

### **Foreward**

The Office of Research has examined numerous state and national data bases, examined results of past research studies conducted by or for Harper, and conducted personal interviews. The result of this effort is the first iteration of an environmental scan about the region served by the College. Findings were categorized into six categories: economic, educational, demographic, political, social, and technology. The categories were selected after examining several reports of environmental scans from organizations in both educational and non-educational environments. It should be noted that the categories are not mutually exclusive. For example, the current budget crisis facing Illinois has implications in the economic, education, political, and social categories.

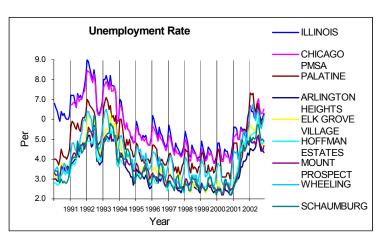
The scope is broad-based and where possible includes trends. Such broad-based forecasting may introduce some inaccuracies due to unquantifiable factors. Presently, the greatest of these are political factors. The impact of the change of party control at both the State and Federal levels and ramifications of on-going conflict in Iraq can only be guessed at. However, the data reported is from reliable sources and accurately reflects the Harper district.

The report is organized in two sections. Section I summarizes the results for each category. The summary section uses bullets to identify each major result and each result includes a page reference in Section II that provides a more detailed explanation. Although Section I does include graphs, Section II provides additional graphs to further illustrate specific points.

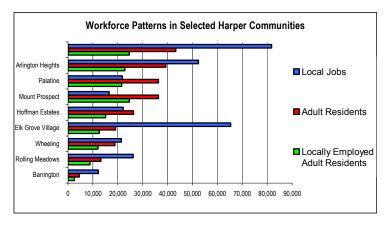
	Section I	
Office of Research	1	June 26, 2003

### **Economic**

- ★ The current economic downturn continues to linger as the "War on Terror," revelation of corporate accounting scandals, and the dot-com crash continue to impact global, national, and local economies. (Page 11)
- ★ Inflation continues to remain low and there are no signs of a change in the short term. Illinois existing housing sales increased by 2.4% in 2002 according to the National Association of Realtors. They anticipate that this level of growth will remain stable through 2003. (Page 11)
- Unemployment in municipalities most within the Harper district is below both the Illinois and Chicago MSA averages. However, a return to the record low unemployment of the 1990's is not foreseen bv economists in the near term future. (Page 11)



- ★ A disproportionate number of Harper residents are professionals who do not work within the Harper district. (Page 12)
- ★ More jobs exist within the Harper district than potential employees. (Page 12)

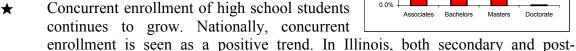


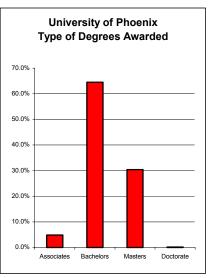
- ★ Businesses located within the Harper district largely employ non-residents. (Page 13)
- ★ The recent economic downturn has caused many area employers to reduce expenditures on employee training. Programs less impacted by this trend include ESL, Command Spanish, and computer training. (Page 13)

*	Employment in computer and health-related fields will grow sharply, pushing demand for training and education in these areas. (Page 13)

### **Educational**

- ★ The public increasingly sees education as a competitive commodity and mature students tend to evaluate continuing education based on its economic impact on their lives. (Page 15)
- ★ There exists a growing trend nationally and at the state level towards outcomebased education. Recent research points to a connection between the standardization of courses across institutions of higher education and higher rates of enrollment and matriculation. However, questions have been raised about the value of outcome-based professional programs such as MBAs. The long-term value of outcome-based programs remains uncertain. (Page 15)
- ★ Performance-based measurement's impact on community colleges through its potential use for ranking such institutions is unknown. (Page 15)
- Reporting and information management systems are being recognized as critical tools for institutions of higher education. Such systems are frequently credited with for-profit institutions' success in enrollment and retention. (Page 15)
- ★ Clearly defined courses of study for degree and certificate programs improve enrollment and retention. (Page 16)
- ★ Successful distance learning courses combine lecture and reading elements delivered individually through a distance learning option with practicums of hands-on "lab" work or group projects in a classroom environment. Dedicated students tend to be more successful with this type of program. (Page 16)
- For-profit institutions direct are not community college competitors; rather they interested students in pursuing baccalaureate and professional masters programs. There exist cooperative opportunities for community colleges in "relieving them of the burden of general education." (Page 16)
- ★ Bachelor's degrees are becoming the standard for entry-level employment rather than the high school diploma. (Page 17)



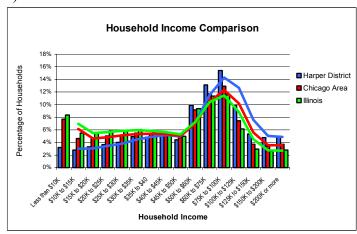


secondary institutions have embraced concurrent enrollment. However, given the state's economic hardship, there exists the potential for conflict over funding. (Page 17)

- ★ A recent national study of community college students has identified the following risk factors for non-matriculation
  - > Academic unpreparedness
  - > Being a single parent
  - > Being financially independent
  - > Caring for children at home
  - > Working more than 30 hours per week
  - > Being a first-generation college student
  - > Being a part-time student
  - > Identifying the cost of college as a significant issue (Page 18)
- ★ A national survey notes that 51% of community college students work more than 20 hours per week. New students at Harper have been working more hours, though the recent economic downturn impacted 2001 student employment patterns. (Page 18)
- ★ Economic stress and higher employer educational requirements are compelling high school graduates, who would directly enter the workforce previously, to enter higher education. These students are frequently less well prepared for college and, in part, drive the increasing demand for developmental courses, tutoring, and library services. (Page 18)
- ★ It is anticipated that the number of new faculty positions will increase by 20%-25% over the next ten years. (Page 18)

## **Demographic**

- ★ Municipalities that are served by Harper may be characterized as "mature," having less than 5% of their area available for development and being within 10% of the projected population cap. (Page 19)
- ★ The ethnographic change that is occurring within the Harper district is occurring because of shifting demographics rather than population growth. (Page 19)
- ★ Harper draws minorities out of proportion to its community demographics.
   (Page 20)
- ★ 10% of Harper district residents receive public aid and 4% of its residents live below the poverty line. (Page 12)
- ★ Median annual household income in the Harper district is \$67K as compared to the Chicago-area at \$42K and Illinois at \$39K. (Page 12)
- ★ Community awareness of Harper is high, but its perceived value varies greatly. Among the largest groups that utilize Harper are:



Medium-high income level, well-educated, professional households which:

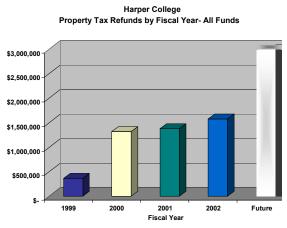
- > View Harper as a "Junior College" with weaker academic standards than those of a four-year college.
- > View Harper as an incidental educational resource and attendance is dependent upon scheduling convenience.
- > Use Harper as a supplementary education source for teen and young adult household members currently attending secondary and post-secondary schools elsewhere.

Low-medium income, non-professional households which:

- > View Harper in a positive academic light as an institution they might use
- > View Harper as their primary post-secondary educational resource.
- > View Harper as a cost effective stepping stone to higher education and young adult household members are encouraged to attend Harper. (Page 20)

### **Political**

- ★ Federal budget shortfalls will likely reduce federal support of state programs, exacerbating the state budget crisis. (Page 22)
- ★ Multiple potential and ongoing international conflicts will cause abrupt and unpredictable political and economic shifts. (Page 22)
- ★ Democrats in Illinois are likely to retain control of the state government in the short term due to residual voter distrust of the Republican Party. (Page 21)
- ★ Democratic Party leadership in Illinois government will have an unknown impact on higher education at both the state and federal levels. This may reduce both direct and indirect funding. (Page 21)
- ★ The state budget deficit of \$5 billion likely will lead to broad funding cuts including education. (Page 21)
- ★ Potential state grant reductions would restrict Harper's ability to cultivate private sector training partners. (Page 21)
- ★ The ongoing trend to demand performance measures and outcome-based curricula, in light of the current state budget crisis may impose new unfunded mandates upon Harper. (Page 21)
- ★ Local issues such as TIFs, property reassessment, and the impact of the economic downturn on local tax revenue probably will have a negative impact on Harper funding. (Page 21)



Harper College Office of Finance

### Social

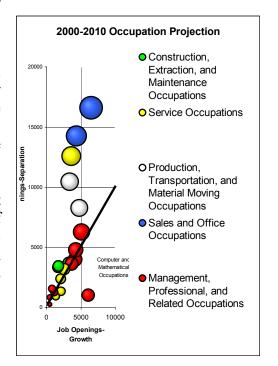
- ★ Time is becoming an increasingly precious commodity for Americans and students spend a growing percentage of their time working. (Page 23)
- ★ There exists an upward trend in disciplinary problems and academic dishonesty. (Page 23)
- ★ General societal tension and stress is rising due to the economic downturn, 9/11, the loss of the space shuttle, corporate accountability scandals, the war on terror, and the aftermath of conflicts in Iraq and Afghanistan. (Page 23)
- ★ The "War on Terrorism" is having a number of broad societal effects, at least for the short term that include:
  - > Increased demand for education programs supporting careers in public service (especially law enforcement, emergency services, and computer security).
  - > Increased grant opportunities within defense or homeland security areas.
  - > Reexamination of privacy and data security issues and implementation of stronger legislation such as HIPPA.
  - > Increased public stress.

The long-term impact of these changes is unclear at this time. (Page 24)

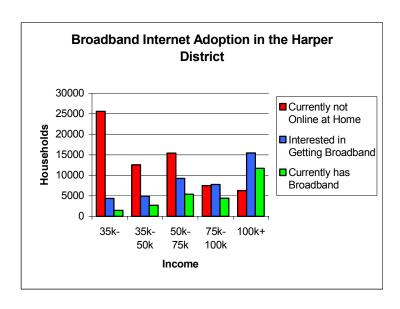
- ★ The aging population is creating growth in industries that serve the aging population, providing new opportunities to serve the educational needs of active seniors. (Page 24)
- ★ The aging population is creating new challenges in American society including financial stress upon retirement plans, employee retirement in bureaucratic environments, and an increased need for geriatric health care. (Page 24)

## **Technology**

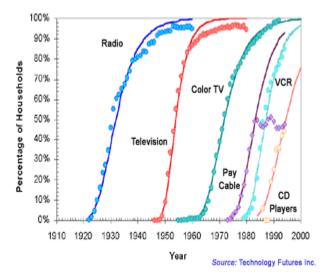
- ★ The four scientific fields that will have the greatest effect upon society in the next ten years are:
  - > Nanotechnology
  - > Information and decision systems
  - > Advanced robotics
  - > Biotechnology (Page 25)
- ★ Information and decision systems will continue to grow at the fastest pace. Their rapid development is being fueled by the government's war on terrorism, business's consumer-centric marketing efforts, and the needs of the innovation industry. (Page 25)
- ♦ Open source software is making significant inroads against the market share of proprietary software. This trend is likely to continue and accelerate as business and government adopt operating systems such as LINUX. (Page 26)



★ Increasing consumer adoption of broadband (bandwidth>200KBps) will improve the viability of computer-based learning techniques. (Page 27)



★ Technological agility is becoming an essential characteristic of successful organizations. (Page 27)



★ Institutions of higher education have attracted students, improved community relations, and provided new insights into the direction of technology through technology-related entrepreneurial endeavors. Such efforts also offer the opportunity to develop new revenue streams. (Page 28)

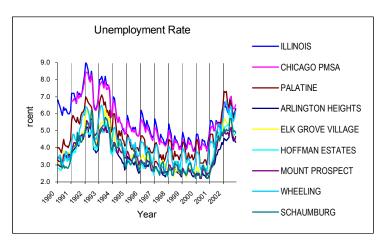
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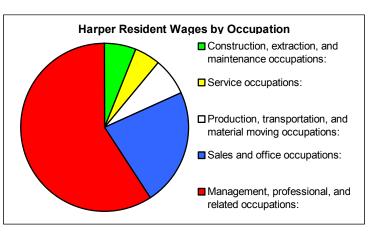
### **Economics**

The current economic downturn continues to linger as the "War on Terror," revelations of corporate accounting scandals, and the dot-com crash continue to impact global, national, and local economies. While the U.S. economy is slowly recovering from the current recession, the future is not yet assured. Consumer confidence indices and other economic indicators continue to be mixed as reported by the Federal Reserve, the Michigan Conference board, the Bureau of Labor statistics, and the Illinois Department of Employment Security. The Federal Reserve Board notes that inflation continues to remain low and there are no signs of a change in the short term. Illinois existing housing sales increased by 2.4% in 2002 according to the National Association of Realtors. They anticipate that this level of growth will remain stable through 2003. Many economists believe that the US is in a protracted, slow recovery. The US economy has shown itself more resilient than previously thought. Economists attribute this to a variety of causes including the country's early investment in technology, its industrial transition from manufacturing to services, and actions of the Federal Reserve Bank relative to interest rates. The result is that the current recession is

unlike previous economic downturns. With the prevailing perception of being in uncharted waters, business and consumers will continue to pursue a slow, cautious course.

