

NEW UNITS OF INSTRUCTION AT PUBLIC COMMUNITY COLLEGES

Submitted for: Action.

Summary: This item requests approval of three new associate degree programs to be offered at three community colleges.

Action Requested: That the Illinois Board of Higher Education approves the following programs at the colleges indicated:

Carl Sandburg College

- Associate in Applied Science in Industrial Welding Technology

John A. Logan College

- Associate in Applied Science in Computer Forensics

Shawnee Community College

- Associate in Applied Science in Heating/Air Conditioning Fabrication

STATE OF ILLINOIS
BOARD OF HIGHER EDUCATION

NEW UNITS OF INSTRUCTION AT PUBLIC COMMUNITY COLLEGES

By statute, the Illinois Board of Higher Education is responsible for approving new associate degree programs proposed by public community colleges. The Board's approval criteria, defined in administrative rules, address relevance to college mission, academic control, faculty and staff, support services, financial resources, student demand, employer demand, curriculum, and congruence with IBHE policies and priorities. Before a recommendation for approval of an associate degree program is submitted to the IBHE for approval, staffs of the IBHE and the Illinois Community College Board (ICCB) review the proposal. Once agreement is reached on a proposal having met the approval criteria, a recommendation for approval is presented to each board.

Carl Sandburg College
2400 Tom L. Wilson Boulevard
Galesburg, Illinois 61401
President: Dr. Lori L. Sundberg

Proposed Program Title: Associate in Applied Science in Industrial Welding Technology

Projected Enrollments: Carl Sandburg College projects a continuing enrollment of approximately 12 full-time and part-time students in the program.

Introduction, Curriculum, and Assessment of Student Learning Outcomes

Carl Sandburg College is seeking permanent approval for its Industrial Welding Technology Associate in Applied Science (A.A.S.) degree program, which was granted temporary approval in September 2008 and has been operational for a period of three years. This program prepares individuals for entry-level employment as welders in industrialized settings, as well as for advancement opportunities into management. The curriculum was developed according to standards established by the American Welding Society (AWS) for a variety of certifications and includes 15 semester credit hours of required general education coursework and 49 semester credit hours of required career and technical education coursework. The career and technical component includes instruction in fundamentals of welding theory, metal preparation, metallurgy fundamentals, basic and advanced arc welding, basic and advanced gas shielded arc welding-MIG and TIG, flux core arc welding, gas applications, robotic applications welding, electrical fundamentals, machine tool fundamentals, manufacturing processes, introductory drafting, welding blueprints, industrial safety, total quality management, production and inventory control, weld test evaluations, supervision fundamentals, and a required work-based learning experience in welding. Assessment of student learning objectives is achieved through a comprehensive final performance exam as well as through evaluation of the student's performance during the work-based learning experience.

Labor Market Information

Labor market information provided by the college supports the interest in and the need for a two-year degree program for existing welders beyond current educational opportunities in technical skill training. The degree has also provided an educational ladder opportunity for students and graduates of the college’s existing Welding Certificate program. The college enrolled over 1,000 students in welding courses since 2006 and approximately 93 percent of those students had completed a course sequence that would prepare them for earning an AWS certification.

Resources: Faculty, Staff, etc.

The college indicates the program required one full-time and six part-time faculty, all qualified with various levels of AWS certifications, over five years teaching experience and 125 years of combined professional welding work experience. All facilities and equipment are currently in place to adequately support the program. No new costs have been identified and the program has been supported fiscally through student tuition and fees.

Institutional Completion Rates

Criterion 1050.30(a)(1)(G) provides that success in student progression and graduation, and success rates in programs preparing students for certification and licensure, shall be consistent with expectations in higher education and the appropriate related field of study. At a minimum the Board shall consider these factors based on results for similar institutions. (i) Graduation rates, degree completion rates, retention rates, and pass rates for licensure and certification. (ii) The success rate shall be, at a minimum, higher than those of the lowest quartile of these measures for similar Illinois institutions defined as open versus competitive enrollment institutions, and primarily associate versus primarily baccalaureate granting institutions. Exceptions may be made to the lowest quartile if an institution is above the national average for these measures using the same comparison categories of institutions.

<u>Graduated/Transferred/Enrolled</u>	<u>Group Mean</u>	<u>Group Median</u>	<u>Rank</u>
62.0%	60.6%	60.7%	24/59
<u>Cohort Graduation Rate</u>	<u>Group Mean</u>	<u>Group Median</u>	<u>Rank</u>
14.6%	30.1%	24.3%	47/59
<u>Undergraduate Completions per 100 FTE</u>	<u>Group Mean</u>	<u>Group Median</u>	<u>Rank</u>
20.7%	29.0	25.9	39/59

Note: Because IBHE staff do not review public community college programs, these data are presented for informational purposes only.

