial submissions.
Figure 1. Sauk Valley Community College
A summary of key findings is presented in the next section followed by the detailed study results. These address the characteristics of Sauk Valley Community College students taking credit courses, student Return on Investment (ROI) and economic outcomes, estimated tax revenues paid by Sauk Valley Community College students, community college market penetration, and the economic impact of Sauk Valley Community College.

Tables and charts are used throughout the body of the report to graphically depict trends and characteristics. These graphics are supported by data presented in the report appendices. It is important to note that the numbers reflect unduplicated counts of student enrollees and completers and include adult education and English as a Second Language (ESL) students. As a result, they may vary from totals in previously published ICCB reports that represent unduplicated counts of enrollments and duplicated counts of graduates who complete multiple certificates or degrees in the same fiscal year.
HIGHLIGHTS OF SIGNIFICANT FINDINGS

Sauk Valley Community College serves three integral educational purposes: it strengthens individuals’ foundational academic skills, offers occupation-specific education and training, and prepares students for transfer to four-year post-secondary institutions. These activities represent significant economic contributions by increasing workers’ earnings potential and generating additional tax revenues. Moreover, Sauk Valley Community College is among the largest employers in the area and generates substantial additional economic benefits for local communities through local expenditures and employment impacts.

This economic impact analysis of Sauk Valley Community College considers changes in student characteristics over a 12-year period, student outcomes, tax revenues generated, and economic impacts. Following are a number of significant findings from the analysis.

Students who complete their program of study realize the greatest benefits:

- A Sauk Valley Community College program graduate can expect a total lifetime earnings gain over a 40 year career of about $600,000. This is a 46% increase over the $1.3 million average total lifetime earnings of those not completing a community college program.

- These earnings gains are realized with an average investment of about $35,000, including foregone earnings while in college. The annual rate of return on this initial investment in a Sauk Valley Community College degree is about 20%.

A Sauk Valley Community College education increases earnings for workers.

- On average, all students who completed their Sauk Valley Community College education in FY11 saw a $2,400 increase in earnings over their pre-enrollment wages.

- When looking at just completers in Associate of Applied Science and long-term certificate programs, the first year earnings increase was $7,994.

Sauk Valley Community College graduates generate millions of dollars in local, state, and federal tax revenues.

- Sauk Valley Community College students who attended school in 2002 paid an estimated $27.5 million in state taxes and $90.6 million in federal taxes between 2003 and 2012.

- Sauk Valley Community College students who graduated in 2002 paid an estimated $3 million in state taxes and $9.8 million in federal taxes over the next 10 years.
As a major employer and business entity, Sauk Valley Community College generates millions of dollars in local sales and wages annually and almost 330 jobs.

- In FY12, about 240 full-time and part-time staff lived in the district with a total payroll of almost $9.2 million.
- In addition to wages and salaries, Sauk Valley Community College reported $9 million in operating and capital expenditures.

Including the multiplier effect, the total economic impact of Sauk Valley Community College on the regional economy in FY12 was estimated at $15.2 million and 329 jobs.
SECTION 1: SAUK VALLEY COMMUNITY COLLEGE STUDENT ECONOMIC OUTCOMES

This section examines the economic outcomes for individuals who were Sauk Valley Community College (SVCC) students. The source of community college student employment and earnings data is the Unemployment Insurance (UI) wage record data reported by Illinois employers for each of their employees. UI data are collected on a quarterly basis by the Illinois Department of Employment Security (IDES).

This comprehensive employment data source is estimated to cover 96 percent of total wage and salary civilian jobs.1 While it is an immense database, there are certain limitations. The UI wage records contain neither the number of hours worked by participants nor the position they held.IDES provided the Center for Governmental Studies at NIU access to these data for the purposes of this study.

SAUK VALLEY COMMUNITY COLLEGE STUDENT ECONOMIC OUTCOMES – RETURN ON INVESTMENT

To begin assessing the economic impact of a SVCC student, it must be realized that education at a community college is an investment. Students attending college pay for their education in both cash and in foregone earnings. Thenet cash price is the cost of tuition, fees, books, and room and board. Foregone earnings result when a student spends time going to school and studying in place of earning money at work.

The analysis in this section focuses on the return on investment of students that completed a program, referred to as ‘completers’, in FY2011. The cost of attending school during the FY2010 and FY2011 school years is compared with projected earnings over a 40 year post graduation time frame. The results are net present value (NPV) and internal rate of return (IRR) estimates for the average completer in FY2011.

The net cash price of attending school was obtained from the National Center for Education Statistics’ College Navigator tool. College Navigator employs Integrated Postsecondary Education Data System (IPEDS) data from the National Center for Education Statistics to calculate the ‘average net price’ for annual attendance at each school.

1 See http://www.bls.gov/opub/hom/pdf/homch5.pdf. Examples of employment not covered by UI laws include self-employment and some agricultural and domestic work.
The other major cost for college attendees is their foregone earnings, often referred to as the ‘opportunity cost’ of attending college. The estimate for foregone earnings is based on completers’ earnings in the 12 months prior to their enrollment in the college. It is assumed that their average income would have increased by 3% per year during their two years in college.