Unemployment in most municipalities within the Harper district is below both the Illinois and Chicago MSA averages. However, a return the record unemployment of the 1990's is not foreseen by economists in the near term future.3 Despite presence the technology companies such as SBC, Motorola, and Lucent that were hard hit by the recession, the area's economy has been less affected than the state as a whole. Lower area unemployment may be





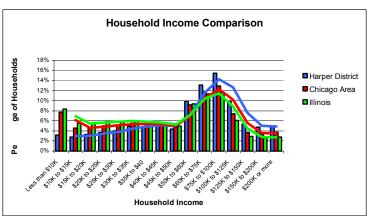
<sup>&</sup>lt;sup>1</sup> Testimony to the Joint Economic Committee, US Congress by Federal Reserve Chairman Alan Greenspan, 11/02

<sup>&</sup>lt;sup>2</sup> Federal Reserve Board, 11/02

<sup>&</sup>lt;sup>3</sup> Illinois Department of Employment Security, 2003

attributed to the area's unusual workforce composition. 4

disproportionate number of Harper residents are professionals who do not work within the Harper **district.** This professional population is responsible for both the area's unusual unemployment characteristics, as noted above and also the area's relative affluence. Median annual household

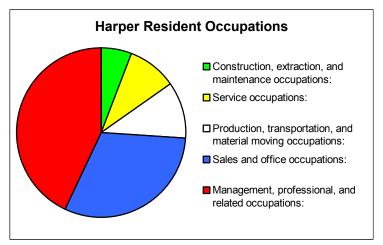


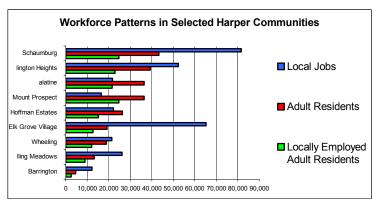
income in the Harper district is \$67K as compared to the Chicago-area at \$42K and Illinois at \$39K. Moreover, 10% of Harper district residents receive public aid and only 4% of its residents live below the poverty line.<sup>5</sup>

Additionally, it seems that a majority of Harper district skilled professionals

commute to jobs outside the Harper district. Despite the large professional population and the concentration of professional and technical employers in the Harper District, local businesses are unable to fully support this resource.<sup>6</sup>

There exist more jobs within the Harper district than potential employees. Census and Bureau of Labor statistics show that in most Harper communities exist more local jobs than employees. potential Moreover, 82% of the Harper district residents commute out of their city of residence and 60% of the Harper district residents





<sup>&</sup>lt;sup>4</sup> National Bureau of Economic Research, 2002

<sup>&</sup>lt;sup>5</sup> US Census 2000

<sup>&</sup>lt;sup>6</sup> US Census 2000

commute at least one half hour to work. Many of these commuters are likely to be working outside the Harper district. Given the relative affluence of the Harper district and its concentration of professionals, it may be concluded that many of these unfilled positions are unsuitable for the latter.

Thus, **businesses located within the Harper district largely employ non-residents.** Frequently, these non-residents are employed in semi-skilled jobs and trades serving the needs of affluent Harper communities. This is a significant factor in the area's low unemployment also. Frequently such workers are first to be unemployed during economic downturns. Not being residents, they do not impact this area's unemployment. The middle of the economic spectrum and those people most impacted by the recession, are underrepresented in the Harper footprint. <sup>8</sup>

The recent economic downturn has caused many area employers to reduce expenditures on employee training. Programs less impacted by this trend include ESL, Command Spanish, and computer training. According to reports from Harper College Corporate Services and news journals, in this recession as in others, funding for employee training is one of the first items cut as companies reduce their expenditures. Nonetheless, as businesses continue to adopt quality-based management styles to meet the demands of their customers, training requirements will grow. In the current economic climate businesses are very deliberate about their training expenditures and focus on critical needs such as English, Spanish, and computer skills.

In contrast to the recent decline in enrollment numbers for computer-related classes, the 2000-2010 occupational projection strongly suggests that the current downturn in demand is temporary. Furthermore, healthcare occupations will continue to grow fueled by the aging population. Employment in computer and health-related fields will grow sharply, pushing demand for training and education in these areas.<sup>10</sup>

TOP 20 JOB TITLES BY PERCENT GROWTH 2000-2010 CHICAGO OCCUPATIONAL PROJECTIONS

JOB TITLE	PERCENT GROWTH	NEW JOB OPENINGS
Computer Software Engineers, Applications	91.74	13,820
Computer Support Specialists	78.82	13,159
Network and Computer Systems Administrators	76.39	6,037
Network Systems and Data Communications Analysts	73.59	2,488
Computer Software Engineers, Systems Software	71.16	4,177
Textile Bleaching and Dyeing Machine Operators and Tenders	67.12	198
Desktop Publishers	60.32	1,017
Database Administrators	59.19	2,567
Computer Systems Analysts	54.49	11,078

<sup>&</sup>lt;sup>7</sup> US Census 2000

<sup>10</sup> Bureau of Labor Statistics, 2002

<sup>&</sup>lt;sup>8</sup> US Census 2000

<sup>9</sup> National Bureau of Economic Research "Why Companies pay for College", 9/02

# TOP 20 JOB TITLES BY PERCENT GROWTH 2000-2010 CHICAGO OCCUPATIONAL PROJECTIONS continued

Medical Assistants	50.76	2,975
Social and Human Service Assistants	49.28	3,430
Personal and Home Care Aides	47.54	2,762
Audiologists	46.55	162
Medical Records and Health Information Technicians	44.43	1,858
Computer Specialists, All Other	44.36	3,800
Home Health Aides	43.83	3,495
Physician Assistants	43.34	179
Physical Therapist Aides	41.31	335
Security Guards	41.14	12,620
Physical Therapist Assistants	40.37	681

### **Educational**

Changes in education are varied, but all point to the conclusions that the public increasingly sees education as a competitive commodity and that mature students tend to evaluate continuing education based on its economic impact on their lives. <sup>11</sup>The success of for-profit institutions such as the University of Phoenix and DeVry are proofs-of-concept for this new conception of the student as consumer. The emergence of student-run websites such as www.ratemyprofessors.com that evaluate teaching staff is the latest manifestation of students "shopping" for classes. 12 State government in its own way has begun to examine higher education with a consumer's or at least a manager's eye also. There exists a growing trend nationally and at the state level towards outcome-based education. By implementing such standards, state governments believe that they can better evaluate and improve their educational efforts. <sup>14</sup> There exists early evidence that the state is justified in its conviction as a recent study by the National Center for Public Policy and Higher Education and the Institute for Higher Education Policy points to a connection between the standardization of courses across institutions of higher education and higher rates of enrollment and matriculation. However, questions have been raised about the value of outcomebased professional programs such as MBAs. 15 Critics have pointed out that many such programs are either too academic and thus hard to apply to real world situations, or are successful based on the networking opportunities the programs offer their students rather than on the programs' educational merits. The long-term value of outcome-based programs remains uncertain. Performance-based measurement's impact on community colleges, through its potential use to rank such institutions, is unknown.

One of the primary underlying causes for these changes is the success of for-profit institutions such as the University of Phoenix and DeVry. Many researchers have examined these organizations and have identified a number of key areas that allow them to excel. In large part, these institutional traits are transferable to the domain of public education. The three most frequently identified capabilities are reporting and information management, employer recruitment, and distance/convenience learning.

Reporting and information management systems are being recognized as critical tools for institutions of higher education. Such systems are frequently credited with for-profit institutions' success in enrollment and retention. Such management systems extend to the standardization of courses and curricula over disparate campuses. By implementing their operations as repeatable processes, these institutions are able to offer successful standardized curricula across their campuses, and

<sup>&</sup>lt;sup>11</sup> Purdue University Agricultural Communication, "So You Want to Have a Job in 2005? Bringing Extension Back from the Brink", 10/02.

<sup>&</sup>lt;sup>12</sup> National Lewis University Faculty Senate Minutes 10/18/00

<sup>&</sup>lt;sup>13</sup> Los Rios Community College District (Sacramento, CA) Environmental Scan, 2002

<sup>&</sup>lt;sup>14</sup> Community College Research Center, 2001-2 Seminar Series

<sup>&</sup>lt;sup>15</sup> Stanford Graduate School of Business, "The End of Business School? Less Success than Meets the Eye", Pfeffer/Fong

<sup>&</sup>lt;sup>16</sup> McHenry College, "Learning for Tomorrow", 1999

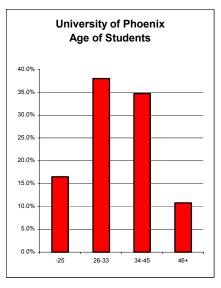
<sup>&</sup>lt;sup>17</sup> Community College Research Center, 2/03

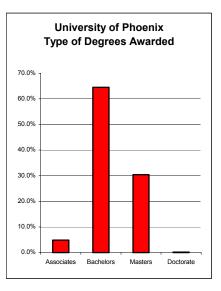
minimize the expenditure required for course design and updating. Furthermore, these schools closely track the progress of their students, faculty, and staff, before, during and after their experience. By benchmarking their operations, for-profit institutions are able to identify trends before they are at a decision point or crisis. Some of these institutions maintain an online "dashboard" of key metrics to promote institutional awareness of the organization. This attention to organization also improves enrollment and retention, as students are able to easily seek out clear and concise information on different programs with clearly defined course lists. Clearly defined courses of study for degree and certificate programs improve enrollment and retention.<sup>18</sup>

For-profit institutions also focus on interacting with employers. A full 60% of their students receive employer aid. The majority of this aid is directed towards students seeking professional degrees. These institutions have the luxury of specializing and "cherry-picking" their markets. Their programs are focused on serving the needs of a very specific group of students and employers who can pay the higher prices charged by such institutions and who have the maturity to undertake independent study. A list of educational providers that serve the community can be found on pages 29 - 42.

By extensively employing independent study and distance learning, these institutions have created convenience learning. Successful distance learning courses combine lecture and reading elements delivered individually through a distance learning option with practicums of hands-on "lab" work or group projects in a classroom environment.<sup>19</sup> Thus, forprofit institutions have been able to compress the duration of classes and the need for on-site class time. enhancing the convenience for their students. It is important to note that dedicated students tend to be more successful with this type of program. Forprofits institutions intentionally admit older students. The emphasis on actively meeting the requirements of the student is key to these institutions' retention and enrollment

For-profit institutions direct are not community college competitors; rather they seek students interested in pursuing baccalaureate and professional masters programs. There exist





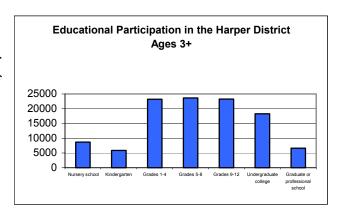
<sup>&</sup>lt;sup>18</sup> Nation Center for Public Policy and Higher Education, "State Policy and Community College-Baccalaureate Transfer", 8/2002

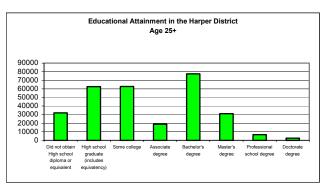
<sup>&</sup>lt;sup>19</sup> OCLC 2000 Environmental Scan

cooperative opportunities for community colleges in "relieving them of the burden of general education." While for-profit institutions have some impressive credits, they are also more expensive than their public counterparts. Moreover, it must be pointed out that these institutions exist to make money. Thus the majority of degrees awarded are Bachelors and Professional degrees. In the Chicago area, only 17% of the 2000 degrees awarded by DeVry in 2001 were associates degrees.