Staff Conclusion. Carl Sandburg College and its proposed program meet the criteria to implement the Board of Higher Education Act (110 ILCS 205) as set forth in 23 Ill. Adm. Code 1050.30 and the Illinois Board of Higher Education policies pertaining to assessment accreditation for licensure.

John A. Logan College
700 Logan College Road
Carterville, Illinois 62918
President: Mr. Michael Dreith

Proposed Program Title: Associate in Applied Science in Computer Forensics

Projected Enrollments: John A. Logan College projects an enrollment of 18 full-time and five part-time students the first year, increasing to 28 full-time and 14 part-time students by the third year.

Introduction, Curriculum, and Assessment of Student Learning Outcomes

John A. Logan College is seeking approval to offer a 70 credit hour Associate in Applied Science (A.A.S.) degree in Computer Forensics. The program will prepare individuals for employment as computer forensic specialists in a variety of law enforcement, homeland security, corporate, and private settings. The curriculum includes 15 credit hours of required general education coursework and 55 credit hours of required career and technical education coursework. The career and technical component of the curriculum includes coursework in introductory computers, introductory computer programming, introductory network technologies, operating systems, database management, security awareness, network essentials, wireless networks, managing network environments, A+ essentials and preparation, spreadsheet design, introductory criminal justice, introductory security and security awareness, criminal behavior, criminal law, criminal procedure, and introductory cybercrimes. Assessment of student learning will be achieved through a comprehensive project and case study or an optional work-based learning opportunity. Graduates of the program will be prepared for optional industry Certification in A+ Essentials, A+ Practical, Net+, and Security+ through CompTIA.

Labor Market Information

Labor market information provided by the College supports the interest in and the need for a formalized two-year degree program in this field of study. Local demand for new and existing workers with computer forensics skills has increased, according to employer survey data. Currently, only one neighboring community college district offers a related program and does not meet the existing or projected demand for these skills.

Resources: Faculty, Staff, etc.

Facilities, including classroom and laboratory space, will be shared with existing programs. Two existing full-time faculty and three existing part-time faculty will be required to implement the program. Qualified faculty will hold a minimum of a bachelor's degree in a field related to their specific career and technical discipline, such as networking and criminal justice. No new costs are anticipated to implement the proposed program. The program will be supported through student tuition and fees.

Institutional Completion Rates

Criterion 1050.30(a)(1)(G) provides that success in student progression and graduation, and success rates in programs preparing students for certification and licensure, shall be consistent with expectations in higher education and the appropriate related field of study. At a minimum the Board shall consider these factors based on results for similar institutions. (i) Graduation

rates, degree completion rates, retention rates, and pass rates for licensure and certification. (ii) The success rate shall be, at a minimum, higher than those of the lowest quartile of these measures for similar Illinois institutions defined as open versus competitive enrollment institutions, and primarily associate versus primarily baccalaureate granting institutions. Exceptions may be made to the lowest quartile if an institution is above the national average for these measures using the same comparison categories of institutions.

<u>Graduated/Transferred/Enrolled</u>	<u>Group Mean</u>	<u>Group Median</u>	<u>Rank</u>
61.5%	60.6%	60.7%	26/59
<u>Cohort Graduation Rate</u>	<u>Group Mean</u>	<u>Group Median</u>	<u>Rank</u>
20.0%	30.1%	24.3%	31/59
<u>Undergraduate Completions per 100 FTE</u>	<u>Group Mean</u>	<u>Group Median</u>	<u>Rank</u>
25.6%	29.0	25.9	32/59

Note: Because IBHE staff do not review public community college programs, these data are presented for informational purposes only.

Staff Conclusion. John A. Logan College and its proposed program meet the criteria to implement the Board of Higher Education Act (110 ILCS 205) as set forth in 23 Ill. Adm. Code 1050.30 and the Illinois Board of Higher Education policies pertaining to assessment accreditation for licensure.

Shawnee Community College
8364 Shawnee College Road
Ullin, Illinois 62992
President: Dr. Tim Bellamey

Proposed Program Title: Associate in Applied Science in Heating/Air Conditioning Fabrication

Projected Enrollments: Shawnee Community College projects an enrollment of eight part-time students the first year, increasing to 14 part-time students by the third year.