The major benefit of completing college is the resulting increased earnings. Pre-enrollment to post-completion earnings gains were calculated for graduates of 2 year Associate of Applied Science and 2 year certificate programs at Sauk Valley College. Gains for these graduates averaged $7,994 in the first year.

Figure 2 presents the net return analysis based on the calculations noted above. The total cost during the two years the student is in school, including out of pocket expenses and foregone earnings is $35,292. The return on investment occurs over a 40 year working life, where increased earnings for a degree completer are estimated to total over $600,000 (compared to someone not attending community college).

![Figure 2: Estimated Net Return for Associate Degree Completers](image)

<table>
<thead>
<tr>
<th>Year</th>
<th>Net Price</th>
<th>Opportunity Cost</th>
<th>Total Cost</th>
<th>Increased Earnings</th>
<th>Discounted Cash Flow</th>
</tr>
</thead>
<tbody>
<tr>
<td>-1</td>
<td>6,049</td>
<td>$10,900</td>
<td>$16,949</td>
<td></td>
<td>-$17,627</td>
</tr>
<tr>
<td>0</td>
<td>7,117</td>
<td>$11,227</td>
<td>$18,344</td>
<td></td>
<td>-$18,344</td>
</tr>
<tr>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td>$7,994</td>
<td>$8,327</td>
</tr>
<tr>
<td>2</td>
<td></td>
<td></td>
<td></td>
<td>$8,234</td>
<td>$8,234</td>
</tr>
<tr>
<td>3</td>
<td></td>
<td></td>
<td></td>
<td>$8,481</td>
<td>$8,142</td>
</tr>
<tr>
<td>4</td>
<td></td>
<td></td>
<td></td>
<td>$8,736</td>
<td>$8,051</td>
</tr>
<tr>
<td>5</td>
<td></td>
<td></td>
<td></td>
<td>$8,998</td>
<td>$7,961</td>
</tr>
<tr>
<td>:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>......</td>
</tr>
<tr>
<td>38</td>
<td></td>
<td></td>
<td></td>
<td>$73,865</td>
<td>$5,489</td>
</tr>
<tr>
<td>39</td>
<td></td>
<td></td>
<td></td>
<td>$24,581</td>
<td>$5,428</td>
</tr>
<tr>
<td>40</td>
<td></td>
<td></td>
<td></td>
<td>$25,318</td>
<td>$5,367</td>
</tr>
<tr>
<td>Total Increased Earnings</td>
<td>$602,778</td>
<td>NPV</td>
<td>$233,708</td>
<td></td>
<td></td>
</tr>
<tr>
<td>IRR</td>
<td>20.0%</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

The net present value of investing in a community college associate degree is over $233,000. The internal rate of return on their investment is 20%. In other words, if a student put $35,292 in an investment that returned 40 annual payments equivalent to the earnings gains from an associate degree, they would earn interest at a rate of 20%.
This analysis is conservative because it is based on increased earnings in the first post-completion year. Earnings for many program completers grow significantly in the second through fifth post-completion years.

**STUDENT LOAN DEBT AND ITS IMPACT ON RETURN ON INVESTMENT**

Media stories related to student loan debt have been increasingly common in recent years. According to the Federal Reserve Bank of New York, in 2012 the average student loan balance for Americans under 30 was about $21,000\(^2\). That was up from about $13,500 in 2005. About 42% of 25-year-olds have some amount of student debt.

Average student loans for Sauk Valley Community College students tend to be significantly smaller than the national averages. According to College Navigator, about 12% of SVCC students took out student loans in 2012. Those loans averaged about $2,547.

When used responsibly, student loans can actually increase the rate of return of a college education. Students loans reduce the upfront cash cost of college. Loan repayment reduces the cash flow associated with earnings gains for several years after program completion. The rate of return on paying for college is increased if the average interest rate on federal student loans is lower than the rate of return from education.

The benefits to using student loans to pay for education only occur if the student receives a strong return on their educational investment. The analysis in this report shows the majority of SVCC students do receive a good return in terms of earnings.

While many college graduates find suitable work upon graduation some have difficulty obtaining employment in competitive fields. The recent recession compounded this issue. Nationally, there are more student loan delinquencies. In 2012, 17 percent of borrowers were over 90 days delinquent, up from under 10 percent in 2004\(^3\). Student loan data for individuals are not available to analyze how these loans are impacting SVCC students. However, it is clear from national trends that counseling students on the proper use and management of student loans is becoming increasingly important.

The following sections investigate student economic outcomes from a variety of perspectives. First broad economic outcomes measured by employment and earnings are calculated. Next, average earnings gains and gains per credit hour are presented.

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Figure 3 displays the average annual post-completion earnings (inflation adjusted to 2012 $) for two groups of program completers from 2000 to 2011. The first group is the set of program completers that worked in each of the four post-program quarters (full-year), and the second group is the set of those that worked each of the quarters at an earnings level that was above minimum wage for 30 hours per week (full-time, full year).