Illinois is encouraging the implementation of these traits through the Illinois Articulation Initiative and its mandate for outcome-based programs. This process effectively compels colleges to standardize and benchmark their curricula. Springfield is also supporting distance learning consortia and encouraging employer investment in employee education through grant programs. Outcome-based education is frequently championed as a way for the state to insure that it is receiving value for its allocation of funds in education, an especially important issue in light of the State's financial struggles.

The State is moving none too soon as events are also transforming the composition and volume of students entering institutions higher education. As the US economy and that of the Chicago area moves away from manufacturing towards information-based services, employers are seeking employees with advanced skill sets such as problem solving, data analysis, and critical thinking. Moreover, the area's highly educated workforce and the growing gap between wages for high school graduates and college graduates apply additional pressure upon individuals to pursue higher education. Thus, bachelor's degrees are becoming the standard for employment entry-level than the high school diploma. <sup>21</sup>





This, in turn is putting more pressure upon high school students to perform. The growing popularity of concurrent enrollment as an option for high school students is a testament to the importance, in both time and money, of getting a head start for college Concurrent enrollment of high school students continues to grow. Nationally, concurrent enrollment is seen as a positive trend.<sup>22</sup> In Illinois, both secondary and post-secondary institutions have embraced concurrent enrollment. However, in the

<sup>&</sup>lt;sup>20</sup> Community College Research Center, 4/02

<sup>&</sup>lt;sup>21</sup> Chicago State University, Strategic Plan 2002

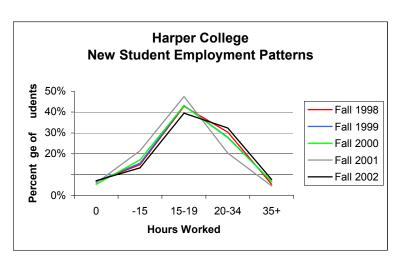
<sup>&</sup>lt;sup>22</sup> Community College Research Center, 3/03

current struggle brought on by the state's economic hardship, there exists the potential for conflict over funding.<sup>23</sup>

Not all students pursue proactive programs like concurrent enrollment. The open admissions policy of community colleges insures that many of their students are less well prepared for the rigors of collegiate work. According to the findings of the 2002 Community College Survey of Student Engagement (CCSSE)<sup>24</sup>, the following are key risk factors that threaten degree completion:

- Academic unpreparedness
- Being a single parent
- Being financially independent
- Caring for children at home
- Working more than 30 hours per week
- Being a first-generation college student
- Being a part-time student
- Identifying the cost of college as a significant issue

A national survev notes that 51% of community college students work more than 20 hours per week. New students at Harper have been working more hours, though economic the recent downturn impacted 2001 student employment patterns.<sup>25</sup> Indeed, economic stress and higher employer educational requirements are compelling high school graduates, who would directly



enter the workforce previously, to enter higher education. These students are frequently less well prepared for college and, in part, drive the increasing demand for developmental courses, tutoring, and library services.<sup>26</sup>

Finally, new data from the 2000-2010 occupational projections indicate substantial job growth in the Chicago area for faculty positions. It is anticipated that the number of new faculty positions will increase by 20%-25% over the next ten years. This will have a significant impact on hiring and retention in the faculty labor market.

<sup>&</sup>lt;sup>23</sup> American Association of Community Colleges, "The Open Door...assessing the promise and problems of dual enrollment", 5/02

<sup>&</sup>lt;sup>24</sup> CCSSE, "Engaging Community Colleges", 2002

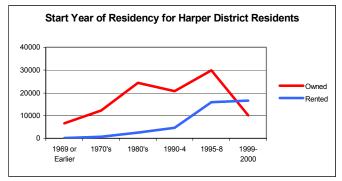
<sup>&</sup>lt;sup>25</sup> State PIRG Higher Education Project, "At What Cost? The Price that Working Students Pay for a College Education", 4/02

<sup>&</sup>lt;sup>26</sup> Community College Research Center, 1/03

## Demographic

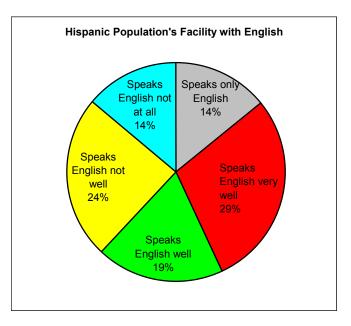
The geographical area served by Harper College is an area of extremes. While its per capita income is high, nearly 10% of the population receives public aid. Furthermore, the community possesses extremes of education with a professional degree being common among wealthier residents while poor residents may be seeking English language training. The municipalities that are served by Harper may be characterized as "mature," having less than 5% of their area available for development and being within 10% of the projected population cap. So while the Harper district is close to peaking in population, enrollment continues to climb driven by new educational demands from the extreme ends of the demographic spectrum.

Shifts in ethnography are driven by population change rather than population growth. As the municipalities served by Harper developed their respective areas in the 1990's, the availability of housing increased, as did its accompanying housing occupancy. With the end of the housing boom, due to the unavailability of developed and accuragely shares

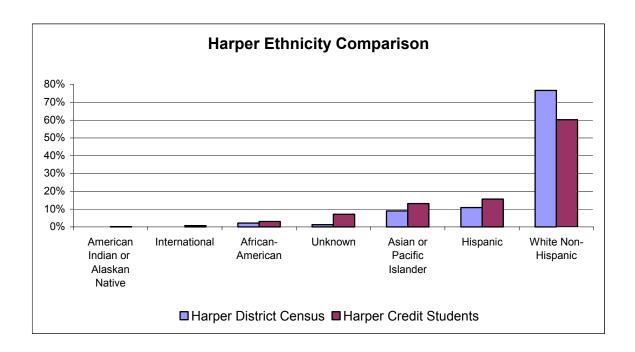


developable land, occupancy characteristics have shifted towards rental properties. Thus,

the ethnographic change that is occurring within the Harper district is occurring because of shifting demographics rather than population growth. This is unlikely change in to the foreseeable future as local planning managers have expressed their opinion that further development or redevelopment would prohibitively costly at the present time. The same is true for much of the unincorporated land within the Harper district that would require provision of basic services and utilities at a cost to the annexing municipality.



The ethnographic changes being caused by this shift are reflected in the region's growing minority population. Currently, **Harper draws minorities out of proportion to its community demographics.** 



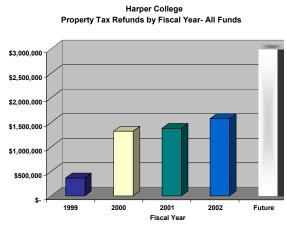
While community awareness of Harper is high, its perceived value varies greatly. Among the largest groups that utilize Harper are:

- Medium-high income level, well-educated, professional households which:
  - View Harper as a "Junior College" with weaker academic standards than those of a four-year college.
  - View Harper as an incidental educational resource. Adult household members' high education level limits for-credit choices. Attendance is highly dependent upon scheduling convenience due to these individuals managing full-time employment.
  - O Use Harper as a supplementary education source for teen and young adults household members concurrently attending secondary and post-secondary school elsewhere. For these college age individuals, Harper is not seen as a "valid" primary choice for such individuals. Fouryear colleges are primary choice. Attendance may be dependent on the schedules of the primary educational institution (after school or during summer break).
- Low-medium income, non-professional households:
  - View Harper in a positive academic light as an institution they might use.
  - View Harper as their primary post-secondary educational resource. Adult members of this group may have scheduling pressure due to full-time employment. Teens and young adults in this category may manifest similar problems due to concurrent part-time or full-time employment with their enrollment.
  - View Harper as a cost effective stepping stone to higher education. Young adult household members are encouraged to attend Harper.

### **Political**

Harper finds itself in very tumultuous times when it comes to the political scene. Previous Republican officials are seen as corrupt by the general public leading to the current dominance of Democrats in Illinois. Democrats in Illinois are likely to retain control of the state government in the short term due to residual voter distrust of the Republican Party.

At the local and state level, the strong shift of Illinois into the Democratic camp would normally be a positive event for higher education. Unfortunately this occurs at a time when there is a record budget shortfall and government is being compelled to raise fees and cut programs. Local issues such as TIFs, property reassessment, and the impact of the economic downturn on local tax revenue probably will have a negative impact on Harper funding.



Harper College Office of Finance

At the state level, the situation is also negative and uncertain. The Republican-led federal government would normally allocate fewer resources to the Democratically-led state of Illinois. This is offset by Illinois Representative Hastert's position as Speaker of the House. Thus, Democratic Party leadership in Illinois government will have an unknown impact on higher education at both the state and federal levels. This may reduce both direct and indirect funding.

The state budget deficit of \$5 billion will likely lead to broad funding cuts including education. Moreover, every funding request is scrutinized closely to insure its necessity, justification and effectiveness. Outcome-based curricula are an important weapon in higher education's arsenal to fight funding reductions by demonstrating success. However, the ongoing trend to demand performance measures and outcome-based curricula, in light of the current state budget crisis may impose new unfunded mandates upon Harper. The ramifications of these new policies are unknown and may come as an unwelcome surprise as faculty and staff may be unaware of the trend towards outcome-based curricula. Though Governor Blagojevich is on the record prior to his election as a strong supporter of the community college system, his ability to offer financial support in the current budget crisis may be quite limited. Potential state grant reductions would restrict Harper's ability to cultivate private sector training partners.

In 2002, while the Democrats seized victory in Springfield, the Republicans claimed victory in Washington DC. With the agenda impasse broken in the congress, the choice of which measures will be advanced is an open question. The administration is focusing on the war effort and the economy at present. Both topics present potential

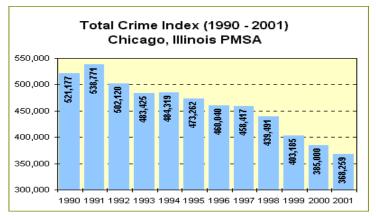
opportunities for Harper. New homeland defense programs and accompanying grants open the door to a variety of public service education programs including computer security, public health, and criminal justice. As the administration seeks to bolster the economy for the upcoming 2004 presidential election, funding for education and retraining may or may not be part of the economic incentive plan when it finally makes it out of congress. Furthermore, Representative Hastert's position as speaker of the house increases the likelihood that Illinois will receive some specific benefits. Federal budget shortfalls will likely reduce federal support of state programs, exacerbating the state budget crisis.

Adding to Illinois's woes is the federal government's budget and foreign policy problems. With a skyrocketing debt and forecasts for the debt to increase further due to the war on terrorism and ongoing presence in Iraq, the amount of funding that will be made available to states and municipalities will likely be reduced. Moreover, the long-term economic effects of the two wars are largely unknown. Further attacks upon western interests by terrorists are effectively *forces majeures*. The cost estimates vary widely as does the potential for loss of life. The government's perceived level of success or failure of its new proactive foreign policy could shift the balance of power at the federal level. **Multiple potential and ongoing international conflicts will cause abrupt and unpredictable political and economic shifts.** 

### Social

Social pressure and social change is an oft-discussed, multi-faceted topic. In relating these changes to Harper, there are a number of issues that directly relate to how Harper interacts within itself and with its community. First and foremost is the value of time. Time is becoming an increasingly precious commodity for Americans and students spend a growing percentage of their time working. Americans are spending more time working due to economic pressures and employer demands, leaving less time for other pursuits. Americans already take less vacation time than their counterparts in Europe. Spending this valuable asset to obtain education or training is a major sacrifice and likely spurred on by economic demands. Convenient class schedules, distance learning, and easy to understand program requirements and procedures are essential to minimizing the opportunity cost of choosing education.

Our society has increasingly pressured citizens to succeed and excel. Recent corporate scandals may indicate that this pressure is felt levels at of society. Increasingly, vocational success is connected with not just graduating from high school, but also holding a college degree. Individuals who might previously have ceased



State of Illinois

education following high school graduation are now choosing or feeling forced to choose further education in order to obtain gainful employment. The pressure to succeed has imposed additional strain upon students and may be a contributor to a rise in disciplinary problems. **There exists an upward trend in disciplinary problems and academic dishonesty.** A survey conducted in 1999 by the Center for Academic Integrity at Duke University found that more than 75% of college undergraduates students questioned admitted to cheating. While actual crime has been steadily decreasing in the Chicago area, reports of disciplinary problems and academic dishonesty are on the rise. The cause for this latter trend is likely due to a number of causes including actual academic dishonesty, growing vigilance on the part of instructors, and/or a greater ability to obtain, detect, and report plagiaristic text on the Internet.

The pressure to succeed in a competitive society is by no means the only source of stress in American society. General societal tension and stress is rising due to the economic downturn, 9/11, the loss of the space shuttle, corporate accountability scandals, the war on terror, and the aftermath of conflicts in Iraq and Afghanistan.