Introduction, Curriculum, and Assessment of Student Learning Outcomes

Shawnee Community College is seeking approval to offer a 62 credit hour Heating/Air Conditioning Fabrication Associate in Applied Science (A.A.S.) degree. This program will prepare individuals for entry-level employment as HVAC fabrication technicians in the residential setting. The College partnered with their Sheet Metal Laborers Union Local #268 to establish a program that would meet both the needs of local employers throughout the district, as well as the needs of the Local's apprenticeship students. The curriculum consists of 15 credit hours of required general education coursework and 47 credit hours of required career and technical education coursework. The career and technical component of the curriculum includes instruction in basic electricity, electrical controls and circuitry, basic and advanced air conditioning and refrigeration, basic and advanced metal sheet layout, basic and advanced heating, gas welding and cutting, commercial refrigeration, and installation of HVAC systems.

Assessment of student learning objectives will be achieved through a practice ICE test (Industry Competency Exam), including both written and performance-based evaluations.

Labor Market Information

Labor market information provided by the college supports the interest in and the need for a formalized two-year degree training program in this field of study. The college currently offers a related short-term certificate program; however, it does not prepare individuals at the skill level desired by local employer and the Union Local. Currently, neighboring district training programs are at capacity and students within Shawnee’s district must seek training through proprietary institutions outside of their community. According to the Illinois Department of Employment Security (IDES), employment of “heating, A/C and refrigeration mechanics and installers” is expected to increase by 26.5 percent statewide through 2018.

Resources: Faculty, Staff, etc.

The program will require two new part-time faculty, seven existing full-time and four existing part-time faculty the first year. Qualified faculty will hold a minimum of a bachelor’s degree in a related field, construction technology preferred, with at least one year related work experience in the trade, and one year teaching experience. The program will share existing classroom and laboratory space with existing related construction trades programs. Costs to implement the program will be approximately \$10,370 the first year, \$5,170 the second year, and \$300 the third year. Higher costs during the first two years reflect the addition of new part-time faculty and the purchase of updated classroom resource materials. The program will be otherwise supported through student tuition and fees.

Institutional Completion Rates

Criterion 1050.30(a)(1)(G) provides that success in student progression and graduation, and success rates in programs preparing students for certification and licensure, shall be consistent with expectations in higher education and the appropriate related field of study. At a minimum the Board shall consider these factors based on results for similar institutions. (i) Graduation rates, degree completion rates, retention rates, and pass rates for licensure and certification. (ii) The success rate shall be, at a minimum, higher than those of the lowest quartile of these measures for similar Illinois institutions defined as open versus competitive enrollment institutions, and primarily associate versus primarily baccalaureate granting institutions. Exceptions may be made to the lowest quartile if an institution is above the national average for these measures using the same comparison categories of institutions.

<u>Graduated/Transferred/Enrolled</u>	<u>Group Mean</u>	<u>Group Median</u>	<u>Rank</u>
60.5%	60.6%	60.7%	31/59
<u>Cohort Graduation Rate</u>	<u>Group Mean</u>	<u>Group Median</u>	<u>Rank</u>
26.9%	30.1%	24.3%	25/59
<u>Undergraduate Completions per 100 FTE</u>	<u>Group Mean</u>	<u>Group Median</u>	<u>Rank</u>
24.8%	29.0	25.9	35/59

Note: Because IBHE staff do not review public community college programs, these data are presented for informational purposes only.

Staff Conclusion. Shawnee Community College and its proposed program meet the criteria to implement the Board of Higher Education Act (110 ILCS 205) as set forth in 23 Ill. Adm. Code 1050.30 and the Illinois Board of Higher Education policies pertaining to assessment accreditation for licensure.

The staff recommends adoption of the following resolutions:

The Illinois Board of Higher Education hereby grants authority to Carl Sandburg College to offer the Associate in Applied Science (A.A.S.) in Industrial Welding Technology subject to the institution's implementation and maintenance of the conditions that were presented in its application and that form the basis upon which this authorization is granted.

The Illinois Board of Higher Education hereby grants authority to John A. Logan College to offer the Associate in Applied Science (A.A.S.) in Computer Forensics subject to the institution's implementation and maintenance of the conditions that were presented in its application and that form the basis upon which this authorization is granted.

The Illinois Board of Higher Education hereby grants authority to Shawnee Community College to offer the Associate in Applied Science (A.A.S.) in Heating/Air Conditioning Fabrication subject to the institution's implementation and maintenance of the conditions that were presented in its application and that form the basis upon which this authorization is granted.