![Figure 3. Average Annual Earnings (Inflation Adjusted $) Program Completers 2000-2011](image)

Earnings for those identified as full-year workers generally rose from 2000 to 2003. Beginning in 2004, this group saw a decline in real earnings, ending in 2011 about 16% lower than 2000. The group identified as full-time, full-year also experienced gains in their real (inflation adjusted) earnings from 2000 to 2004. Starting in 2005, earnings fluctuated up and down through 2011. By 2011, real earnings for full-time, full year workers were about 2.4% higher than in 2000.
The UI data from IDES only includes individuals earning wages in Illinois. Program completers that successfully find employment in another state are not included. This issue may be important to consider for SVCC because the western border of the district is along the border with Iowa. Additionally, self-employed small business owners and certain agricultural workers are not covered by unemployment insurance and thus, are not included. Finally, since this measure only looks at the initial post-completion year, students delaying employment to continue their education will have very low or no earnings. These students, who intend to transfer to a four-year college, are becoming an increasingly large portion of community college graduates. Between 2006 and 2012, the percentage of statewide completers stating their intention to transfer grew from 33% to 38.5%. Analysis examining longer term earnings gains of certain program completers is included later in this report. It shows that earnings can grow significantly in the several years following completion.

National income measures exhibit similar trends. According to the Bureau of Labor Statistics, average inflation adjusted earnings of individuals employed full-time that had some college or an associate degree rose by about 2.6% between 2000 and 2011.4 This group most closely matches the full-time, full year earnings shown in Figure 3.

Figure 4 explores the relationship between credit hours and earnings gains. The results show that while there is a generally positive relationship between the number of credit hours earned and earnings gains, as the number of credit hours increases the average gain per credit hour decreases. Further exploration of the contributing factors could involve the actual pre-program earning (absolute dollar amount), age, and workforce experience of the exiters versus the completers. For example, a mid-career professional engaged in skill upgrading could see greater returns than someone who is initially entering the workforce. The chosen field of endeavor also influences outcomes.

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Figure 4. Earnings Gain and Average Gain per Credit Hour by Earned Credit Hour Groups - Exits FY2011 (Completers and Non-Completers)

<table>
<thead>
<tr>
<th>Earned Credit Hours</th>
<th>Total Number of Exiters</th>
<th>Pct of Total</th>
<th>Average Earnings Gains</th>
<th>Average Earnings Gain Per Credit Hour</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total</td>
<td>2,889</td>
<td>100.0%</td>
<td>$3,350</td>
<td>$178</td>
</tr>
<tr>
<td>.5 to 04 hours</td>
<td>9/1</td>
<td>33.6%</td>
<td>$2,486</td>
<td>$1,169</td>
</tr>
<tr>
<td>05 to 09</td>
<td>597</td>
<td>20.7%</td>
<td>$3,050</td>
<td>$426</td>
</tr>
<tr>
<td>10 to 14</td>
<td>293</td>
<td>10.1%</td>
<td>$4,957</td>
<td>$419</td>
</tr>
<tr>
<td>15 to 19</td>
<td>185</td>
<td>6.4%</td>
<td>$3,443</td>
<td>$202</td>
</tr>
<tr>
<td>20 to 24</td>
<td>123</td>
<td>4.3%</td>
<td>$4,300</td>
<td>$195</td>
</tr>
<tr>
<td>25 to 29</td>
<td>81</td>
<td>2.8%</td>
<td>$1,177</td>
<td>$44</td>
</tr>
<tr>
<td>30 to 34</td>
<td>74</td>
<td>2.6%</td>
<td>$4,987</td>
<td>$156</td>
</tr>
<tr>
<td>35 to 39</td>
<td>68</td>
<td>2.4%</td>
<td>$1,490</td>
<td>$40</td>
</tr>
<tr>
<td>40 to 44</td>
<td>53</td>
<td>1.8%</td>
<td>$71</td>
<td>$2</td>
</tr>
<tr>
<td>45 to 49</td>
<td>57</td>
<td>2.0%</td>
<td>$1,019</td>
<td>$22</td>
</tr>
<tr>
<td>50 to 54</td>
<td>56</td>
<td>1.9%</td>
<td>$3,616</td>
<td>$70</td>
</tr>
<tr>
<td>55 to 59</td>
<td>44</td>
<td>1.5%</td>
<td>$5,587</td>
<td>$98</td>
</tr>
<tr>
<td>60 and up</td>
<td>285</td>
<td>9.9%</td>
<td>$6,142</td>
<td>$82</td>
</tr>
</tbody>
</table>

The focus now turns to the percentage of SVCC program completers who are identified as employed in the first or second full post-completion quarter. Figure 5 displays employment rates of students who complete a program of at least one credit hour for each year from 2000 to 2012. Over this period employment rates bounced between 68% and 83%. This outcome should not be viewed as the most important measure of success since many completers do not seek employment because they immediately transfer to a four-year college.

To some extent, the decline in employment rates can be explained by overall economic conditions. According to the U.S. Census Bureau’s American Community Survey, between 2007 and 2012, the unemployment rate for the Illinois’ population ages 25 to 64 with some college increased from 5.8% to 8.9%.