In particular, the "War on Terrorism" is having a number of broad societal effects, at least for the short term. Specifically:

- Increased demand for education programs supporting careers in public service (especially law enforcement, emergency services, and computer security<sup>27</sup>).
- Increased grant opportunities within defense or homeland security areas.
- Reexamination of privacy and data security issues and implementation of stronger legislation such as HIPPA.
- Increased public stress.

The long-term impact of these changes is unclear at this time.

Finally, the shift in aging demographics creates new social problems and opportunities. Improved health care and biomedical technology has led to an increase in life span and a greater quality of life for the aged. This shift has led to a surge to the workforce as the unwillingly retired seek to remain active. For many, this return to work requires education to make a career change. Another social change or rather ramification is the growing acceptance and working knowledge of technology. An ever-growing proportion of the population has grown up with computers as an essential part of their lives. Training and education for these individuals will become more focused and specialized for specific certifications and more complex software packages. The aging population is creating growth in industries that serve the aging population, providing new opportunities to serve the educational needs of active seniors. However, the aging population is creating new challenges in American society including financial stress upon retirement plans, employee retirement in bureaucratic environments, and an increased need for geriatric health care.

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<sup>&</sup>lt;sup>27</sup> Gartner Group, 11/02

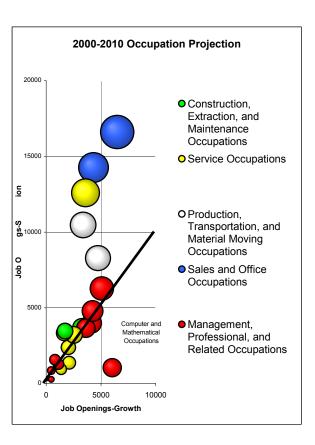
## **Technology**

The direction of technological development in the near term is remarkably clear despite the acceleration caused by advances in information technology. Key insights into coming advances may be gleaned from a perusal of US Government's defense research efforts. Bearing in mind that many inventions including the Internet, composite materials, and digital photography can trace their origins to these efforts, we believe that the four scientific fields that will have the greatest effect upon society in the next ten years are:

- Information and decision systems
- Advanced robotics
- Nanotechnology
- Biotechnology

These areas have potentially broad ramifications across the spectrum in their civilian applications.

Information decision and systems encompass a broad range of computer technologies for generally assisting people with sorting data and identifying what is important. Included in this category are such things as handheld two-way language translators, distant biometric identification, and quantum computers. In general, these technologies may allow us to tackle problems of evergreater complexity while potentially reducing privacy and eroding the barriers separating cultures and people. Information and decision systems will continue to grow at the fastest pace. Their rapid development is being fueled by the government's war on terrorism, business's efforts streamline processes, and the needs of innovation industry. fundamental educational requirements for people in this field are mathematics and computer programming as all of these programs are based on algorithmic logic.



Advanced robotics have long held an important commercial role in industry, especially in manufacturing. However these machines are driven by fairly simple programs to perform repetitive tasks. The next generation of robots envisioned will be semi-autonomous and able to adaptively deal with a broader spectrum of situations. Tasks such as mine detection and clearing and intelligence gathering are projected uses

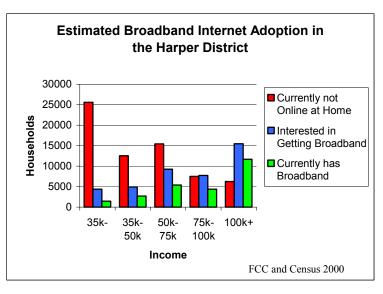
for this family of technologies. Commercially, such technologies may be exploited to explore for natural resources in hazardous conditions or the automation of transportation vehicles. The need for computer scientists and engineers will increase as the complexity of these robots increases.

**Nanotechnology** is a field of endeavor largely unknown to the layman. It involves the fabrication of materials and machines at the molecular level. Static outputs include materials with unusual properties such as high thermal conductivity and stain resistant fabrics. More complex endeavors include such things as molecular engines. This field of endeavor is only now emerging and the future requirements are largely unknown. However physical scientists such as chemists and physicists are most involved with this research.

**Biotechnology** may be the area that will impact civilian life most strongly. Today, biotechnology is usually considered only in the fields of medicine and agriculture. However, the impact of biotechnology is much more far-reaching. One of these new areas is combining biologic processes with integrated circuits to create chemical detectors for use in detecting the presence of contaminants. Other advanced uses include such things as smart clothing that would be able to provide medical information about the wearer to doctors and the creation of biological computers that offer new ways to analyze information. Biochemistry and laboratory training are key for individuals seeking opportunities in this field.

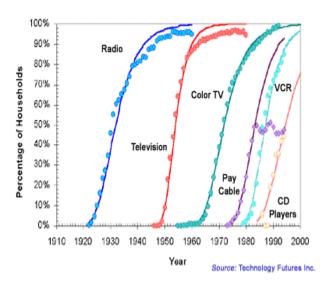
Two technologies that are presently sweeping through the private sector and which Harper has deployed are the open source software and the wireless networks. The former is best characterized by the LINUX operating system. Increasingly both government and enterprise-class businesses are adopting LINUX. Unlike proprietary software such as Microsoft Windows, access to the core programming or source code is unrestricted with the caveat that modifications should be published for the benefit of other users. Open source advocates point out that this arrangement creates an environment of active peer review that encourages excellence. Economically, open source software itself is free. Costs are incurred in the customization and maintenance of the software. Overall, it appears that these arguments are increasingly compelling as more companies and governments implement open source software. Open source software is making significant inroads against the market share of proprietary software. This trend is likely to continue and accelerate as business and government adopt operating systems such as LINUX.

Wireless networking, most frequently implemented under the 802.11 protocol or the "Wi-Fi" moniker is an inexpensive increasingly technology that allows a variety of properly equipped electronic devices communicate when in line of sight of each other. Today, this technology is standard equipment for most notebook computers. Because of its ease of deployment and low cost, this technology is being used



by business, government, and academia as well as by private citizens. This technology will supplement and augment the planned improvement of cell phone technology "3G." Because of its ease of use and academic deployment, it is likely that it will gain broad public adoption within 3-5 years. This process has already started with the sprouting up of so-called "hot spots" in coffee shops and airports. This technology provides an additional layer of communication for the technologically literate and will improve information access for its users. This technology and others will accelerate the consumer adoption rate of high-speed Internet access. Increasing consumer adoption of broadband (bandwidth>200KBps) will improve the viability of computer-based learning techniques by achieving a critical mass of consumers.<sup>28</sup>

Technological innovation is occurring at a rapidly increasing pace. Moreover, the rate at which consumers adopt new technologies is also accelerating. In the dot.com boom of the 1990's, companies able to adapt to changing conditions were most likely to succeed. In practice, large companies such as IBM and structured themselves multiple semi-autonomous operating units. These units possessed greater flexibility and by eliminating levels in the decision making process, were able to adapt and implement initiatives in a



shorter time span. The ability to adapt to changes in technology or "technological agility" is becoming an essential characteristic of successful organizations.<sup>29</sup>

<sup>&</sup>lt;sup>28</sup> National Science Foundation Annual Report 2001

<sup>&</sup>lt;sup>29</sup> OCLC 2002 Environmental Scan

One trend that has been hurt by the economic downturn is the concept of the academic incubator. Today many universities earn royalties that augment their income through the business endeavors and inventions of academically inspired companies via patents and copyrights. Moreover, these efforts also serve to improve the initiating institution's image as a center of academic excellence. Once the current recession ends, post-secondary institutions will renew these efforts. Institutions of higher education have attracted students, improved community relations, and provided new insights into the direction of technology through technology-related entrepreneurial endeavors.<sup>30</sup> Such efforts also offer the opportunity to develop new revenue streams.31

Siemens White Paper, "Trends in Higher Education", 4/02
 Community College Research Center, 1/00

#### **Local Education Providers**

The following table is a detailed listing of local companies and institutions that provide educational services through the Illinois Workforce Development Program. These companies and institutions may be construed as Harper College's "educational competitors." The private companies listed below are not necessarily price competitive with Harper. However, they are very aggressive in marketing themselves to individuals seeking training or retraining, and are very effective at tailoring programs to take advantage of state subsidization programs such as Workforce Development.

Similarly, it is worth noting that many traditional educational institutions have been able to certify whole degree programs under workforce development (WIA). Presently, the typical WIA voucher amount is \$3000. Thus, WIA is subsidizing approximately \$50 per credit hour in a typical 60-hour associates degree program. This is likely an important factor in evaluating the educational choices made by the unemployed.

Finally, it is important to note that the vast majority of providers are offering information technology related education and certification. These mostly private, forprofit providers emerged during the tech boom of the 1990's, catering to businesses' demand for employees with technology training/certification. While Illinois projects that demand for these skills will continue to grow over the next ten years, many of these companies may be unable to weather the present economic downturn due to decreasing consumer demand for their services because of financial hardship. Many technology certification courses cost in excess of \$3000; exceeding WIA subsidy levels for the unemployed learner. For the employed learner, difficult economic times may make them less likely to invest in expensive educational programs.

WIA Certified Training Programs within 15 miles of 60067

Provider Name	Course of Study	Address
1st Choice, Intl., Inc.	Professional Massage Therapy Program	1245 Milwaukee Avenue,
		Suite 301
		Glenview, IL
		60025-0000
Absolute Solutions, Inc.	A+ Technician	201 East Army Trail Road
	ASI Office Administrator	Bloomingdale, IL
	MCSE (Microsoft Certified Systems Engineer) Windows 2000	60108-2150
	MCSA (Microsoft Certified Systems	203 North LaSalle (Suite
	Administrator)	M18)
	M.O.U.S. (15 modules) w/ 4 exam package	Chicago, IL
	Microsoft Certified Application Developer (MCAD).NET Training	60106-
	Microsoft Office Specialist- no exams	
	Microsoft Office Specialist- Expert Certification w/	
	MOS Master Certification w/ 5 Exams+ Project Management	
	CISSP and CCNA with 2 exam voucher package	
	Microsoft Office Specialist- Core Certification w/ 3	
	Oracle Developer w/5 exams package	
	Microsoft Office Specialist-Master Certification w/	
	Office Administrator Assistant	

Provider Name	Course of Study	Address
Absolute Solutions, Inc. continued	Project Management	7 Iddi ess
,	Programming Cobol under Microsoft .NET	
	CIW (Certified Internet Webmaster)	
	MCSD (Microsoft Certified Systems Developer) CCNA (Cisco Certified Networking Associate)	
	MCDBA (Database Administrator)	
	Unlimited Online Technical Training with	
	Mentoring	
	CISSP/exam (certification for info system security	
	pro)	
	Java 2 Programmer MOS- Master Certification w/ 5 Exams +	
	CompTIA A+	
	A+, NET+, MCSA, MCSDBA w/8 exams package	
	A+, Net+, MCSA w/ 7 exam package	
	A+, Net+, MCSA only	
	Microsoft Certified Application Developer	
	(MCAD).NET_COM+ A+	
	Oracle Database Administrator w/5 exams package	
	A+, NET+, MCSA, MCSDBA w/8 exams package	
A 1 00D C : A .	Network Plus	1740 W Al D.1
Academy Of Dog Grooming Arts Ltd	Professional Pet Grooming	1742 West Algonquin Rd. Arlington Heights, IL
Eta		60005-4018
ADECCO	Certified Loan Officer/Mortgage Processor	1200 East Algonquin Road
		Elk Grove, IL
Advanced Computer Training	Advanced Software and Performance Testing for	60007-4712 4208 Commercial Way
5	Web Application	Glenview, IL
	MCSE Windows 2000	60025-3573
	Software Quality Assurance and Manual Testing	
	Web Development for Programmers using Microsoft Platform	
	Advanced Java Programming	
	SQL Server Database Administration	
	Introduction to Computers and Office	
	Technologies Performance Testing and Analysis	
	Web Development using MS and Sun Platforms for	
	Programmers	
	E-Commerce Multiplatform Solutions	
	Advanced QA and Software Testing Introduction to Web Programming	
	Extensive Markup Language	
	Introduction to Java Programming	
	E-Commerce Multiplatform Solutions for	
	Programmers Advanced QA and Software Testing for QA	
	Professionals	
	Web Development for OOL Programmers	
	Enterprise Java Programming	
	Test Automation Expert Level Certification Track Intrusion Detection System Analysis	
	Relational Databases and MS SQL Server for IT	
	Professionals	
	Introduction To Computer Technologies and MS	
	Certified Office Microsoft Certified Office Specialist	
	E-Commerce/Web Development-Microsoft and	
	Sun Platform	
	Relational Databases for IT professionals	
	Web and Application Development with WebSphere	
	E-Commerce/Web Development-Multiplatform	
	Solutions Plus	
	Web Develop. Using MS Sun Platforms for Programmers	
	QA and Automated Testing	
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Office of Research 31 June 26, 2003