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5 The 1st full post-completion quarter is the first full quarter after the completion of the program. This is to avoid using wages that were earned while the student was in the program.
Another method of examining the post-completion earnings of community college students is to track the earning of a specific cohort of completers over time. For this analysis, the average annual earnings of all SVCC completers during the year 2000 were tracked over a 12-year period (see Figure 6). The results indicate that the former students had steady earnings increases in the years following program completion. Even during the national recession, SVCC completers generally continued to see earnings gains.
One of the major advantages of using longitudinal measurement of UI wage data is the possibility of examining pre-enrollment and post-completion wages. The major difficulty in performing such an analysis is identifying the appropriate pre-enrollment period. Since community college students vary widely in their course-taking behavior (they can attend classes full-time, part-time, or intermittently), identifying the entry date for a student in a program can be challenging. The approach taken for this study was to examine each of the years prior to the date of program completion. If there were no earned hours during a given year, the enrollment date was set to the first day of the semester in which credit hours were earned.6

Once the enrollment date for each completer was determined, UI earnings for the four full pre-enrollment quarters were used to produce an annual pre-enrollment earnings amount. Similarly, UI earnings for the four full post-completion quarters were used to determine the

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6 For example, if a student completed a program in 2010, the procedure was to look at the credit hours earned in 2009, 2008, etc. If no credit hours were earned in 2008, then the start date of the earliest semester in which credits were earned was defined as the enrollment date.
annual post-completion earnings. The results obtained for all program completers and completers most likely to directly enter the workforce following completion (AAS and long-term certificate programs) from 2005 to 2011 are displayed in Figure 7.

In the year following completion, about 80 percent of 2011 Sauk Valley completers were employed in Illinois. That was slightly higher than the statewide average of 77 percent. Looking at a longer time horizon, about 96 percent of 2005 completers were employed in Illinois in the five years following program completion, somewhat higher than the statewide average of 87 percent.

The average pre-enrollment to post-completion earnings gain over the eight-year period from 2005 to 2011 was $3,598. This translates to a $1.98 per hour increase in earnings assuming full-time, full-year employment ($3,598 / (52 weeks x 35 hours)). The trend indicates a decline in earnings gains beginning in 2006. This period of decline coincides with the national economic recession.

For completers in Associate of Applied Science and long term (more than 30 semester hours) certificate programs, earnings gains were higher. The average pre-enrollment to post-completion earnings gain for completers in these programs was $12,637. Earnings gains fell significantly in 2011.

In real terms, average earnings decreased for workers of all educational levels during the recession. According to the U.S. Census Bureau’s American Community Survey, between 2007 and 2012, the median earnings of Illinois’ population ages 25 to 64 decreased by $2,006, adjusted for inflation during this time. Median earnings for Illinois residents with some college or an associate degree decreased by $3,028.

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7 The data series ends in 2011 due to the lack of a full year of post-completion data and begins in 2005 due to the lack of sufficient hours earned by semester for the earlier completion cohorts.
As with the measure of employment used previously (Figure 5), post-completion earnings as measured here tend to understate the success of program completers. The data does not capture certain workers (self-employed, certain agricultural workers, etc.), nor do they capture workers who have successfully found employment in other states. Importantly, since this measure only looks at the initial post-completion year, students delaying employment to continue their education will have very low or no earnings.
SAUK VALLEY COMMUNITY COLLEGE STUDENT ECONOMIC OUTCOMES – GENERATED TAX REVENUES

SVCC students generate significant tax revenues. In this section, the amount of tax dollars contributed by SVCC students to the federal and state tax base over a period of 10 years is estimated. Separate estimates are produced for students who were enrolled in a community college during 2002 and for the subset of those students who completed programs in 2002.

For these analyses, students enrolled at SVCC in FY2002 were identified. The annual total UI earnings for these individuals were obtained for each year from 2003 to 2012. Taxable earnings were estimated by subtracting the standard deduction for an individual from the annual earnings for each tax year. Federal taxes were estimated by applying the average marginal tax rate for a given year to the taxable earnings for that year. State taxes were estimated by applying the appropriate Illinois state tax rate (3% up to 2010 and 5% after 2011) to annual taxable earnings.

Although this is a simplistic approach for estimating tax revenues in both cases, given the limitations of available data, it may be used to reasonably approximate the magnitude of taxes paid by this cohort of Sauk Valley Community College students. The results of this analysis are presented in Figure 8.

**Figure 8. Estimated Federal and State Taxes Paid by Enrollees and Completers (2002 Cohort) 2003 – 2012**

<table>
<thead>
<tr>
<th>2002 Cohort</th>
<th>Federal Taxes</th>
<th>State Taxes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Enrollees</td>
<td>$90,629,212</td>
<td>$27,493,988</td>
</tr>
<tr>
<td>Completers</td>
<td>$9,839,714</td>
<td>$3,010,994</td>
</tr>
</tbody>
</table>

Substantial federal and state tax revenue is produced by SVCC students. It is estimated that $90.6 million in federal taxes was generated between 2003 and 2012 by students who attended SVCC in 2002. Of that total, about 11% was contributed by students who completed in 2002. Similarly, of the estimated $27.5 million in state tax dollars generated by 2002 enrollees, a similar percentage or $3 million would have been generated by 2002 completers.
SECTION 2: SAUK VALLEY COMMUNITY COLLEGE ECONOMIC IMPACTS

SAUK VALLEY COMMUNITY COLLEGE ECONOMIC IMPACTS – EXPENDITURES AND EMPLOYMENT

Sauk Valley Community College is an important source of expenditures and employment for the region. As part of their day-to-day operations, the college purchases goods and services, many of them from the local economy. In addition, the income earned by their employees is spent in the local economy. Additionally, the college invests in site improvements, remodeling, and new construction that generate additional expenditures and jobs.

Any change in economic activity, such as the purchase of a commodity or a service, has direct and indirect effects. The direct effects are the employment, payroll and purchases of goods and services directly by the colleges. The indirect effects occur through a variety of channels. For example, when a community college hires a local printer to produce its catalogues and brochures, these orders contribute to the income of the local printing industry. The printers’ employees spend at least some of their income locally, and these purchases contribute to the employment and the income of other local industries and services. The printers spend part of their income from the community college’s orders on the supplies that they need to run their businesses. To the extent that these purchases are local, they contribute to the incomes of employees in other industries, who in turn spend their incomes on still other goods and services with these effects again induced by the college’s initial purchase.

IMPLAN Pro economic modeling software was used to produce estimates of the indirect economic impacts of the college, based on the direct impacts. Direct impacts are simply the set of expenditures or employment applied to the predictive model for impact analysis. Indirect impacts are then derived as additional effects caused by industries purchasing from other industries. Induced impacts take into account the spending in the local economy of the new income generated by the new employment produced from the impact.

Taken together, direct and indirect impacts attributable to SVCC activities in fiscal year 2012 approached $15.2 million in value added (equivalent to gross state product) and an estimated 329 jobs. Summary data are provided in Figure 9.
Operational Expenditures. Data provided by SVCC to the Illinois Community College Board identified $13.9 million in operating expenditures during fiscal year 2012 (including wages and salaries, but excluding capital investments, which are analyzed in the next section). SVCC paid almost $9.2 million in wages and benefits to their 241 employees that lived in the district. These direct impacts rippled through the economy creating additional jobs, payrolls, and other economic activity. These impacts are summarized in Figure 10. Over 280 jobs in the region could be attributed to college operations. These operations were associated with about $19.6 million in economic output (equivalent to total sales of a business or total spending of a government enterprise). Value added, which is a measure similar to gross state product, totaled over $12.8 million.

Capital Expenditures. In addition to the economic activity generated by SVCC operating and employee expenditures, the college’s capital development projects also contribute significantly to the local economy. Since FY2008, the college has invested over $8.5 million in capital projects in the district. In FY2012, the $4.5 million in expenditures generated an estimated $1.4 million in indirect output for a total impact of $5.9 million. These expenditures generated an estimated 100 jobs throughout the district. As can be seen in Figure 11, construction expenditures and resulting economic impacts vary from year to year.
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SECTION 3: CHARACTERISTICS OF SAUK VALLEY COMMUNITY COLLEGE STUDENTS

To provide a context for understanding the economic impacts of Sauk Valley Community College, an analysis of student characteristics and program enrollment and completion between 2000 and 2012 for credit classes was undertaken. While not the primary focus of this report, it is nonetheless useful to identify significant changes in the student population that occurred over this 12-year period.

This section highlights the noteworthy changes over this period in enrollments and completions in credit courses for 15 characteristics of SVCC students. These include:

1. Total enrollments and completions
2. Degrees and certificates
3. Age
4. Race and ethnicity
5. Gender
6. Students with disabilities
7. Highest grade completed at enrollment
8. Residence
9. Student intent
10. Educational objective
11. Program classification
12. Instructional program
13. Veteran status
14. Online status
15. Student level status

In reviewing these enrollment and completion trends, it is important to keep in mind the distinction between these two groups of students. **Enrollments** are not first-time entrants into the college system. Rather, they are all students who have taken one or more courses and earned academic credit in a given year. Some have taken courses in the previous year and others will take courses in subsequent years. Enrollments reflect a point-in-time figure of active students in the year under consideration.

**Completers** are students who have completed a course of study and have earned either a certificate or degree in a given year. For short-term certificates, these students may have been enrolled for a single year, the time necessary to earn that certificate. Other completers may have been enrolled in previous years and still others may enroll in the future to take additional courses after finishing an initial program. Completers received a certificate or degree in the year under consideration.
1. **Total Enrollments and Completions.**
   Overall, SVCC enrollments in credit courses increased from 4,340 in 2000 to 5,661 in 2006, then declined to 4,317 in 2012.

   The rate of increase in program completers has been much more significant. Program completions more than doubled during this same period. There were 326 completers in 2000, 390 completers in 2006, and 704 completers in 2012.