Advanced Computer Training continued  E-COMMERCE/WEB DEVELOPMENT - EXPERT LEVEL E-Commerce/Web Development-Open Architecture Solutions Plus Relational Databases Administration for Non-programmers Web Develop, Using MS. Net Sun Platforms for Non-programmers Web Develop, Using MS. Net Sun Platforms for programmers E-Commerce/Web Development-Multiplatform Solutions Oracle Development and Administration for Programmers Web Develop, Using MS. Net Platform and XML for Programmers Web Develop, Using MS. Net Platform and XML for Programmers Web Development for Non-Programmers Microsoft Networking and Security Networking and Internetworking with Cisco Oracle Development for Non-Programmers Oracle Development for Programmers Oracle Development for Pro	Provider Name	Course of Study	Address
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E-Commerce Series - IBM WebSphere Server			
Development Certificate		Development Certificate	

Provider Name	Course of Study	Address
Advanced Information	Integration Series - XML Development Certificate	
Technology/AIT E-University continued	Integration Series - Wireless Development Certificate	
continued	Integration Series - Web Services Development	
	Certificate	
	Professional Workshops Series - Best Of Java	
Advanced Technical Support, Inc.	Development MCSE (Microsoft Certified Systems Engineer)	1530 East Dundee Road,
Advanced Technical Support, inc.	A+	Suite 360
		Palatine, IL
		60074-8319
Airline Career Training	Full Course Flight Dispatcher	1900 South Milwaukee
		Avenue Wheeling, IL
		60090-0000
Airway Flight Services Inc.	Commercial Pilot Program	1098 S. Milwaukee Ave.
, ,	Č	Wheeling, IL
	-	60090-6377
American Academy of Computer	Internet Track	5005 Newport Drive, Suite
Training and Technology, Inc.	Desktop Publishing/Graphics Track Operating Systems/Business Track	303 Rolling Meadows, IL
	DTP/Internet Track (This combo course modified	60008-3839
	for WIA only	
American Flyers	Multi Engine Flight Instructor Course	1108 S Milwaukee Ave
	Instrument Flight Instructor Course	Wheeling, IL
	Instrument Rating Course Private Pilot Certificate	60090-
Aquarius Institute Of Computer	A Plus Certification	911 E. Touhy Avenue
Sciences	Web Development (Basic)	Des Plaines, IL
	Cisco-CCIE	60018-2741
	Web Development (Advanced)	
	Windows 2000 (MCSE) Oracle Developer (OCP)	
	Java JSP	
	Oracle DBA Track	
	Web Design (Advanced)	
Associated Builders and	Ex-Offender Core Training – Painting	TCD - 301 S. Swift Road
Contractors	Wheels of LearningCORE curriculum	Addison, IL 60101-
	Carpentry Electricity	00101-
	Ex-Offender Core Training – Painting	1691 Elmhurst Road
	Painting	Elk Grove Village, IL
	Industrial Maintenance	60007-0000
Detecte In-	Plumbing	721 W+ Al
Batuta, Inc.	HIPAA Security Certified Network Architect Certified HIPAA Professional	721 West Algonquin Road, Suite 100
	Security Certified Network Professional	Arlington Heights, IL
	Certified HIPAA Security Specialist	60005-4415
	Certified HIPAA Privacy and Security Professional	26015 . 5
	HIPAA Security Certified Network Professional (HSCNP)	2604 East Dempster Avenue Chicago, IL
	Security Certified Network Architect	60068-8412
Cannella School of Hair Design	COSMETOLOGY	117 W CHICAGO
C		ELGIN, IL
Q.H. 000 P	No. of the last transfer of transfer of the last transfer of the last transfer of the last tr	60120-5401
College Of DuPage	Microsoft Certified Systems Engineer - MCSE	301 S. Swift Road
	Security + MS Windows 2000 - Course 1561	Addison, IL 60101-
	MS Windows 2000 - Course 2010	00101
	MS Windows 2000 - Course 2126	
	MS Windows 2000 - Course 2152	
	MS Windows 2000 - Course 2153	
	MS Windows 2000 - Course 2154 Microsoft Certified Data Base Administrator	
	MCSE-4 core courses	
	MCSA	
	CompTIA A+ PC Technical Program	
	MCSE - 3 Elective courses	
	Security Certified Network Professional (SCNP)	

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	Course of Study	Address
Comp USA, Inc.	Microsoft Certified Systems Engineer	1045 E. Golf Road
	Microsoft Office User Specialist Certification	Schaumburg, IL
	Program	60173-4505
	Database Application Developer Database Administrator	
	PC Technician Program	
	Oracle Database Administrator	
	Microsoft Office Proficiency Training Program	
	PC Technician Plus	
	Office Administrator Plus	
	Computer Application Basic Skill Builder Program	
	Microsoft Certified Database Administrator	
	Office Administrator	
	Oracle Database Developer	
	Computer Application Intermediate Skill Builder	
	Program	
	Web Administrator	
	Web Designer	
Computer Support Centres, Int	Computer Courses Like Microsoft, Claris, Adobe,	1340 Remington Road
	Act,	Schaumburg, IL
	Mous Computer Training	60173-1059
Creative Market Solutions, Inc.	Biz Idea Generator Learning Program	415 East Golf Road, Suite
	Getting to Go Self-Employment Assessment	110
	Program	Arlington Heights, IL
	Biz Starters Business Planning Program -	60005-0000
	Consulting Version	
	Biz Starters Business Planning Program - Business	
	Services	
	Biz Starters Business Planning Program	
	Biz Starters Business Planning Program - Internet	
	Business	
	Biz Starters Business Planning Program - Retail	
Deta Dana Daniana Lua	Version	1645 N. Danalas Dlad
Data Base Designs, Inc.	MCSE (Microsoft Certified System Engineer) Microsoft Certified Solution Developer	1645 N. Barclay Blvd. Buffalo Grove, IL
	Microsoft Certified Database Administrator -	60089-4544
	Win2000 Focus	00089-4344
	Microsoft Certified Application Developer	
	Microsoft Certified Patabase Administrator - VB	
	Focus	
	Microsoft Certified System Administrator	
DeVry University	Information Technology	1221 North Swift Road
	Electronics And Computer Technology	Addison, IL
	Electronics And Computer Technology Bachelor of Science in Business Administration	Addison, IL 60101-6106
Digital Knowledge Services		60101-6106
Digital Knowledge Services	Bachelor of Science in Business Administration	1
Digital Knowledge Services	Bachelor of Science in Business Administration CCNA (Cisco Certified Network Engineer)	60101-6106 10 North Martingale Road
Digital Knowledge Services	Bachelor of Science in Business Administration CCNA (Cisco Certified Network Engineer) CompTIA (A Plus certification)	60101-6106 10 North Martingale Road Schaumburg, IL 60173-
Digital Knowledge Services  Ekaab, Inc.	Bachelor of Science in Business Administration  CCNA (Cisco Certified Network Engineer)  CompTIA (A Plus certification)  CCNP (Cisco Certified Network Professional)	60101-6106 10 North Martingale Road Schaumburg, IL 60173-
	Bachelor of Science in Business Administration  CCNA (Cisco Certified Network Engineer)  CompTIA (A Plus certification)  CCNP (Cisco Certified Network Professional)  MCSE (Microsoft Certified Systems Engineer)	60101-6106 10 North Martingale Road Schaumburg, IL 60173- 10275 W. Higgins Road Ste 400
	Bachelor of Science in Business Administration  CCNA (Cisco Certified Network Engineer)  CompTIA (A Plus certification)  CCNP (Cisco Certified Network Professional)  MCSE (Microsoft Certified Systems Engineer)  Micro Strategy Certified Business Intelligence	60101-6106 10 North Martingale Road Schaumburg, IL 60173- 10275 W. Higgins Road Ste 400 Rosemont, IL
Ekaab, Inc.	Bachelor of Science in Business Administration CCNA (Cisco Certified Network Engineer) CompTIA (A Plus certification) CCNP (Cisco Certified Network Professional) MCSE (Microsoft Certified Systems Engineer) Micro Strategy Certified Business Intelligence Consultant	60101-6106 10 North Martingale Road Schaumburg, IL 60173- 10275 W. Higgins Road Ste 400 Rosemont, IL 60018-
	Bachelor of Science in Business Administration CCNA (Cisco Certified Network Engineer) CompTIA (A Plus certification) CCNP (Cisco Certified Network Professional) MCSE (Microsoft Certified Systems Engineer) Micro Strategy Certified Business Intelligence Consultant  Help Desk	60101-6106 10 North Martingale Road Schaumburg, IL 60173- 10275 W. Higgins Road Ste 400 Rosemont, IL 60018- 1600 East Golf Road
Ekaab, Inc.	Bachelor of Science in Business Administration  CCNA (Cisco Certified Network Engineer)  CompTIA (A Plus certification)  CCNP (Cisco Certified Network Professional)  MCSE (Microsoft Certified Systems Engineer)  Micro Strategy Certified Business Intelligence  Consultant  Help Desk  PC Maintenance, Upgrade And Repair	60101-6106  10 North Martingale Road Schaumburg, IL 60173-  10275 W. Higgins Road Ste 400 Rosemont, IL 60018- 1600 East Golf Road Des Plaines, IL
Ekaab, Inc.	Bachelor of Science in Business Administration  CCNA (Cisco Certified Network Engineer)  CompTIA (A Plus certification)  CCNP (Cisco Certified Network Professional)  MCSE (Microsoft Certified Systems Engineer)  Micro Strategy Certified Business Intelligence  Consultant  Help Desk  PC Maintenance, Upgrade And Repair  Business Computer Applications Featuring	60101-6106 10 North Martingale Road Schaumburg, IL 60173- 10275 W. Higgins Road Ste 400 Rosemont, IL 60018- 1600 East Golf Road
Ekaab, Inc.	Bachelor of Science in Business Administration  CCNA (Cisco Certified Network Engineer)  CompTIA (A Plus certification)  CCNP (Cisco Certified Network Professional)  MCSE (Microsoft Certified Systems Engineer)  Micro Strategy Certified Business Intelligence  Consultant  Help Desk  PC Maintenance, Upgrade And Repair  Business Computer Applications Featuring  Microsoft Office	60101-6106  10 North Martingale Road Schaumburg, IL 60173-  10275 W. Higgins Road Ste 400 Rosemont, IL 60018- 1600 East Golf Road Des Plaines, IL 60016-
Ekaab, Inc.	Bachelor of Science in Business Administration  CCNA (Cisco Certified Network Engineer)  CompTIA (A Plus certification)  CCNP (Cisco Certified Network Professional)  MCSE (Microsoft Certified Systems Engineer)  Micro Strategy Certified Business Intelligence  Consultant  Help Desk  PC Maintenance, Upgrade And Repair  Business Computer Applications Featuring  Microsoft Office  Database Management	60101-6106  10 North Martingale Road Schaumburg, IL 60173-  10275 W. Higgins Road Ste 400 Rosemont, IL 60018- 1600 East Golf Road Des Plaines, IL 60016- 30 DuPage Court
Ekaab, Inc.	Bachelor of Science in Business Administration  CCNA (Cisco Certified Network Engineer)  CompTIA (A Plus certification)  CCNP (Cisco Certified Network Professional)  MCSE (Microsoft Certified Systems Engineer)  Micro Strategy Certified Business Intelligence  Consultant  Help Desk  PC Maintenance, Upgrade And Repair  Business Computer Applications Featuring  Microsoft Office  Database Management  Electronic Spreadsheet	60101-6106  10 North Martingale Road Schaumburg, IL 60173-  10275 W. Higgins Road Ste 400 Rosemont, IL 60018- 1600 East Golf Road Des Plaines, IL 60016- 30 DuPage Court Elgin, IL
Ekaab, Inc.	Bachelor of Science in Business Administration  CCNA (Cisco Certified Network Engineer)  CompTIA (A Plus certification)  CCNP (Cisco Certified Network Professional)  MCSE (Microsoft Certified Systems Engineer)  Micro Strategy Certified Business Intelligence  Consultant  Help Desk  PC Maintenance, Upgrade And Repair  Business Computer Applications Featuring  Microsoft Office  Database Management  Electronic Spreadsheet  Electronic Word Processing	60101-6106  10 North Martingale Road Schaumburg, IL 60173-  10275 W. Higgins Road Ste 400 Rosemont, IL 60018- 1600 East Golf Road Des Plaines, IL 60016- 30 DuPage Court
Ekaab, Inc.	Bachelor of Science in Business Administration  CCNA (Cisco Certified Network Engineer)  CompTIA (A Plus certification)  CCNP (Cisco Certified Network Professional)  MCSE (Microsoft Certified Systems Engineer)  Micro Strategy Certified Business Intelligence  Consultant  Help Desk  PC Maintenance, Upgrade And Repair  Business Computer Applications Featuring  Microsoft Office  Database Management  Electronic Spreadsheet  Electronic Word Processing  Computer Operating Systems	60101-6106  10 North Martingale Road Schaumburg, IL 60173-  10275 W. Higgins Road Ste 400 Rosemont, IL 60018- 1600 East Golf Road Des Plaines, IL 60016- 30 DuPage Court Elgin, IL
Ekaab, Inc.	Bachelor of Science in Business Administration CCNA (Cisco Certified Network Engineer) CompTIA (A Plus certification) CCNP (Cisco Certified Network Professional) MCSE (Microsoft Certified Systems Engineer) Micro Strategy Certified Business Intelligence Consultant  Help Desk PC Maintenance, Upgrade And Repair Business Computer Applications Featuring Microsoft Office Database Management Electronic Spreadsheet Electronic Word Processing Computer Operating Systems Keyboarding Skill Development	60101-6106  10 North Martingale Road Schaumburg, IL 60173-  10275 W. Higgins Road Ste 400 Rosemont, IL 60018- 1600 East Golf Road Des Plaines, IL 60016- 30 DuPage Court Elgin, IL
Ekaab, Inc.  First Institute	Bachelor of Science in Business Administration  CCNA (Cisco Certified Network Engineer) CompTIA (A Plus certification) CCNP (Cisco Certified Network Professional) MCSE (Microsoft Certified Systems Engineer)  Micro Strategy Certified Business Intelligence Consultant  Help Desk PC Maintenance, Upgrade And Repair Business Computer Applications Featuring Microsoft Office Database Management Electronic Spreadsheet Electronic Word Processing Computer Operating Systems Keyboarding Skill Development Presentation Software	60101-6106  10 North Martingale Road Schaumburg, IL 60173-  10275 W. Higgins Road Ste 400 Rosemont, IL 60018- 1600 East Golf Road Des Plaines, IL 60016- 30 DuPage Court Elgin, IL 60120-
Ekaab, Inc.  First Institute  Focal Advanced Computer	Bachelor of Science in Business Administration  CCNA (Cisco Certified Network Engineer) CompTIA (A Plus certification) CCNP (Cisco Certified Network Professional) MCSE (Microsoft Certified Systems Engineer)  Micro Strategy Certified Business Intelligence Consultant  Help Desk PC Maintenance, Upgrade And Repair Business Computer Applications Featuring Microsoft Office Database Management Electronic Spreadsheet Electronic Word Processing Computer Operating Systems Keyboarding Skill Development Presentation Software  Application Development With C/C++ / Internet	60101-6106  10 North Martingale Road Schaumburg, IL 60173-  10275 W. Higgins Road Ste 400 Rosemont, IL 60018- 1600 East Golf Road Des Plaines, IL 60016- 30 DuPage Court Elgin, IL 60120-  3000 Dundee Road, Suite
Ekaab, Inc.  First Institute	Bachelor of Science in Business Administration  CCNA (Cisco Certified Network Engineer) CompTIA (A Plus certification) CCNP (Cisco Certified Network Professional) MCSE (Microsoft Certified Systems Engineer)  Micro Strategy Certified Business Intelligence Consultant  Help Desk PC Maintenance, Upgrade And Repair Business Computer Applications Featuring Microsoft Office Database Management Electronic Spreadsheet Electronic Spreadsheet Electronic Word Processing Computer Operating Systems Keyboarding Skill Development Presentation Software  Application Development With C/C++ / Internet Tools	60101-6106  10 North Martingale Road Schaumburg, IL 60173-  10275 W. Higgins Road Ste 400 Rosemont, IL 60018- 1600 East Golf Road Des Plaines, IL 60016- 30 DuPage Court Elgin, IL 60120-  3000 Dundee Road, Suite 309
Ekaab, Inc.  First Institute  Focal Advanced Computer	Bachelor of Science in Business Administration  CCNA (Cisco Certified Network Engineer) CompTIA (A Plus certification) CCNP (Cisco Certified Network Professional) MCSE (Microsoft Certified Systems Engineer)  Micro Strategy Certified Business Intelligence Consultant  Help Desk PC Maintenance, Upgrade And Repair Business Computer Applications Featuring Microsoft Office Database Management Electronic Spreadsheet Electronic Word Processing Computer Operating Systems Keyboarding Skill Development Presentation Software  Application Development With C/C++ / Internet Tools GUI Development With Visual Basic And Oracle	60101-6106  10 North Martingale Road Schaumburg, IL 60173-  10275 W. Higgins Road Ste 400 Rosemont, IL 60018- 1600 East Golf Road Des Plaines, IL 60016- 30 DuPage Court Elgin, IL 60120-  3000 Dundee Road, Suite 309 Northbrook, IL
Ekaab, Inc.  First Institute  Focal Advanced Computer	Bachelor of Science in Business Administration  CCNA (Cisco Certified Network Engineer) CompTIA (A Plus certification) CCNP (Cisco Certified Network Professional) MCSE (Microsoft Certified Systems Engineer)  Micro Strategy Certified Business Intelligence Consultant  Help Desk PC Maintenance, Upgrade And Repair Business Computer Applications Featuring Microsoft Office Database Management Electronic Spreadsheet Electronic Spreadsheet Electronic Word Processing Computer Operating Systems Keyboarding Skill Development Presentation Software  Application Development With C/C++ / Internet Tools GUI Development With Visual Basic And Oracle Advanced Unix Two Shell Programming	60101-6106  10 North Martingale Road Schaumburg, IL 60173-  10275 W. Higgins Road Ste 400 Rosemont, IL 60018- 1600 East Golf Road Des Plaines, IL 60016- 30 DuPage Court Elgin, IL 60120-  3000 Dundee Road, Suite 309
Ekaab, Inc.  First Institute  Focal Advanced Computer	Bachelor of Science in Business Administration  CCNA (Cisco Certified Network Engineer) CompTIA (A Plus certification) CCNP (Cisco Certified Network Professional) MCSE (Microsoft Certified Systems Engineer)  Micro Strategy Certified Business Intelligence Consultant  Help Desk PC Maintenance, Upgrade And Repair Business Computer Applications Featuring Microsoft Office Database Management Electronic Spreadsheet Electronic Word Processing Computer Operating Systems Keyboarding Skill Development Presentation Software  Application Development With C/C++ / Internet Tools GUI Development With Visual Basic And Oracle	60101-6106  10 North Martingale Road Schaumburg, IL 60173-  10275 W. Higgins Road Ste 400 Rosemont, IL 60018- 1600 East Golf Road Des Plaines, IL 60016- 30 DuPage Court Elgin, IL 60120-  3000 Dundee Road, Suite 309 Northbrook, IL

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Provider Name	Course of Study	Address
Focal Advanced Computer	HIPAA Technical program for IT professionals	
Technology continued	Oracle Developer 2000	
	Web Development With Html, asp, and Java HIPAA Technical program for Non-IT	
	Professionals	
	Adv Unix /adv Visual Basic/bldg GUI App with	
	java vb/db Adm/	701 D 1 D 1 D 1
Global Institute for Software Technology, Inc	Microsoft SQL Server 2000 Database Administrator - MCDBA	701 E. Irving Park Road, Suite 302
reciniology, nie	Microsoft Certified System Administrator – MCSA	
	Oracle 9i Certification - Certified Database	60172-
	Associate	
	GISTDS-001: RDBMS Fundamentals Oracle 9i Certification - Certified Database	
	Administrator	
	Oracle 9i Database Administration (OCP)	
	Oracle 11i e-business Database Administration	
	Java Enterprise Solutions Oracle Application Developer Track (OCP)	
	Java Programming	
Global Knowledge	CCNA Certification Program	1500 McConnor Parkway,
-	CCNP BOOT CAMP	Suite 500
	BCMSN - BUILDING CISCO MULTILAYER	Schaumburg, IL 60173-0000
	SWITCHED NETWORKS BCRAN - BUILDING CISCO REMOTE ACCESS	001/3-0000
	NETWORKS	
	CIT - CISCO INTERNETWORK	
	TROUBLESHOOTING	
Grayspace Technology Training	BSCI - Building Scalable Cisco Internetworks CompTIA Network+ Certification Preparation	4256 North Arlington
Center	CompTIA A+ Certification Preparation	Heights Rd., Suite 100
	Microsoft MCSE Certification Preparation	Arlington Heights, IL
	Cisco CCNA Certification Preparation	60004-1399
Hanover Pk. Clg. Of Bty. Cul. Inc	Microsoft MCSA Certification Preparation Cosmetologist	1166 E. Lake Street
Hanover FR. Cig. Of Bty. Cur. Inc	Cosmetologist	Hanover Park, IL
W. 11. G. V. C.		60103-5421
Health Career Institute	Basic Nursing Assistant Training program	8425 Waukegan Road Morton Grove, IL
		60053-
I.T. Quality Group, Inc.	Quality Assurance/software Testing Course	1400 E. Lake Cook Rd., Ste
	Computerized Accounting/Administrative	145
	Assistance program ESL (Beginning/Intermediate/Advanced) program	Buffalo Grove, IL 60089-8218
	Unix and C++ (C++/Unix/Advanced C++) program	
	WebSphere and Visual Age course	
	Basic concepts of E- Commerce and Relational	
	Database Java Technologies and Multi-tier Applications	
	Development Development	
	Basic Java Language Applications Development	
	course	
	Quality Assurance Program Advanced Web Applications Development Course	
	Medical Coder Professional program	
	Medical Insurance Billing/Coding Program	
	Computerized Accounting/Medical Billing	
	Program Oracle Development Administration Program	
	Computer Drafting III	
	Computer Drafting II	
	Advanced Coding/Certification readiness course E - Commerce Java Program	
	Unified Modeling Language with Rational Rose	
	Course	
	ToolDie Maker/Designer Program	
	Microsoft.Net Platform Program Computer Drafting I	
	Web Applications Development Course	
	FF The Participant Course	<del> </del>

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Provider Name	Course of Study	Address
I.T. Quality Group, Inc. continued	Extensible Markup Language (XML) course	
	Computer Drafting I - III program E - Commerce Solutions Program	
Incite Technology Corporation	A+ Plus Certification Training- CompTIA	649 Landwehr Road
mene reemiology corporation	Certification Prog	Northbrook, IL
	CISCO CCNA	60062-2309
	Microsoft Certified Systems Engineer	
Information Technical Institute	Direct Support Person (for disable)	2720 S. River Rd., Suite 256
	LAN Management Certificate	Des Plaines, IL
	Web Development Oracle Certification Program	60018-
	Allied Health with Computerized Accounting	
	Computer Aided Design and Drafting (CADD)	
	Microsoft Certified Database Administrator	
	Allied Health with Computer Application	
	Certificate Application Development Certificate	
	Microsoft Certified Systems Engineer	
	Allied Health with MOUS	
International Institute For Learning	The Project Management Certificate Program	NIU Hoffman Estates
	Microsoft Project 2000 Certification Series	Center, 5555 Trillium Blvd.
		Hoffman Estates, IL
Jennings Computer Systems, Inc.	Microsoft Certified Systems Engineer	60192- 1340 Remington Road, Suite
(JCSI)	Wherosoft Certified Systems Engineer	W
		Schaumburg, IL
		60173-4821
JumpStart Career, Inc.	Microsoft Certified Systems Engineer (MCSE)	2720 South River Road,
	A+ Technician Oracle Data Base Administrator	Suite 256 Des Plaines, IL
	Sun Certified Systems Administrator (SCSA)	60018-0000
	Oracle Applications Developer (OCP)	
Management Info Tech Solutions	Oracle Database Administration	1701 E Woodfield Road
Mits, Inc.	Careerpro E-commerce Comp. Network And Systems Administration / MCSE	Suite # 750 Schaumburg, IL
	W2K	60173-5127
	C++, Visual C++ Programming	00175 5127
	Project Management	
	Oracle Application Development Program	
	Visual Basic 6.0 (programming For Windows) E-commerce (for Programmers) Webmaster:	
	Internet App. Devlp	
	Comprehensive Masters Certificate Program	
Manpower	Manpower Skillware Computer Training And	830 West End Court, Suite
	Techtrack Training	800
	MS Access – Intermediate	Vernon Hills, IL
	MS Powerpoint – Introduction Excel – Introduction	60061-1379
	Excel – Introduction  Excel – Intermediate	
	MS Project	
	MS Outlook	
	MS Word – Introduction	
	Excel – Advanced Call Center Training	
	MS Word – Intermediate	
	Keyboarding Skills	
	Excel – Macros	
	Lotus Notes - Electronic Mail Calendaring	
	Internet Basics MS Word – Advanced	
	MS Windows	
	MS Powerpoint – Intermediate	
	MS Access - Introduction	
Microhard Technical Institute, Inc.		3601 Algonquin Road, Suite
	Microsoft Certified Database Administrator MOUS	605 Rolling Medows, IL
	Microsoft Office and PC Specialist Certguru	60008-3110
	Database Administration CertGuru	
	IBM DB2	