2. **Degrees and Certificates.**
   Certificate completion growth outpaced degree completion growth. The percentage of program completers earning a career certificate of less than 30 hours increased strongly from 2000 to 2012 (19% to 55.3%). Three associate degree programs - Applied Science, Science, and Arts, - experienced declines over this period. Figure 12 shows these changes over the 12-year period.

![Figure 12. Program Completers by Degree Type](image-url)

   **Figure 12. Program Completers by Degree Type**
   **2000, 2006, 2012**
3. **Age.**

More students are currently enrolling in community college directly after high school. The average age of enrollees declined from 30.1 years of age in 2000 to 26.3 years by 2012. The percentage of enrollees aged 24 or less increased from 49.2% to 62.9% of the total. The enrollments of the older age groups (over 35) all declined. Figure 13 illustrates the percentages of enrollees by age grouping.

![Figure 13. Program Enrollments by Age at Enrollment 2000, 2006, 2012](image)

The average age of completers also declined, but to a lesser extent than overall enrollments. The average age at program completion increased from 27.8 to 29.7 years from 2000 to 2006. The average age of completers then declined to 26.3 by 2012. As indicated in Figure 14, the largest age cohort of completers was Age 20 to 24 at about 37% followed by Age 19 or Less at 27%.
Figure 14. Program Completers by Age at Enrollment
4. **Race and Ethnicity.**

Enrollments at the college have increased for minorities from 2000 to 2012, while enrollments for whites during the same period have decreased. However, minority enrollment at the college remains quite small African American enrollees comprised the largest non-white group, growing from 2.2% in 2000 to 3.2% in 2012. White enrollees as a percentage of the total decreased by 4.5 percent over this period. Figure 15 depicts these changes.

![Figure 15. Program Enrollments by Race/Ethnicity 2000, 2006, 2012](image-url)
As illustrated in Figure 16, the percentage of program completers who were white has decreased while the percentage of all minority groups has increased. In 2012 Hispanics represented 5.4% of all completers, African-Americans 1.6%, and Asians/Pacific Islanders 1.1%.

**Figure 16. Program Completers by Race/Ethnicity**


5. **Gender.**

Females enroll at higher rates than males in the college. In 2000 women comprised just over 59% of all enrollees, falling to 55% in 2006. Though by 2012, the percentage of female enrollees had increased to 62.6%. In 2000, 2 out of three completers were women. In 2006 women grew to over 68% of completers and by 2012 females comprised almost 63% of all completers.

6. **Students with Disabilities.**

The percentage of enrolled individuals reporting a disability at the time of enrollment increased from 2.1% in 2000 to 2.5% in 2006 before falling back to 2.1% in 2012. The percentage of completers reporting a disability also increased in 2006, going from 2.1% in 2000 to 3.3% in 2006 before falling to 2% in 2012.
7. **Highest Grade Completed at Enrollment.**

For enrollees for whom a specific level of education was indicated, the percentage with a post-secondary credential (i.e., associate degree, master's degree, doctorate degree, certificate, or first professional degree) increased from 25.1% in 2000 to 38.2% in 2006 then declined back to 31.2% in 2012. Enrollees with only a high school diploma comprised 66% of enrollments in 2012. Figure 17 illustrates the percentage of enrollees by highest grade completed.

![Figure 17. Program Enrollments by Highest Grade Completed at Enrollment 2000, 2006, 2012](image-url)
Completers with a post-secondary credential increased for all completers from 22.8% in 2000 to 44.1% in 2006. By 2012 the percentage had declined to 34.7%. As shown in Figure 18, completers with only a high school diploma at enrollment went from 66.3% to 46.3% to 61.6% for the period 2000, 2006 and 2012.

**Figure 18. Program Completers by Highest Grade Completed at Enrollment**

8. **Residence.**

As shown in Figure 19, when comparing program enrollments by residence, the vast majority of students resided in-district at the time of enrollment (96.5% in 2000, 90.4% in 2006, and 94% in 2012). The percentage of students from out-of-district (but in Illinois) grew from 2000 (3.3%) to 2006 (9.3%) then declined to 5.8% in 2012.

![Figure 19. Program Enrollments by Residency at Enrollment 2000, 2006, 2012](image-url)
Figure 20 shows program completers by residency at enrollment. Students residing in-district represented 97.5% of all completers in 2000, 95.9% in 2006, and 94.5% in 2012. Out-of-district completers represent a small percentage of the total but increased steadily over this period: 2.5% in 2000, 4.1% in 2006, and 5.4% in 2012.
9. **Student Intent.**

Preparing for college transfer was the intent of the largest percentage of enrollees in 2000, but declined from 42.2% in 2000 to 25.6% in 2012. The percentage of students enrolling for personal interest grew strongly, from 12.8% in 2000 to 29.6% in 2006 to 45.5% in 2012. In 2012, students preparing for a job after school made up almost one quarter of enrollees. Figure 21 presents student intent data for individuals enrolled in 2000, 2006 and 2012.