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Provider Name	Course of Study	Address
Microhard Technical Institute, Inc.	Network Engineer Certguru	
continued	Microsoft Network and Database CertGuru WAN Specialist Certguru	
	Helpdesk Specialist Certguru	
	MCSE for beginners	
	LAN/WAN Specialist	
	Network Administrator Certgure	
	IT Support Specialist CertGuru	
	Oracle Developer 2000	
	Certified Cisco Network Administrator Web Developer/E-Commerce	
	Oracle DBA	
	Certified Cisco Network Professional	
	Certified Netware Administrator	
	Microsoft Certified Systems Engineer	
	Microsoft Certified Professional Certified Novell Engineer	
	Network+	
Microlan Solutions Inc	Certified Internet Webmaster (CIW)	3325 N. Arlington Hts Rd.
	Oracle Certified Professional (OCP)	Ste 200-a
	Certified Solaris Administrator (CSA)	Arlington Heights, IL
	A+ Certification	60004-1582
	CCNP	
	Java MCSE 2000	
	Cisco Certification	
	MCSA	
National-Louis University	Master of Arts in Teaching - Elementary Education	1000 Capitol Drive
	Illinois Teacher Certification	Wheeling, IL
N Hi Ct Ii	Master of Arts in Teaching - Secondary Education	60090-
New Horizons Computer Learning Centers	A+ Mcsd Microsoft Certified Solution Developer	8550 W. Bryn Mawr Chicago, IL
Centers	MCSA Microsoft Certified Systems Administrator	60631-3203
	CIW Certified Internet Webmaster	
	Msce	
	Cne	
	Ccna Network+	
	Mous	
Northern Illinois University	Fundamentals of Human Resource Management	5555 Trillium Boulevard
	Professional HR Management Certification	Hoffman Estates, IL
	Program	60192-
	Alternative Teacher Certification The National Safety Education Center	
Northpointe Achievement Center	Occupational Skills - Housekeeping	200 Wilmot Road
Northpointe / temevement Center	Occupational Skills Training - Mail	Deerfield, IL
	Services/shippingrec.	60015-
NOW E-learning	MCSE Win 2000	1793 Bloomingdale Rd.
	CCNA/CCNP w/ 5 Exam Vouchers	Suite # 1
	Oracle DBA track Checkpoint / Cissp w/ Exam Vouchers	Glendale Hts., IL
	A Plus	60139-3800
	Cisco – CCNA	
	CCNP	
	Cisco CCIE	
Oakton Community College	Professional Selling Skills Certificate	1600 East Golf Road
	Automation Controls Certificate Architectural/CAD	Des Plaines, IL 60016-1258
	Computer-Aided Design	00010 1250
	Early Childhood Ed Ages 3-5	
	Residential Comfort Systems Installer	
	Automotive Service Excellence	
	Tool and Die Design and Engineering Certificate	
	Medical Office Billing Certificate Preparatory Substance Abuse Counseling	
	Certificate Counseling	
	Phlebotomy Certificate	
	Office Information Processing Specialist	
	Computer User Certificate	

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Provider Name	Course of Study	Address
Oakton Community College	Network Administration Certificate	
continued	A+ Computer Diagnostic Specialist	
	Web Site Support and Maintenance Certificate	
	e-Business Certificate Real Estate Certificate	
	Animation and Multimedia Certificate	
	Web Graphic Page Design Certificate	
	Mechanical Design/CAD Certificate	
	Law Enforcement (associate degree)	
	Health Information Technology associate degree	
	Physical Therapy Assistant program	
	Nursing (associate Degree)	
	Microsoft Certified Systems Engineer (MCSE)	
	Certificate	
P.C. T. T. T. C.	Advanced Web Site Development Certificate	1014 E 41
Pc Center Training Institute	MCDBA	1014 E. Algonquin Road
	CCNA Package(includes A+ Net+)	Suite 104 Schaumburg, IL
	MCSA Comptia Certified Course For A+	60173-
	Oracle Package	00173-
	A+ Network+ Combo	
	A+ MCSE Combo	
	Oracle DBA 9i	
	Oracle Forms Developer Rel.6/6i	
	CC Security Administrator (CCSA)	
	Oracle Developer 2000 Track	
	Help Desk Security Package	
	Special Database Package	
	CCIE LAB	
	Database Package	
	Network Security+ Package MCSE Exchange Server 2	
	Net+, MCSE/MCDBA, CCNA, CCSA	
	Special MCSE Package 2	
	Special CIW package	
	Special Programming Database Package 2	
	MCAD Oracle Package 2	
	Special Mous Package	
	MCAD.Net Package	
	Networking Exchange Package 2	
	Database Package 2	
	Database Networking Package	
	Cisco Package	
	CICSO PIX - Network Security MCSE Security Package 2	
	Special Security Package  Special Security Package	
	Server+, Network+, CCNA	
	Technician MOUS Package	
	MCSE Exchange Package	
	Special Oracle DBA 9i and Java Package 2	
	MCSE Securtity Package	
	CNSC (CISCO WIRELESS NETWORKING	
	CERTIFICATE)	
	Special CIW Package 2	
	Special Programming Database Package	
	Mous Package	
	Special MCSE Package MCAD JAva Package 2	
	Help Desk Package	
	SQL Server Administration	
	Special Internet Package(Web Devl, E-Comm	
	Java)	
	Networking Security Package	
	Special Oracle DBA 9i And Java Package	
	Cisco Networking Package 2	
	Mous Level 1	
	Deluxe Networking Security Package	
	CICSO Wireless-CNSC	
	Network Security Package 2	

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Provider Name	Course of Study	Address
Pc Center Training Institute	CISCO WRITTEN	
continued	Help Desk Technician	
	Cisco Networking Package	
	Microsoft Cisco Package A+ and Mous Package	
	Cisco Certified Internet Expert	
	Security Package	
	MCAD Java Package	
	MCSE Special Package	
	Special Oracle Package with Exams	
	Administrative Package 2 CICSO Wireless, CISCO PIX and	
	CHeckPointSecurity(CCSA)	
	Cisco Pix, Cisco Wireless CCSA	
	Mous Level 2	
	Mous Combo Package	
	Administrative Package	
	MCSE, MCDBA, Cisco Pix, Cisco Wireless SQL Server Design	
	Networking Exchange Package	
	MCSE Networking Package	
	Microsoft Cisco Package 2	
	MCAD.Net Package 2	
	Networking Security Package 2	
	ORACLE DBA9i MCAD Oracle Package	
	Net+, MCSE/MCDBA, CCNA, CCSA 2	
	Special Networking Security Package	
	CIW Course For E-Commerce Solutions	
	CIW Course for Mastering Web Site Fundamentals	
	JAVA2 PROGRAMMER	
	Oracle Forms Developer Rel. 6/6i ORACLE PACAGE	
	Microsoft Certified Systems Engineer Windows	
	2000	
	MCSA(MICROSOFT CERTIFIED SYSTEMS	
	ADMINISTRATOR)	
	E-COMMERCE SOLUTIONS	
	Sun Certified Java 2 Programer Cisco Certified Internetwork Expert (CCIE)	
	Cisco Certified Network Associate (CCNA)	
	Cisco Certified Network Partner (CCNP)	
	Comptia Certified Course for Network +	
	CCNA PACKAGE	
PPi-chicago Acquisition Corp.	Java / Xml	1419 Lake Cook Road
(Productivity Point, Intl.)	Application Courses .NET NEW!	Deerfield, IL 60015-
	Web Development	00013
	Citrix Certification - Cca / Ccea	3601 Algonquin Road
	MCAD: Microsoft Certified Application Developer	
	Macromedia	60008-
	Unix Mcdba 2000	
	Mcse 2000	
	Cisco	
	Coldfusion And Homesite	
	Network +	
	Novell Certification - Cna / Cne	
	Lotus Mcsd-microsoft Certified Solution Developer	
	MCSA - Windows 2000 Cetification - NEW!	
	MCAD - Microsoft Certified Application	
	Developer	
Professional Bartenders School	Bartending	315 West Golf Road
		Schaumburg, IL
Quality Tachnology Company	Six Sigma Green Polt Training	60195-5344 1320 Tower Road, Suite 139
Quality Technology Company	Six Sigma Green Belt Training ISO 9001:2000 Internal Auditing Training	Schaumburg, IL
		60173-4309
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Provider Name	Course of Study	Address
RAND Worldwide	Pro/Engineer Software Training	2030 E. Algonquin Road,
		Ste. 402 Schaumberg, IL
		60173-4159
Robert Morris College	Graphic Design - Graphic Arts	1000 Tower Lane, Suite 115
Robert Monts Conege	Computer Networking	Bensenville, IL
	Graphic Arts	60106-
	Medical Assisting	
	Computer Studies - Networking/CISCO	
	Business Administration – Management	
Roosevelt University	Business Administration Secondary Teacher Education Program	1400 North Roosevelt Blvd.
Rooseven Oniversity	(Undergraduate)	Schaumburg,
	Elementary Teacher Education Program	60173-4348
	(Undergraduate)	
	Certificate In Instructional Design (Graduate	
	Level)	
	Policy Studies\Paralegal Cert. (Undergraduate)	
	Early Childhood Teacher Prep:Bachelor of Prof Studies	
	History:Bachelor of General Studies	
	Meeting, Convention and Exposition Planning	
	Certificate (UG	
	Pre-BioTech and Chemical Science: Bachelor of	
	Prof Studies	
	Risk Management, Insurance Financial Services	
	(Undergrad)	
	Languages:Bachelor of General Studies Systems Management: Bachelor of Professional	
	Studies	
	Hospitality and Tourism Management Certificate	
	Professional Administration: Bachelor of	
	Professional Studie	
	Organizational Communication:Bachelor of Prof	
	Studies	
	Telecommunications:Bachelor of Professional	
	Studies Environmental Science (Undergraduate)	
	Mathematics/Statistics (Undergraduate)	
	Women and Gender Studies: Bachelor of General	
	Studies	
	Public Administration (Graduate Level)	
	Administrative Studies: Bachelor of Professional	
	Studies	
	Training Development Certificate Program (Graduate level )	
	(Graduate level ) Literature: Bachelor of General Studies	
	Financial Services:Bachelor of Professional	
	Services	
	Communications:Bachelor of General Studies	
	Environmental Policy (Undergraduate)	
	Biology (Undergraduate)	
	Organizational Leadership:Bachelor of	
	Professional Studies Computer Science certificate	
	Journalism:Bachelor of General Studies	
	Secondary Teacher Education (Graduate)	
	Special Education Teacher Program	
	(Undergraduate)	
	Computer Science:Bachelor of Professional Studies	S
	History (Graduate Level)	
	Geographical Information Systems (Certificate)	
	Sociology (Undergraduate)	
	Economics (Undergraduate) Electronics Engineering Technology	
	(Undergraduate)	
	Hospitality and Tourism Management	
	(Undergraduate Degree)	
	International Studies:Bachelor of General Studies	