![Figure 21. Program Enrollments by Student Intent at Enrollment
2000, 2006, 2012](image-url)
Completions were highest in 2000 for students who were preparing for college transfer (53.7%) followed by students preparing for a job after community college (31.3%). As evident in Figure 22, these percentages moved in different directions by 2012. College transfers fell to 39.1% and students preparing for jobs increased to 43.5% of all completers.

Figure 22. Program Completers by Student Intent at Enrollment
10. **Educational Objective.**

As illustrated in Figure 23, the percentage of enrollees who were not pursuing a certificate or associate degree increased from 44.7% in 2000 to 70.5% in 2012. A steady decrease occurred from 2000 to 2012 for students enrolling to complete an associate degree, from 42.6% to 25.1%.

![Figure 23. Program Enrollments by Student Objective at Enrollment 2000, 2006, 2012](image)

32
As shown in Figure 24, students pursuing an associate degree made up the largest percentage of total completers in 2000 and 2006. After dropping from 2000 to 2006, this figure decreased significantly in 2012. In 2012, students that had enrolled without the intent to pursue a degree or certificate had grown to the largest group of completers.

**Figure 24. Program Completers by Student Objective at Enrollment**
**2000, 2006, 2012**
11. Program Classification.

Between 2000 and 2012 the top programs in terms of total overall enrollments have remained baccalaureate/transfer and occupational/technical instruction. These two programs represented almost 90% of all enrollments in 2012. Enrollees in vocational skills programs fell sharply as a percentage of the total between 2006 and 2012. Figure 25 illustrates these trends.

Figure 25. Program Enrollments by Program Classification Structure at Enrollment 2000, 2006, 2012
As evident in Figure 26, occupational and technical instruction was selected by the majority of program completers, growing to 73.9% of completers in 2012. The second highest percentage of program completers was in baccalaureate/transfer programs, but this number declined from 44.8% in 2000 to 23.3% in 2012. These two programs account for about 97% of all completers.

**Figure 26. Program Completers by Program Classification Structure at Enrollment 2000, 2006, 2012**

12. **Instructional Program.**

Using the national CIP (Classification of Instructional Programs) typology at the two-digit level, students enrolling in the college may select from 35 programs of instruction. Overall, the general pattern of enrollments remained stable from 2000 to 2012. Five broad CIPs stand out as representing about 90% of enrollments in all three years evaluated:

- Liberal Arts and Sciences, General Studies and Humanities
- Multi/Interdisciplinary Studies
- Health Professions and Related Sciences
- Basic Skills
- Business Management and Administrative Services
As portrayed in Figure 27, the most significant increases were in the percentage of students enrolling in Liberal Arts and Sciences, General Studies and Humanities (22% to 31.1%) and Health-related professions (7.9% to 18.1%). There were declines in Basic Skills (21.6% in 2000 to 12% in 2012) and in Business-related (9.2% to 4.1%) enrollments.

Figure 27. Program Enrollments by Classification of Instructional Program at Enrollment 2000, 2006, 2012

Completer data reveal that Precision Production Trades replaced Basic Skills in the top five CIPs. Multi/Interdisciplinary Studies had the largest percentage of completers in 2000 at 25.2% but was eclipsed by Health Professions and Related Sciences in 2012 at 43.6%. Liberal Arts and Sciences programs saw a decrease from 20.2% to 8.2% and Precision Production Trades increased from 0.9% to 6.4% of all completers in 2012. Figure 28 displays these data.

Veteran enrollment at the college is generally declining as a percentage of enrollment. In 2000, 120 students identified themselves as veterans – about 2.8% of total enrollees. This number fell slightly to 2.7%, but was made up of a larger absolute number of veterans (155) in 2006, and fell again by 2012, when 100 veterans made up 2.3% of total enrollment.

Veterans make up a larger percentage of completers. In 2000, 3.1% of completers (10) reported veteran status. Veterans made up 5.4% of 2006 completers (21) and 3.4% of 2012 completers (24).


In 2006, 559 students took at least one online course for credit. That was 9.9% of the total annual headcount. Over the next six years, online students grew strongly. By 2012, 1,021 students took at least one online class for credit, about 23.8% of total students.
15. Student Level Status.

Dual credit students are high school students that are receiving both high school and college credit for courses they complete at a community college. Dual enrollment students are high school students that receive college credit but not high school credit for courses they complete. Dual enrollment students made up less than 1% of enrollees in 2006 and 2012 (Figure 29). Freshmen made up the largest group of community college enrollees, and this group grew between 2006 and 2012. Sophomores stayed relatively stable as a portion of total enrollment between 2006 and 2012 (data were not collected in 2000). Dual credit enrollments were only tracked in more recent years so there is not an earlier year to compare this to. These students made up almost 4% percent of enrollments in 2012.

Figure 29. Program Enrollments by Student Level 2006 and 2012
Sophomores made up 56.6% of completers in 2012 (Figure 30). Dual enrollment students made up less than 1% of completers in 2006 and 2012. Dual credit students made up about 1.7% of completers in 2012.

Figure 30. Program Completers by Student Level
2006 and 2012
DATA LIMITATIONS AND POTENTIAL FUTURE ENHANCEMENTS

Throughout the study, the source of community college student employment and earnings data is the Unemployment Insurance (UI) wage record data reported by Illinois employers for each of their employees. UI wage record data are collected on a quarterly basis by the Illinois Department of Employment Security (IDES). While the matching of ICCB student records and IDES UI wage record data grounds the analysis in empirical evidence it also provides some limitations. Several categories of workers are not included in the UI dataset used for this analysis.

Employees not included in the UI dataset include self-employed individuals, agricultural workers on small farms, railroad workers, and federal workers. The last group, federal workers, is likely the most significant exclusion from the data. Statewide, federal workers make up about 1.5% of total employment. However, the percentage is significantly higher in some districts.

Individual earnings are reported based on the location of the employer. Thus, workers earning income in other states are not reported to the Illinois UI system, even if the worker resides in Illinois. This has the potential to impact the earnings outcomes for individual districts along the border. This impact is likely significantly more important in border districts adjacent to major out of state employment centers such as St. Louis, MO, Davenport/Bettendorf, IA, Kenosha/Racine, WI, and Terre Haute, IN.

These limitations have the potential of skewing the earnings outcomes. If a student was employed in Illinois prior to entering the community college system, but became employed in another state (or in one of the excluded employment categories), the data would show that they had no post-completion earnings. A worker in this situation may be counted as having a negative pre to post completion earnings gain when in fact they may have experienced a significant earnings increase.

Additionally, wage records were only supplied by IDES for individuals who had attended an Illinois community college. This limited the analysis to a comparison of individual earnings before entering a college and after completions. A preferred approach would have been to compare earnings outcomes of college attendees to similar individuals that had not attended a community college. However, the data were not available to perform this analysis.

Finally, the approach employed to analyze student outcomes also has limitations. Earnings gains were calculated by comparing an individual’s earnings in the four quarters prior to earnings their first community college credits to their earnings in the four quarters after completion. Students that were in high school prior to entering a college (or even as they entered a college) would have limited earning potential prior to entrance. Likewise, students
that enrolled in a four year college after graduation would have limited earnings potential in the year immediately following completion. Data were not available to identify students that transferred to another school after completing a program.

The next iteration of the Economic Impact Study will look to utilize additional data sources to enhance the study. IDES currently participates as a member of the Wage Record Interchange System (WRIS). WRIS facilitates the exchange of wage data among participating states for the purpose of assessing and reporting on state and local employment and training performance. If given permission to access WRIS data, ICCB and NIU CGS could more effectively track Illinois community college student employment in border states. The use of National Student Clearinghouse (NSC) data will also be investigated by ICCB and NIU CGS. NSC is the nation’s trusted source for student-level enrollment and degree verification. By matching ICCB student records to NCS student-level data, students continuing to persist in higher education after exiting an Illinois community college (such as baccalaureate/transfer students) could be excluded from certain economic student outcomes.
GLOSSARY

Completer. A student who has completed a degree or certificate program of study.

Direct Impacts (Direct Effect). The set of expenditures (college purchases and payrolls) or employment applied to the economic model for impact analysis.

Enrollments. Students who took one or more courses in a given year.

Exiter. A student that exits the community college system. Can be a completer or non-completer.

Indirect Impact (Indirect Effect). The impacts derived as additional effects caused by industries purchasing from other industries. In the case of community colleges, these might occur through local purchases of goods such as office supplies and services such as consulting or auditing services.

Induced Impacts (Indirect Effect). The impacts derived from college employees spending their income in the local economy. For the purposes of this report, induced impact are added to indirect impacts and reported as a single figure labeled indirect impacts.

Internal Rate of Return (IRR). The average annual return earned through the life of an investment. (Source: BusinessDictionary.com)

Net Present Value (NPV). The difference between the present value of the future cash flows from an investment and the amount of investment. Present value of the expected cash flows is computed by discounting them at the required rate of return. (Source: BusinessDictionary.com)

Net price of attending school. Average net price is generated by subtracting the average amount of federal, state/local government, or institutional grant or scholarship aid from the total cost of attendance. Total cost of attendance is the sum of published tuition and required fees (lower of in-district or in-state), books and supplies, and the weighted average for room and board and other expenses. (Source: College Navigator, National Center for Education Statistics)

Non-completer. A student who exits the community college system without completing a degree or certificate program of study.

Total Impacts. The sum of the direct, indirect and induced impacts.

Value added. Gross value added is the value of output less the value of intermediate consumption; it is a measure of the contribution to GDP made by an individual producer, industry or sector. It equals gross output (sales or receipts and other operating income, plus inventory change) minus intermediate inputs (consumption of goods and services purchased from other industries or imported). Value added consists of compensation of employees, taxes on production and imports less subsidies, and gross operating surplus (profits). (Source: IMPLAN)
DATA SOURCES


Illinois Community College Board Centralized Data System.

- ICCB Annual Enrollment and Completion (A1) Data Records
- ICCB Faculty, Staff and Salary (C1/C2) Data Records
- ICCB College Financial Submissions

IMPLAN Economic Impact Modeling System (Input-Output)

National Center for Education Statistics. Integrated Postsecondary Education Data System (IPEDS).