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Provider Name	Course of Study	Address
Roosevelt University continued	Biotechnology certificate	
	Liberal Arts:Bachelor of General Studies Political Science:Bachelor of General Studies	
	Risk Manage, Insurance, Finan Serv:Bachelor of	
	Prof Studies	
	Actuarial Science (Undergraduate)	
	Allied Health (Undergraduate)	
	Chemistry (Undergraduate)	
	Accounting (Undergraduate)	
	Language and Literacy (Graduate Level) Certificate In E-Learning (Graduate Level)	
	Non-Profit Management Certificate (Graduate	
	level)	
	Sociology:Bachelor of General Studies	
	Business:Bachelor of Professional Studies	
	Paralegal Studies: Bachelor of Professional Studies	
	Web Technology:Bachelors of Professional Studies Metropolitian Studies:Bachelor of General Studies	
	Pre-professional Studies Program (Undergraduate)	
	Psychology:Bachelor of Professional Studies	
	Individualized Program:Bachelor of General	
	Studies	
	Journalism (Undergraduate)	
	Hospitality and Tourism Management (Graduate Level)	
Samland Health Care Training	Basic Nursing Assistant Training Program	2644 E. Dempster St.
Program	Substitution graduate realization graduate	Park Ridge, IL
		60068-
Solex Computer Academy Inc	Introduction To Programming	401 S. Milwaukee Ave
	Software Testing And Quality Assurance	Wheeling, IL
	English As A Second Language Medical Terminology Computerized Medical	60090-5079
	Medical Terminology, Computerized Medical Billing and Coding	
	Medical Therapy	
	Computerized Accounting And Bookkeeping	
	E-commerce / Web Development	
	Diagnostic Medical Ultrasound	
	Fundamentals of Electronics and Troubleshooting HIPAA Project Management Professional (PMP)	
	Certification	
	Real Estate Appraisal Licensing Program	
	Project Management Professional (PMP®)	
	Certification Program	
	Auto CAD Program Solid Works Program	
	Management Career Program and PMP®	
	Certification	
	Medical Office Computerization, Automation and	
	Management	
	Information Technology for the Managers	
	ORACLE Database Administration HIPAA CERTIFICATION PROGRAM	
	Computerized Office Technology	
	C Programming Language	
	Certified Nurse Assistant	
	Computerized Office and Accounting Program	
	Java And Object Oriented Programming (oop)	
	Computerized Accounting and Medical Billing Basic Computer Knowledge and Computerized	
	Office Technology	
	C++ Programming Language	
	E-Commerce, Java, Object Oriented Programming	
	(OOP)	
	Computerized Accounting and Bookkeeping Career program	
	Career program	Î.
	Cics Development Program	

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Provider Name	Course of Study	Address
Solex Computer Academy Inc	Db2 Development Program	
continued	Oracle Developer 2000	
	Oracle, Sql, Pl/sql Development Program	
	Sql Server / Ms Access Development Program	
	Unix, Tcp/ip Visual Basic Development Program	
	UNIX, C, C++ and ORACLE Technologies	
	DOT Net Development Platform	
	DB2, CICS, ORACLE, JAVA Development	
Star Truck Driving School, Inc	160 O.T.R. Pro Driver Course	700 Larsen Lane
Star Truck Briving School, me	200 Hour Local Pro Driver Program	Bensenville, IL
	240 Hour Regional Pro Driver Course	60106-
Surja IT Academy	CompTIA A+ Certified Wireless Network	424 State Parkway, suite 228
,	Administrator combo	Schaumburg, IL
	Microsoft Office User Specialist (MOUS) Master	60173-6406
	Certification	
	Oracle Certified Professional DBA	
	Linux Professional Institute Level 1 Linux	
	Certification	
	Certiport Internet and Computing Core	
	Certification (IC3)	
	Certiport IC3 and CompTIA A+ Certifications	
	(combo)	
	Certified HIPAA Security Specialist Java 2 Programmer Certification	
	Certified Wireless Network Administrator	
	(CWNA)	
	LPI Level 1 and Java Programmer Certifications	
	(combo)	
	Certiport IC3 and MS MOUS Combo Package	
	CompTIA Network+ certification	
	CompTIA A+ and Network+ combo	
	CompTIA Linux+	
TEC Services Consulting, Inc.	TeraTRAIN	650 E. Higgins Road
		Schaumburg, IL
		60173-
Technow	CISSP Boot Camp	8101 Higgins Road,
	MCSE Boot Camp	Chicago, IL
	Solaris Network Administration Certification	60631-0000
	TN-334 Dual Certification CISSP/Hack and	
The Illinois Institute of Art -	Defend Digital Graphic Design	999 North Plaza Drive
Schaumburg	Digital Graphic Design Digital Photography	Schamburg, IL
Schaumburg	Web Design	60173-4990
	Web Site Development	00173-4770
	Multimedia	1000 North Plaza Drive
	3D Animation Principles and Techniques	Schaumburg, IL
	A 1 1 1 1 1 D .	
	Advanced web Programming	60173-4990
	Advanced Web Programming Interior Design	60173-4990
		60173-4990
	Interior Design	60173-4990
	Interior Design Visual Communications	60173-4990
	Interior Design Visual Communications Game Art and Design Multimedia Web Design Media Arts and Animation	60173-4990
	Interior Design Visual Communications Game Art and Design Multimedia Web Design Media Arts and Animation Digital Media Production	60173-4990
Tooling Manufacturing	Interior Design Visual Communications Game Art and Design Multimedia Web Design Media Arts and Animation Digital Media Production AutoCAD 2002 - Level 1: The Basics	1177 South Dee Road
Tooling Manufacturing Association	Interior Design Visual Communications Game Art and Design Multimedia Web Design Media Arts and Animation Digital Media Production AutoCAD 2002 - Level 1: The Basics Introduction to CADKEY 99	1177 South Dee Road Park Ridge, IL
	Interior Design Visual Communications Game Art and Design Multimedia Web Design Media Arts and Animation Digital Media Production AutoCAD 2002 - Level 1: The Basics Introduction to CADKEY 99 Course 301/Advanced Die Making	1177 South Dee Road
	Interior Design Visual Communications Game Art and Design Multimedia Web Design Media Arts and Animation Digital Media Production AutoCAD 2002 - Level 1: The Basics Introduction to CADKEY 99 Course 301/Advanced Die Making Course 101/Industrial Math II	1177 South Dee Road Park Ridge, IL
	Interior Design Visual Communications Game Art and Design Multimedia Web Design Media Arts and Animation Digital Media Production AutoCAD 2002 - Level 1: The Basics Introduction to CADKEY 99 Course 301/Advanced Die Making Course 101/Industrial Math II AutoCAD 2000 - Level 1 The Basics	1177 South Dee Road Park Ridge, IL
	Interior Design Visual Communications Game Art and Design Multimedia Web Design Media Arts and Animation Digital Media Production AutoCAD 2002 - Level 1: The Basics Introduction to CADKEY 99 Course 301/Advanced Die Making Course 101/Industrial Math II AutoCAD 2000 - Level 1 The Basics Esprit for Wire	1177 South Dee Road Park Ridge, IL
	Interior Design Visual Communications Game Art and Design Multimedia Web Design Media Arts and Animation Digital Media Production AutoCAD 2002 - Level 1: The Basics Introduction to CADKEY 99 Course 301/Advanced Die Making Course 101/Industrial Math II AutoCAD 2000 - Level 1 The Basics Esprit for Wire AutoCAD 2000 - Level II	1177 South Dee Road Park Ridge, IL
	Interior Design Visual Communications Game Art and Design Multimedia Web Design Media Arts and Animation Digital Media Production AutoCAD 2002 - Level 1: The Basics Introduction to CADKEY 99 Course 301/Advanced Die Making Course 101/Industrial Math II AutoCAD 2000 - Level 1 The Basics Esprit for Wire AutoCAD 2000 - Level II Course 302/Advanced Mold Making	1177 South Dee Road Park Ridge, IL
	Interior Design Visual Communications Game Art and Design Multimedia Web Design Media Arts and Animation Digital Media Production AutoCAD 2002 - Level 1: The Basics Introduction to CADKEY 99 Course 301/Advanced Die Making Course 101/Industrial Math II AutoCAD 2000 - Level 1 The Basics Esprit for Wire AutoCAD 2000 - Level II Course 302/Advanced Mold Making Course 300/Advanced Precision Machining	1177 South Dee Road Park Ridge, IL
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	Interior Design Visual Communications Game Art and Design Multimedia Web Design Media Arts and Animation Digital Media Production AutoCAD 2002 - Level 1: The Basics Introduction to CADKEY 99 Course 301/Advanced Die Making Course 101/Industrial Math II AutoCAD 2000 - Level 1 The Basics Esprit for Wire AutoCAD 2000 - Level II Course 302/Advanced Mold Making Course 300/Advanced Precision Machining Course 102/Industrial Prints Course 104/Machine tool Technology I School of Design - Mold Design - Die Design	1177 South Dee Road Park Ridge, IL
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Provider Name	Course of Study	Address
Tooling Manufacturing	Course 200/Machine Tool Technology II	
Association continued	Course 103/Industrial Math III	
Westwood College of Technology	Graphic Design and Multimedia	4825 N. Scott Street
		Schiller Park, IL
	Computer Aided Design/Architectural Drafting	60176-
	Computer Programming and Software Technology	
Worsham College of Mortuary	Associate of Science Degree in Mortuary Science	495 Northgate Parkway
Science	Certificate Program in Mortuary Science	Wheeling, IL
		60090-2646

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## Sources by Area

## **Key Sources by Section**

## Economic

Unemployment Statistics: IDES Occupational Statistics: 2000 Census;

BLS

Chicago MSA Economic Projections:

FRBC, NBER Income Statistics: 2000 Census

Housing Information: NAR Training expenditure reduction:

Periodical news, Corporate Services,

Interviews

Education

Changing dynamics of High School For-Profit Institutions: CCRC, CHERI,

graduates: CCRC University of Phoenix

Education trends: CCRC, CHERI, Outcome-Based education: CCRC, ICCB, IBHE, NCPPHE, IHEP, Harper CHERI, IBHC, PCT, University of

Internal Data Phoenix

Grant reductions: Periodical news, State Educational preparation: CCRC,

of Illinois, internal interviews CHERI, NCPPHE, IHEP

Transfer administration: NCPPHE, IHEP

**Demographics** 

2000 US Census

Periodicals

Harper College Data

Local Municipalities
Intellistar Market Research Report

**Politics** 

State of Illinois IBHE

Interviews ICCB

Periodicals NIPC

Social

Interviews NIPC

Periodicals DOE

Intellistar Market Research Report IBHE

**Technology** 

FY 2003 DARPA Budget Estimates

Periodicals

NSF

## **Critical Sources**

Bureau of Labor Statistics (BLS)

http://www.bls.gov/

Bureau of the Census <a href="http://www.census.gov/">http://www.census.gov/</a>

US Department of Education (DOE) www.ed.gov/

Federal Reserve Bank of Chicago (FRBC) http://www.chicagofed.org

Federal Deposit Insurance Corporation (FDIC) <a href="http://www.fdic.gov">http://www.fdic.gov</a>

Defense Advanced Research Projects Agency (DARPA) <a href="http://www.darpa.mil">http://www.darpa.mil</a>

American Association of Community Colleges (AACC) http://www.aacc.nche.edu

Northeastern Illinois Planning Commission (NIPC) http://www.nipc.cog.il.us/

National Science Foundation (NSF) www.nsf.gov/

Illinois Department of Employment Security (IDES) http://lmi.ides.state.il.us/

State of Illinois http://www100.state.il.us/

Illinois Chamber of Commerce (ICC) <a href="http://www.ilchamber.org/">http://www.ilchamber.org/</a>

National Bureau of Economic Research (NBER) http://www.nber.org/

National Association of Realtors (NAR) http://www.realtor.org Community College Research Council (CCRC) <a href="http://www.tc.columbia.edu/~iee/ccrc/">http://www.tc.columbia.edu/~iee/ccrc/</a>

The Pew Charitable Trusts (PCT) <a href="http://www.pewtrusts.com/">http://www.pewtrusts.com/</a>

Cornell Higher Education Research Institute (CHERI) <a href="http://www.ilr.cornell.edu/cheri/">http://www.ilr.cornell.edu/cheri/</a>

The College Board <a href="http://www.collegeboard.com/">http://www.collegeboard.com/</a>

Illinois Board of Higher Education (IBHE) <a href="http://www.ibhe.state.il.us">http://www.ibhe.state.il.us</a>

Illinois Community College Board (ICCB) <a href="http://www.iccb.state.il.us/">http://www.iccb.state.il.us/</a>

National Center for Public Policy and Higher Education (NCPPHE) www.highereducation.org/

Institute for Higher Education Policy <a href="https://www.ihep.com/">www.ihep.com/</a>

Harper 2002 Factbook

Intellistar Market Research Report

Interviews with Harper faculty, staff, and students.

The local governments of communities served by Harper

National, regional, and local periodicals

Third Party Environmental Scans

Community College Survey of Student Engagement www.ccsse.org

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